



Applicant: Medical Research Council
**Title: Crystal Structure of Antibiotics Bound to the
30S Ribosome and Its Use**

UK Priority Application No
0029872.9

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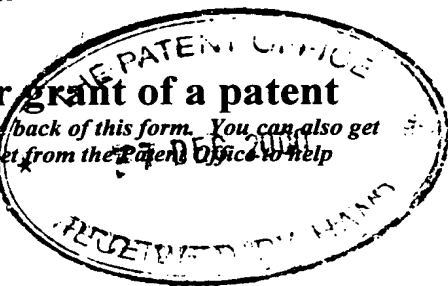
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Patents ADP number (if you know it)

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F01/7700 0.00-0029872.9

If the applicant is a corporate body, give the country/state of its incorporation

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4. Title of the invention

CRYSTAL STRUCTURE (III)

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Country

Priority application number
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Date of filing
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GB

0017376.5

14/07/00

GB

0022943.5

19/09/00

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

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CRYSTAL STRUCTURE (III)

This application claims priority from UK application 0017376.5 filed July 14, 2000, and UK application 0022943.5 filed 19 September 2000, the contents of both of which are incorporated herein by reference.

Field of the Invention

The present invention relates to the provision of a high resolution crystal structure of the antibiotic tetracycline bound to the prokaryotic 30S ribosome subunit, and the use of this structure in drug discovery.

Background of the Invention

Translation of the genetic code occurs on the ribosome, a large nucleoprotein complex that consists of two subunits. In bacteria, the two subunits are denoted 30S and 50S. The 50S subunit contains the catalytic site of peptidyl transferase activity, while the 30S subunit plays a crucial role in decoding messenger RNA. Protein synthesis is a complex, multistep process that requires several extrinsic GTP-hydrolysing protein factors during each of the main stages of initiation, elongation and termination. Despite several decades of work, the molecular details of the process are poorly understood, and the elucidation of the mechanism of translation is one of the fundamental problems in molecular biology today.

An important contribution to this problem was made by Yonath and co-workers, who after nearly a decade of work showed that structures as large as the 50S ribosomal subunit would form

crystals that diffract beyond 3 Å resolution (J. Mol. Biol. 203, 831-834 (1988), Acta Crystallogr A54, 945-55 (1998)). Originally, it was not clear that phase information from such a large asymmetric unit could be obtained to high resolution, but the development of bright, tuneable synchrotron radiation sources, large and accurate area detectors, vastly improved crystallographic computing, and the advent of cryo-crystallography have all contributed to making structural studies of the ribosome more tractable. In our work, the use of anomalous scattering from the LIII edges of lanthanides and osmium has also played a critical role in obtaining phases.

The 30S ribosomal subunit (hereafter referred to as 30S) from *Thermus thermophilus* was originally crystallized by Trakhanov et al. in 2-methyl-2,4-pentanediol (MPD) (FEBS Lett. 220, 319-322 (1987)) and soon afterwards by Yonath and coworkers in a mixture of ethyl-butanol and ethanol. Subsequent work by both groups showed that the MPD crystal form diffracted to about 9-12 Å resolution. The diffraction limit of these crystals did not improve beyond 7 Å resolution for almost a decade, but more recently both Yonath and coworkers and we obtained crystals of the MPD form that exhibit significantly improved diffraction. However, unlike the crystals obtained by the Yonath group, our crystals do not require soaking in tungsten clusters or heat treatment in order to obtain high resolution diffraction.

Last year, we described the structure of the 30S at 5.5 Å resolution (Nature 400, 833-840 (1999)). We were able to place all seven proteins whose structures were known at the time, infer the structure of protein S20 to be a three-helix bundle, trace the fold of an entire domain of 16S RNA, and identify a long RNA helix at the interface that contains the decoding

site of the 30S. Proteins S5 and S7 were also placed in electron density maps of the 30S obtained by Yonath and coworkers.

5 The 30S ribosomal subunit is a major target for antibiotics. The ribosome is a useful target for antibiotics since the structure of the 30S is widely conserved between prokaryotes, allowing for broad spectrum antibiotics. However, resistance to current antibiotics is currently a major problem in the
10 field of medicine. There are presently very few new antibiotics available which can be used to treat the highly resistant strains of bacteria such as MRSA (methicilin resistant *Staphylococcus aureus*) which are becoming increasingly widespread.

15 Understanding the interaction of antibiotics with the ribosome at the molecular level is important for two reasons. Firstly, antibiotics act by interfering with various aspects of ribosome function. Thus understanding their interaction will
20 help shed light on mechanisms involved in translation. Secondly, a detailed knowledge of antibiotic interactions with the ribosome could aid the development of new drugs against increasingly resistant strains of bacteria. Although
25 antibiotics were characterized several decades ago, a detailed knowledge of their mechanism will in general require a three-dimensional structure of their complex with the ribosome.

The low (worse than 3Å resolution) crystal structures described above do not provide sufficiently detailed
30 resolution for useful modelling of the crystal structure of the 30S and there is thus a need for a high resolution structure which can be used usefully in the development of novel therapeutics.

Summary of the Invention

Our earlier co-pending applications GB0017376.5 and
5 GB0022943.5 provide a high resolution crystal structure of the
30S ribosomal subunit, together with the structure of three
antibiotics, paromomycin, streptomycin and spectinomycin bound
to this subunit.

10 The structure of the 30S ribosome is available from the
Research Collaboratory for Structural Bioinformatics (RCSB) at
<http://www.rcsb.org> with the accession code 1FJF. The
antibiotic bound structure is available at the same location
with the accession code 1FJG.

15 We have now continued this work and identified the location
and binding of the antibiotic tetracycline.

In a first aspect, the present invention provides a crystal
20 structure of the *Thermus thermophilus* 30S subunit bound to
tetracycline having a tetragonal space group $P4_12_12$ with unit
cell dimensions of $a = 401.158$, $b = 401.158$, $c = 176.944\text{\AA}$, or
more generally, $a = 401.158 \pm 0.7$, $b = 401.158 \pm 0.7$, $c = 176.944 \pm 0.7$
25 \AA . Such a structure includes the 30S crystal of Table 1. An
advantageous feature of the structure is that it diffracts
beyond 3\AA resolution. Another feature of the structure is
that it was obtained in a method which did not involve the use
of heavy atom clusters or heat activation. Furthermore, it is
specifically of the 885-888/910-912 base pairing confirmation
30 of 16S RNA. These features, both singly and in combination
all contribute to features of the invention which are
advantageous.

The coordinates of Table 1 provides a measure of atomic location in Angstroms, to a third decimal place. In order to use the information in these Tables for the purposes described herein as being aspects of the present invention, these
5 coordinates may be varied by ± 0.7 , preferably no more than ± 0.5 Angstroms, without departing from the scope of the invention. Reference herein to the use of the coordinates of Table 1 thus includes the use of coordinates in which one or more individual values of the Table are adjusted by this
10 amount.

We have also observed that 30S crystals do not contain the S1 subunit protein. In our studies, we have found that by selectively removing this protein prior to crystallization, we
15 have been able to obtain the improved resolution described herein. Although the atomic co-ordinates provided in Table 1 allow those of skill in the art to bypass the need to undertake the crystallization of the 30S, this crystallization method nonetheless forms a further aspect of the invention.

Accordingly, there is provided a method for crystallizing the 30S subunit bound to tetracycline to obtain a high resolution structure of said bound 30S subunit, which method comprises providing a 30S subunit, selectively removing the S1 subunit
25 therefrom (e.g. by hydrophobic interaction chromatography or by gel electrophoresis), crystallizing the 30S and soaking the crystal with tetracycline (e.g. from 10 to 500 μM , preferably 50 to 100 μM , such as about 80 μM). The crystallization conditions may comprises the use of 13-17% methyl-2,4-
30 pentanediol in the presence of 250 mM KCl, 75 mM ammonium chloride, 15 mM MgCl_2 at a pH of 6.5 in sodium cacodylate or MES (2-(N-morpholino)ethane sulphonic acid). In another aspect, the conditions may comprise the use of 250 mM KCl, 75

mM NH₄Cl, 25 mM MgCl₂, 6 mM 2-mercaptoethanol in 0.1 M potassium cacodylate or 0.1 M MES (2-N-morpholinoethanesulfonic acid) at pH 6.5 with 13-17% MPD as the precipitant.

5

Crystals may be grown over a period of 4-8 weeks at about 4°C, prior to soaking in accordance with normal procedures known as such to those of skill in the art. Crystals obtainable by such a method are also a further aspect of the invention.

10

This methodology provides those of skill in the art a means to provide 30S crystals of *T.thermophilus* to which tetracycline is bound. The conservation of ribosome structure, particularly regions of structure essential for function, between prokaryotes, for example prokaryotes which are human pathogens, such as *Staphylococcus* spp, and the like, allows the structure herein to be useful in the provision of antibacterial agents in general.

15

20 The crystals may be grown by any suitable method known as such to those of skill in the art. The structure of the crystals so obtained may be resolved to a resolution of at least 3Å.

Our data in Table 1 indicates that there are two binding sites in the 30S for tetracycline. For the purposes of the present invention, those of skill in the art may chose to discard one of the two sets of coordinates for tetracycline (designated WTE1 and YTE2 in the table), and thus reference to Table 1 includes reference to this table in which one or other of these data sets are omitted.

25

30

Table 1 also includes the coordinates of a number of metal ions. Reference to Table 1 also includes reference to this

table in which some or all of these metal ion coordinates are omitted.

Table 1 also lists the coordinates of a 26 amino acid peptide, Thx (atoms 51571-51779), as well as a 6 nucleotide fragment of mRNA, NNNUCU, designated as molecule X (32392-32508). Both the coordinates of both these molecules may likewise optionally be discarded, i.e. so that the coordinates of the 16S mRNA and the proteins S2 to S20 alone are modelled and used in applications of the invention.

The provision of the high resolution structure of Table 1 provides those of skill in the art with a detailed insight into the mechanisms of action of tetracycline. This insight provides a means to design new antibiotics which have the potential to overcome the mechanisms of resistance found in bacteria.

For example, resistance to tetracycline is usually not caused by mutations in 16S RNA or ribosomal proteins, but by the presence of external protein factors which bind tightly to tetracycline. The structure provided herein allows those of skill in the art to determine how tetracycline binds to the 30S and opens up the possibility of rational drug design in which molecules are developed which retain contacts with the 30S substantially similar to those of tetracycline, but which differ in structure so as to overcome the resistance mechanisms of the bacterial cell.

Accordingly, the invention provides a computer-based method of rational drug design which comprises:

providing the structure of the 30S ribosome as defined by the coordinates of Table 1;

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 30S to provide a result; and

5 comparing said result with a structure comprising the 30S of Table 1 together with at least one tetracycline structure of Table 1.

It will be understood that the phrase "the structure of the
10 30S ribosome as defined by the coordinates of Table 1" as used above and elsewhere herein is reference to the coordinates defined by atoms 1-51779 of Table 1, including or not including the Thx and molecule X coordinates, optionally in conjunction with any or all of the metal ions defined by Table
15 1.

The data of Table 1 indicate that the primary contacts between tetracycline and the 30S are mediated by the 16S RNA. Thus in the above aspect of the invention, those of skill in the art
20 may choose to use the data of Table 1 relating to the 16S RNA and one of the tetracycline molecules in the process of drug design. Accordingly, there is also provided a computer-based method of rational drug design which comprises:

providing the structure of the 16S RNA of the 30S
25 ribosome as defined by the coordinates of Table 1;

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the structure of the 16S RNA of the 30S to provide a result; and

30 comparing said result with a structure comprising the 16S RNA of the 30S of Table 1 together with at least one tetracycline structure of Table 1.

In an alternative aspect, the method of the invention may utilise the coordinates of atoms of interest of the 30S which are in the vicinity of a tetracycline binding region in order to model the pocket in which the tetracycline binds. These
5 coordinates may be used to define a space which is then screened "*in silico*" against a candidate inhibitor molecule. Thus the invention provides a computer-based method of rational drug design which comprises:

providing the coordinates of at least one atom of Table 1
10 of the 30S ribosome;

providing the structure of a candidate inhibitor molecule;

fitting the structure of candidate to the coordinates of the 30S ribosome provided to obtain a result; and

15 comparing said result with a structure comprising the coordinates of the 30S ribosome provided and at least one atom from one tetracycline structure of Table 1.

In this embodiment, the at least one atom of the 30S ribosome
20 provided will preferably be within a distance of 50, preferably 10 Angstroms of at least one of the atoms of either of the tetracycline molecules described in Table 1.

In practice, it will be desirable to model a sufficient number
25 of atoms of the 30S ribosome as defined by the coordinates of Table 1 which represent a binding pocket. Binding pockets and other features of the interaction of tetracycline with the 30S ribosome are described in the accompanying example. Thus, in this embodiment of the invention, there will preferably be
30 provided the coordinates of at least 5, preferably at least 10, more preferably at least 50 and even more preferably at least 100 atoms such as at least 500 atoms of the 30S ribosome. Of these atoms provided, at least one will

preferably be within the distance mentioned above of either of the tetracycline molecules described in Table 1.

Likewise, when a candidate is fitted to the selected
5 coordinates of the 30S ribosome the comparison with tetracycline is preferably made by reference to at least 3, such as at least 5, for example at least 8, more preferably at least 16 of the atoms of either of the tetracycline structures provided in Table 1.

10 In another aspect, the method of the invention may utilise a sub-domain of interest of the 30S which is in the vicinity of a tetracycline binding region. Thus, the invention provides a computer-based method of rational drug design which comprises:

15 providing the coordinates of at least a sub-domain of the 30S ribosome;

providing the structure of a candidate inhibitor molecule;

20 fitting the structure of the candidate to the coordinates of the 30S ribosome sub-domain provided to obtain a result; and

25 comparing said result with a structure comprising the coordinates of the 30S ribosome of same sub-domain provided and at least one atom from the tetracycline structure of Table 1.

A sub-domain may be at least one element of secondary structure of the 30S ribosome including one or more (such as 2, 4, 5 or 10) of the 16S RNA hairpin loops H1-H44 and/or one
30 or more of the ribosomal proteins.

A subdomain also includes a space of volume defining a region around any one particular atom of interest (e.g. an atom

involved in binding to an antibiotic), the volume being less than the total volume of the tetragonal space of the complete crystal. For example, the coordinates of atoms in a volume of from about 500 to about 15,000 Å³ may be selected and used
5 for the present invention. Such a space may be a sphere having a diameter of from about 10Å to about 30Å, centred around a point of interest.

An active site of the 30S is any part of this structure
10 involved in tRNA or mRNA binding, synthesis or translocation, including regions of the complex not directly associated with tRNA or mRNA binding but which are required for the ribosome to function, for example those regions which undergo structural changes associated with protein synthesis or are
15 target sites for regulation by co-factors, phosphorylation or acetylation.

Particular regions of the 30S include those identified herein as antibiotic binding regions based on the data provided in
20 Table 1. Other regions include the three tRNA sites, i.e. the aminoacyl (A), peptidyl (P) and (exit) E sites. Other active sites are those which undergo movement during translocation of tRNAs from the A to P sites and the P to E sites.

25 Regions further include any one of the subunit proteins S2 to S20, including any of the individually identified subunit proteins in the accompanying examples.

There are a few N- or C-terminal sequences of the S2 to S20
30 proteins which were not resolved in the structure of Table 1, together with a some of the 5' and 3' residues of the 16S RNA. These are not essential for the purposes of the present invention.

A candidate inhibitor molecule may be any available compound. A number of commercial sources of libraries of compound structures are available.

5 A candidate inhibitor (including antibiotics and derivatives thereof) of 30S activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al., *Drug Discovery Today*, Vol.3, No.4, (1998), 160-178, and Dunbrack et al., *Folding and*
10 *Design*, 2, (1997), 27-42) to identify potential inhibitors of 30S. This procedure can include computer fitting of potential inhibitors to 30S to ascertain how well the shape and the chemical structure of the potential inhibitor will bind to the ribosome.

15 Also computer-assisted, manual examination of the active site structure of 30S may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 849-857) - a program that determines probable interaction sites between
20 molecules with various functional groups and the enzyme surface - may also be used to analyse the active site to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction,
25 repulsion, and steric hindrance of the two binding partners (e.g. the 30S and a candidate inhibitor). Generally the tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter
30 binding constant. Furthermore, the more specificity in the design of a candidate inhibitor, the more likely it is that it will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted

interactions with other proteins.

In another aspect, in place of *in silico* methods, high throughput screening of compounds to select compounds with
5 ribosome binding activity may be undertaken, and those compounds which show ribosome binding activity may be selected as possible candidate inhibitors, and further crystallized with 30S (e.g. by co-crystallization or by soaking) for x-ray
10 analysis. The resulting x-ray structure may be compared with that of Table 1 for a variety of purposes. For example, where the contacts made by such compounds overlap with those may by tetracycline, novel molecules comprising residues which contain contacts of both tetracycline and the other inhibitor may be provided.

15 Having designed or selected possible binding candidate inhibitors, these can then be screened for activity. Consequently, the method preferably further comprises the further steps of:
20 obtaining or synthesising the candidate inhibitor; and contacting the candidate inhibitor with 30S to determine the ability of the candidate inhibitor to interact with 30S.

More preferably, in latter step the candidate inhibitor is
25 contacted with 30S under conditions to determine its function, for example in a cell free translation system.

Instead of, or in addition to, performing such an assay, the method may comprise the further steps of:
30 obtaining or synthesising said candidate inhibitor;
forming a complex of 30S and said potential inhibitor;
and
analysing said complex by X-ray crystallography to

determine the ability of said candidate inhibitor to interact with 30S. Detailed structural information can then be obtained about the binding of the candidate inhibitor to 30S, and in the light of this information adjustments can be made to the structure or functionality of the potential inhibitor, e.g. to improve binding to the active site. The above steps may be repeated and re-repeated as necessary.

Another aspect of the invention includes a compound which is identified as an inhibitor of 30S by the method of the above aspects of the invention.

In another aspect, the invention provides a method of analysing a 30S-ligand complex comprising the step of employing (i) X-ray crystallographic diffraction data from the 30S-ligand complex and (ii) a three-dimensional structure of 30S, or at least one sub-domain thereof, to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1.

Therefore, 30S-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer et al., *J. of Medicinal Chemistry*, Vol. 37, (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised 30S and the solved structure of uncomplexed 30S. These maps can then be used to determine whether and where a particular ligand binds to 30S and/or changes the conformation of 30S.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative

Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.). For map visualisation and model building programs such as "O" (Jones et al., *Acta Crystallography*, A47, (1991), 110-119) can be used.

The high resolution data provided herein allows those of skill in the art who have obtained structures of worse resolution of the 30S to refine such structures in the light of the data of Table 1. Thus in a further aspect, the invention provides a method for modelling a structure of a 30S ribosome which comprises providing an atomic model of a structure at a resolution of worse than 3Å (e.g. a resolution of worse than 5 Angstroms, such as 5-12 Å), comparing the structure obtained with the data of Table 1, and refining said model obtained to resolve the structure in order to provide a higher resolution structure. Such a process will be useful for the refinement of a 30S itself, or the 30S in various functional states as part of the 70S ribosome (e.g. bound to mRNA, elongation factors or the like).

Such a method will be useful in providing the structure of the 30S ribosome from other bacterial sources, since the overall secondary and tertiary structure of such ribosomes will be highly conserved in comparison to the *T. thermophilus* structure provided herein. The data provided herein may be used to in a process of modelling the 30S of other species *ab initio* by homology modelling using energy minimization criteria.

In a further aspect, the present invention provides computer readable media with either (a) atomic coordinate data according to Table 1 recorded thereon, said data defining the

three-dimensional structure of 30S, at least one atom or at least one sub-domain thereof, or (b) structure factor data for 30S recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table 1.

5

As used herein, "computer readable media" refers to any media which can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

10

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model 30S, or at least one atom or a sub-domain thereof. For example, RASMOL is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

15

20

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell et al., in *Protein Crystallography*, Academic Press, New York, London and San Francisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

25

In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for 30S or 30S ligand complexes, the systems containing either (a) atomic coordinate data according to Table 1, said data defining the three-dimensional structure of 30S, at least one atom or at least one sub-domain thereof, or (b) structure factor data for

30

30S, said structure factor data being derivable from the atomic coordinate data of Table 1.

Examples of such systems are microcomputer workstations
5 available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

As used herein, "a computer system" refers to the hardware
10 means, software means and data storage means used to analyse the atomic coordinate data of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a
15 monitor is provided to visualise structure data. The data storage means may be RAM or means for accessing computer readable media of the invention.

The present high resolution structure of 30S provides a means
20 to address the problems of antibiotic resistance in prokaryotes which are resistant to antibiotics known to act on the 30S, including tetracycline. Although much tetracycline resistance arises via mechanisms other than 30S mutations, where a mutant strain resistant to the action of this
25 antibiotic does arise through mutation of a protein subunit of the 30S or through mutation in the 16S RNA, the sites of mutations can be identified. Where such sites are identified through, for example, primary sequence data, the invention provides a means to model the structure of the mutants.

30 The invention therefore allows an understanding of the reasons for mutations giving rise to antibiotic resistance and a means to design novel structures which may be useful in overcoming

such resistance.

There is thus provided a method which comprises providing the structure of the 30S ribosome of Table 1, changing one amino
5 acid or nucleotide of said structure to provide a mutant 30S, and modelling the structure of the mutant 30S to provide a structure of the mutant. The mutant may be used in the manner described above for the wild type, e.g. stored in computer readable form, modelled to provide ligands, and the like. The
10 modelling may be based upon the predicted behaviour of the atoms of the changed amino acid based upon its interaction with the surrounding atoms in the model provided herein.

This process may be iterative, e.g. to produce successive
15 mutations into the 30S structure, for example 2, 3, 4, or 5 to 10 mutations.

Regions of 30S which may be subject to this aspect of the invention include those regions identified in the accompanying
20 examples as regions of the 30S involved in ribosome function or in resistance to antibiotics.

The following example illustrates the invention:

Tetracyclines are antibiotics of broad specificity and have been used since the 1940's against a wide range of both Gram-negative and Gram-positive bacteria (1). These drugs were the first so-called 'broad-spectrum' antibiotics and have been used extensively in both human and veterinary medicine. However, in later years, the widespread use of tetracyclines has been limited by the emergence of significant microbial resistance to these antibiotics. Tetracyclines bind to the 30S ribosomal subunit (2) where it affects exclusively the binding of

aminoacylated tRNA to the A-site (3). There is no effect on the binding of tRNA to the P-site nor on the fidelity of translation (4). Consistent with the inhibition of tRNA binding to the A-site during translation, tetracycline also prevents binding of both release factors RF-1 and 2 during termination, regardless of the stop codon (5). In contrast to most antibiotics, resistance to tetracycline is usually not caused by mutations in 16S RNA or ribosomal proteins, but by the presence of several external protein factors which apparently mimic the structure and function of the elongation factors (6-8).

The crystal structure of tetracycline, or 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-2-naphacenecarboxamide, in complex with the 30S ribosomal subunit was determined at 3.0Å resolution. 30S crystals were prepared as described (9, 10), and soaked post crystallisation in 80µM tetracycline. X-ray diffraction data were collected at beamline ID14-4 at the European Synchrotron Radiation Facility in Grenoble, France. The location of the antibiotic within the 30S subunit was identified from difference Fourier maps calculated after a few rounds of maximum-likelihood based refinement of the native 30S structure (10) against the measured structure factor amplitudes.

We have found two strong binding sites for tetracycline within the 30S subunit, one located near the acceptor site for aminoacylated tRNA (the A-site) between the head and the body and another which is present at the interface between three domains in the body of the subunit. The discovery of more binding sites is not surprising, since tetracycline is known to have one primary binding site on the 30S in addition to multiple secondary sites on both subunits (11). In its primary binding site within the 30S, tetracycline binds exclusively to the 3' major domain in the upper part of the crevice between the head

of the 30S and the shoulder and right above the small gap between the stem-loop of H18 of the 5' domain and the long H44 of the 3' minor domain that constitutes the binding site for aminoacylated tRNA. The molecule fits into a small pocket created by residues in H34 that deviate from the canonical A-form RNA double helical conformation in combination with a part of the small H31 stem-loop structure. The contacts to H31 are quite tenuous, however, and the binding of the antibiotic to 16S RNA seems to depend almost exclusively on the interaction with H34. In contrast to what has been proposed earlier, there are no proteins involved in the primary binding of tetracycline. The second binding site of tetracycline that we observe clearly in the difference maps (although perhaps not as clearly as the primary binding site), is located in the body of the subunit, in close proximity to the penultimate H44 and sandwiched between the functionally important H27 in the central domain and the very top of H11 in the 5' domain of 16S RNA. The binding site is confined on one side by a major groove of H27 (residues 891-894:908-911) and the edge of the curved H11 (residues 242-245). The bulged-out base U244, which reaches across and makes a non Watson-Crick bases pair with C893 in H27 forms the bottom of the binding site. Again, all interaction between the antibiotic and the ribosome is mediated by the RNA, however, the long N-terminal extension of S12 comes very close to the tetracycline (~ 8Å, Arg19). The binding pocket is approximately 14Å wide and 7Å deep.

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CRYSTAL STRUCTURE (III)

CRYST1	401.158	401.158	176.944	90.00	90.00	90.00	P	41	21	2	1
ORIGX1	1.000000	0.000000	0.000000			0.000000					
ORIGX2	0.000000	1.000000	0.000000			0.000000					
ORIGX3	0.000000	0.000000	1.000000			0.000000					
SCALE1	0.002493	0.000000	0.000000			0.000000					
SCALE2	0.000000	0.002493	0.000000			0.000000					
SCALE3	0.000000	0.000000	0.005652			0.000000					
ATOM	1	O5* U	A	5	133.703	110.544	1.677	1.00	54.94		A16S
ATOM	2	C5* U	A	5	133.720	109.740	2.884	1.00	54.94		A16S
ATOM	3	C4* U	A	5	134.890	109.995	3.834	1.00	54.94		A16S
ATOM	4	O4* U	A	5	134.864	111.377	4.254	1.00	54.94		A16S
ATOM	5	C1* U	A	5	135.458	111.495	5.530	1.00	54.94		A16S
ATOM	6	N1 U	A	5	134.790	112.563	6.297	1.00	77.09		A16S
ATOM	7	C6 U	A	5	133.950	113.456	5.655	1.00	77.09		A16S
ATOM	8	C2 U	A	5	135.048	112.687	7.660	1.00	77.09		A16S
ATOM	9	O2 U	A	5	135.740	111.897	8.291	1.00	77.09		A16S
ATOM	10	N3 U	A	5	134.451	113.775	8.258	1.00	77.09		A16S
ATOM	11	C4 U	A	5	133.627	114.721	7.653	1.00	77.09		A16S
ATOM	12	O4 U	A	5	133.206	115.679	8.309	1.00	77.09		A16S
ATOM	13	C5 U	A	5	133.382	114.496	6.269	1.00	77.09		A16S
ATOM	14	C2* U	A	5	135.674	110.103	6.134	1.00	54.94		A16S
ATOM	15	O2* U	A	5	137.071	109.981	6.215	1.00	54.94		A16S
ATOM	16	C3* U	A	5	134.961	109.173	5.131	1.00	54.94		A16S
ATOM	17	O3* U	A	5	135.546	107.859	4.815	1.00	54.94		A16S
ATOM	18	P G	A	6	136.870	107.259	5.582	1.00	61.86		A16S
ATOM	19	O1P G	A	6	136.876	105.843	5.123	1.00	53.88		A16S
ATOM	20	O2P G	A	6	136.957	107.543	7.054	1.00	53.88		A16S
ATOM	21	O5* G	A	6	138.137	107.924	4.862	1.00	61.86		A16S
ATOM	22	C5* G	A	6	138.881	107.180	3.866	1.00	61.86		A16S
ATOM	23	C4* G	A	6	139.859	108.064	3.110	1.00	61.86		A16S
ATOM	24	O4* G	A	6	139.163	109.149	2.457	1.00	61.86		A16S
ATOM	25	C1* G	A	6	140.077	110.189	2.211	1.00	61.86		A16S
ATOM	26	N9 G	A	6	139.441	111.477	2.471	1.00	53.88		A16S
ATOM	27	C4 G	A	6	139.255	112.142	3.671	1.00	53.88		A16S
ATOM	28	N3 G	A	6	139.640	111.726	4.890	1.00	53.88		A16S
ATOM	29	C2 G	A	6	139.302	112.593	5.836	1.00	53.88		A16S
ATOM	30	N2 G	A	6	139.578	112.339	7.110	1.00	53.88		A16S
ATOM	31	N1 G	A	6	138.661	113.770	5.606	1.00	53.88		A16S
ATOM	32	C6 G	A	6	138.263	114.223	4.362	1.00	53.88		A16S
ATOM	33	O6 G	A	6	137.689	115.313	4.257	1.00	53.88		A16S
ATOM	34	C5 G	A	6	138.600	113.305	3.340	1.00	53.88		A16S
ATOM	35	N7 G	A	6	138.385	113.378	1.975	1.00	53.88		A16S
ATOM	36	C8 G	A	6	138.897	112.277	1.504	1.00	53.88		A16S
ATOM	37	C2* G	A	6	141.404	109.853	2.891	1.00	61.86		A16S
ATOM	38	O2* G	A	6	142.253	109.337	1.890	1.00	61.86		A16S
ATOM	39	C3* G	A	6	141.004	108.740	3.856	1.00	61.86		A16S
ATOM	40	O3* G	A	6	142.080	107.807	4.027	1.00	61.86		A16S
ATOM	41	P G	A	7	143.517	108.296	4.599	1.00	48.75		A16S
ATOM	42	O1P G	A	7	143.368	109.527	5.427	1.00	50.71		A16S
ATOM	43	O2P G	A	7	144.163	107.095	5.206	1.00	50.71		A16S
ATOM	44	O5* G	A	7	144.325	108.679	3.275	1.00	48.75		A16S
ATOM	45	C5* G	A	7	144.963	107.647	2.476	1.00	48.75		A16S
ATOM	46	C4* G	A	7	146.078	108.228	1.633	1.00	48.75		A16S
ATOM	47	O4* G	A	7	145.630	108.515	0.288	1.00	48.75		A16S
ATOM	48	C1* G	A	7	146.215	109.714	-0.160	1.00	48.75		A16S
ATOM	49	N9 G	A	7	145.277	110.327	-1.083	1.00	50.71		A16S
ATOM	50	C4 G	A	7	145.480	110.574	-2.416	1.00	50.71		A16S
ATOM	51	N3 G	A	7	146.607	110.319	-3.106	1.00	50.71		A16S
ATOM	52	C2 G	A	7	146.479	110.624	-4.386	1.00	50.71		A16S
ATOM	53	N2 G	A	7	147.483	110.389	-5.233	1.00	50.71		A16S
ATOM	54	N1 G	A	7	145.352	111.166	-4.939	1.00	50.71		A16S
ATOM	55	C6 G	A	7	144.179	111.438	-4.248	1.00	50.71		A16S
ATOM	56	O6 G	A	7	143.200	111.910	-4.852	1.00	50.71		A16S
ATOM	57	C5 G	A	7	144.296	111.099	-2.874	1.00	50.71		A16S
ATOM	58	N7 G	A	7	143.375	111.204	-1.844	1.00	50.71		A16S
ATOM	59	C8 G	A	7	144.005	110.742	-0.801	1.00	50.71		A16S
ATOM	60	C2* G	A	7	146.467	110.563	1.078	1.00	48.75		A16S
ATOM	61	O2* G	A	7	147.558	111.401	0.818	1.00	48.75		A16S
ATOM	62	C3* G	A	7	146.736	109.498	2.135	1.00	48.75		A16S
ATOM	63	O3* G	A	7	147.878	109.431	3.004	1.00	48.75		A16S
ATOM	64	P A	A	8	149.303	108.883	2.474	1.00	46.45		A16S
ATOM	65	O1P A	A	8	149.352	108.968	0.997	1.00	54.66		A16S
ATOM	66	O2P A	A	8	149.534	107.574	3.131	1.00	54.66		A16S
ATOM	67	O5* A	A	8	150.359	109.896	3.109	1.00	46.45		A16S
ATOM	68	C5* A	A	8	150.582	111.182	2.524	1.00	46.45		A16S
ATOM	69	C4* A	A	8	151.981	111.638	2.822	1.00	46.45		A16S
ATOM	70	O4* A	A	8	152.075	112.047	4.211	1.00	46.45		A16S

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ATOM	71	C1*	A	A	8	153.129	111.353	4.834	1.00	46.45	A16S
ATOM	72	N9	A	A	8	152.766	111.116	6.225	1.00	54.66	A16S
ATOM	73	C4	A	A	8	153.623	111.169	7.292	1.00	54.66	A16S
ATOM	74	N3	A	A	8	154.939	111.405	7.263	1.00	54.66	A16S
ATOM	75	C2	A	A	8	155.443	111.390	8.496	1.00	54.66	A16S
ATOM	76	N1	A	A	8	154.829	111.189	9.657	1.00	54.66	A16S
ATOM	77	C6	A	A	8	153.503	110.973	9.645	1.00	54.66	A16S
ATOM	78	N6	A	A	8	152.878	110.814	10.804	1.00	54.66	A16S
ATOM	79	C5	A	A	8	152.854	110.944	8.408	1.00	54.66	A16S
ATOM	80	N7	A	A	8	151.533	110.729	8.057	1.00	54.66	A16S
ATOM	81	C8	A	A	8	151.537	110.832	6.749	1.00	54.66	A16S
ATOM	82	C2*	A	A	8	153.354	110.090	4.011	1.00	46.45	A16S
ATOM	83	O2*	A	A	8	154.683	109.644	4.155	1.00	46.45	A16S
ATOM	84	C3*	A	A	8	153.061	110.583	2.598	1.00	46.45	A16S
ATOM	85	O3*	A	A	8	154.234	111.181	2.038	1.00	46.45	A16S
ATOM	86	P	G	A	9	154.469	111.128	0.448	1.00	35.62	A16S
ATOM	87	O1P	G	A	9	154.175	112.485	-0.108	1.00	42.73	A16S
ATOM	88	O2P	G	A	9	153.752	109.948	-0.083	1.00	42.73	A16S
ATOM	89	O5*	G	A	9	156.014	110.813	0.286	1.00	35.62	A16S
ATOM	90	C5*	G	A	9	156.989	111.696	0.815	1.00	35.62	A16S
ATOM	91	C4*	G	A	9	157.559	111.116	2.075	1.00	35.62	A16S
ATOM	92	O4*	G	A	9	156.838	109.910	2.440	1.00	35.62	A16S
ATOM	93	C1*	G	A	9	157.735	108.973	3.013	1.00	35.62	A16S
ATOM	94	N9	G	A	9	157.795	107.808	2.131	1.00	42.73	A16S
ATOM	95	C4	G	A	9	158.573	106.688	2.303	1.00	42.73	A16S
ATOM	96	N3	G	A	9	159.399	106.452	3.335	1.00	42.73	A16S
ATOM	97	C2	G	A	9	160.020	105.300	3.205	1.00	42.73	A16S
ATOM	98	N2	G	A	9	160.880	104.910	4.140	1.00	42.73	A16S
ATOM	99	N1	G	A	9	159.845	104.451	2.147	1.00	42.73	A16S
ATOM	100	C6	G	A	9	159.009	104.690	1.067	1.00	42.73	A16S
ATOM	101	O6	G	A	9	158.943	103.883	0.147	1.00	42.73	A16S
ATOM	102	C5	G	A	9	158.335	105.903	1.196	1.00	42.73	A16S
ATOM	103	N7	G	A	9	157.415	106.502	0.353	1.00	42.73	A16S
ATOM	104	C8	G	A	9	157.115	107.624	0.950	1.00	42.73	A16S
ATOM	105	C2*	G	A	9	159.094	109.666	3.115	1.00	35.62	A16S
ATOM	106	O2*	G	A	9	159.163	110.336	4.357	1.00	35.62	A16S
ATOM	107	C3*	G	A	9	159.000	110.670	1.982	1.00	35.62	A16S
ATOM	108	O3*	G	A	9	159.863	111.771	2.152	1.00	35.62	A16S
ATOM	109	P	A	A	10	161.165	111.898	1.223	1.00	44.85	A16S
ATOM	110	O1P	A	A	10	161.593	113.331	1.305	1.00	52.65	A16S
ATOM	111	O2P	A	A	10	160.870	111.295	-0.124	1.00	52.65	A16S
ATOM	112	O5*	A	A	10	162.211	110.971	1.996	1.00	44.85	A16S
ATOM	113	C5*	A	A	10	162.485	111.192	3.396	1.00	44.85	A16S
ATOM	114	C4*	A	A	10	163.223	110.013	4.007	1.00	44.85	A16S
ATOM	115	O4*	A	A	10	162.381	108.829	3.975	1.00	44.85	A16S
ATOM	116	C1*	A	A	10	163.179	107.677	3.768	1.00	44.85	A16S
ATOM	117	N9	A	A	10	162.776	107.091	2.490	1.00	52.65	A16S
ATOM	118	C4	A	A	10	163.025	105.820	2.038	1.00	52.65	A16S
ATOM	119	N3	A	A	10	163.670	104.834	2.683	1.00	52.65	A16S
ATOM	120	C2	A	A	10	163.716	103.735	1.925	1.00	52.65	A16S
ATOM	121	N1	A	A	10	163.230	103.529	0.691	1.00	52.65	A16S
ATOM	122	C6	A	A	10	162.590	104.547	0.078	1.00	52.65	A16S
ATOM	123	N6	A	A	10	162.108	104.357	-1.150	1.00	52.65	A16S
ATOM	124	C5	A	A	10	162.469	105.755	0.771	1.00	52.65	A16S
ATOM	125	N7	A	A	10	161.868	106.955	0.436	1.00	52.65	A16S
ATOM	126	C8	A	A	10	162.077	107.712	1.484	1.00	52.65	A16S
ATOM	127	C2*	A	A	10	164.643	108.130	3.769	1.00	44.85	A16S
ATOM	128	O2*	A	A	10	165.192	108.021	5.067	1.00	44.85	A16S
ATOM	129	C3*	A	A	10	164.518	109.585	3.343	1.00	44.85	A16S
ATOM	130	O3*	A	A	10	165.630	110.348	3.780	1.00	44.85	A16S
ATOM	131	P	G	A	11	166.883	110.554	2.787	1.00	41.23	A16S
ATOM	132	O1P	G	A	11	167.793	111.557	3.427	1.00	49.01	A16S
ATOM	133	O2P	G	A	11	166.361	110.798	1.414	1.00	49.01	A16S
ATOM	134	O5*	G	A	11	167.612	109.137	2.782	1.00	41.23	A16S
ATOM	135	C5*	G	A	11	168.187	108.624	3.993	1.00	41.23	A16S
ATOM	136	C4*	G	A	11	168.767	107.252	3.773	1.00	41.23	A16S
ATOM	137	O4*	G	A	11	167.701	106.313	3.496	1.00	41.23	A16S
ATOM	138	C1*	G	A	11	168.166	105.324	2.588	1.00	41.23	A16S
ATOM	139	N9	G	A	11	167.369	105.411	1.369	1.00	49.01	A16S
ATOM	140	C4	G	A	11	167.201	104.427	0.429	1.00	49.01	A16S
ATOM	141	N3	G	A	11	167.748	103.194	0.466	1.00	49.01	A16S
ATOM	142	C2	G	A	11	167.374	102.450	-0.574	1.00	49.01	A16S
ATOM	143	N2	G	A	11	167.808	101.174	-0.681	1.00	49.01	A16S
ATOM	144	N1	G	A	11	166.543	102.898	-1.580	1.00	49.01	A16S
ATOM	145	C6	G	A	11	165.978	104.173	-1.646	1.00	49.01	A16S
ATOM	146	O6	G	A	11	165.248	104.486	-2.610	1.00	49.01	A16S
ATOM	147	C5	G	A	11	166.358	104.970	-0.522	1.00	49.01	A16S

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ATOM	148	N7	G	A	11	166.010	106.271	-0.187	1.00	49.01	A16S
ATOM	149	C8	G	A	11	166.636	106.491	0.936	1.00	49.01	A16S
ATOM	150	C2*	G	A	11	169.644	105.607	2.327	1.00	41.23	A16S
ATOM	151	O2*	G	A	11	170.423	104.909	3.272	1.00	41.23	A16S
ATOM	152	C3*	G	A	11	169.714	107.095	2.598	1.00	41.23	A16S
ATOM	153	O3*	G	A	11	171.031	107.527	2.870	1.00	41.23	A16S
ATOM	154	P	U	A	12	171.765	108.481	1.800	1.00	48.07	A16S
ATOM	155	O1P	U	A	12	172.926	109.126	2.452	1.00	50.50	A16S
ATOM	156	O2P	U	A	12	170.735	109.330	1.119	1.00	50.50	A16S
ATOM	157	O5*	U	A	12	172.310	107.459	0.708	1.00	48.07	A16S
ATOM	158	C5*	U	A	12	173.081	106.310	1.094	1.00	48.07	A16S
ATOM	159	C4*	U	A	12	173.076	105.274	-0.009	1.00	48.07	A16S
ATOM	160	O4*	U	A	12	171.773	104.635	-0.111	1.00	48.07	A16S
ATOM	161	C1*	U	A	12	171.536	104.246	-1.448	1.00	48.07	A16S
ATOM	162	N1	U	A	12	170.310	104.898	-1.937	1.00	50.50	A16S
ATOM	163	C6	U	A	12	169.910	106.127	-1.472	1.00	50.50	A16S
ATOM	164	C2	U	A	12	169.585	104.247	-2.925	1.00	50.50	A16S
ATOM	165	O2	U	A	12	169.846	103.114	-3.307	1.00	50.50	A16S
ATOM	166	N3	U	A	12	168.533	104.965	-3.440	1.00	50.50	A16S
ATOM	167	C4	U	A	12	168.117	106.222	-3.062	1.00	50.50	A16S
ATOM	168	O4	U	A	12	167.252	106.805	-3.733	1.00	50.50	A16S
ATOM	169	C5	U	A	12	168.866	106.790	-1.983	1.00	50.50	A16S
ATOM	170	C2*	U	A	12	172.761	104.654	-2.264	1.00	48.07	A16S
ATOM	171	O2*	U	A	12	173.614	103.537	-2.309	1.00	48.07	A16S
ATOM	172	C3*	U	A	12	173.355	105.773	-1.413	1.00	48.07	A16S
ATOM	173	O3*	U	A	12	174.751	105.977	-1.639	1.00	48.07	A16S
ATOM	174	P	U	A	13	175.236	107.218	-2.555	1.00	46.36	A16S
ATOM	175	O1P	U	A	13	176.400	107.887	-1.902	1.00	44.52	A16S
ATOM	176	O2P	U	A	13	174.047	108.030	-2.944	1.00	44.52	A16S
ATOM	177	O5*	U	A	13	175.797	106.530	-3.878	1.00	46.36	A16S
ATOM	178	C5*	U	A	13	174.911	106.122	-4.930	1.00	46.36	A16S
ATOM	179	C4*	U	A	13	175.704	105.703	-6.139	1.00	46.36	A16S
ATOM	180	O4*	U	A	13	174.787	105.172	-7.139	1.00	46.36	A16S
ATOM	181	C1*	U	A	13	174.989	105.848	-8.362	1.00	46.36	A16S
ATOM	182	N1	U	A	13	173.720	105.886	-9.105	1.00	44.52	A16S
ATOM	183	C6	U	A	13	172.871	106.952	-9.023	1.00	44.52	A16S
ATOM	184	C2	U	A	13	173.409	104.797	-9.900	1.00	44.52	A16S
ATOM	185	O2	U	A	13	174.136	103.827	-10.007	1.00	44.52	A16S
ATOM	186	N3	U	A	13	172.216	104.881	-10.569	1.00	44.52	A16S
ATOM	187	C4	U	A	13	171.317	105.926	-10.531	1.00	44.52	A16S
ATOM	188	O4	U	A	13	170.293	105.884	-11.225	1.00	44.52	A16S
ATOM	189	C5	U	A	13	171.712	107.010	-9.688	1.00	44.52	A16S
ATOM	190	C2*	U	A	13	175.614	107.196	-8.000	1.00	46.36	A16S
ATOM	191	O2*	U	A	13	176.305	107.714	-9.113	1.00	46.36	A16S
ATOM	192	C3*	U	A	13	176.503	106.820	-6.812	1.00	46.36	A16S
ATOM	193	O3*	U	A	13	177.751	106.297	-7.275	1.00	46.36	A16S
ATOM	194	P	U	A	14	179.117	106.593	-6.457	1.00	40.99	A16S
ATOM	195	O1P	U	A	14	180.163	105.744	-7.093	1.00	64.16	A16S
ATOM	196	O2P	U	A	14	178.869	106.468	-4.987	1.00	64.16	A16S
ATOM	197	O5*	U	A	14	179.480	108.110	-6.804	1.00	40.99	A16S
ATOM	198	C5*	U	A	14	179.902	108.450	-8.123	1.00	40.99	A16S
ATOM	199	C4*	U	A	14	179.958	109.943	-8.311	1.00	40.99	A16S
ATOM	200	O4*	U	A	14	178.631	110.515	-8.287	1.00	40.99	A16S
ATOM	201	C1*	U	A	14	178.705	111.845	-7.800	1.00	40.99	A16S
ATOM	202	N1	U	A	14	177.907	111.947	-6.569	1.00	64.16	A16S
ATOM	203	C6	U	A	14	177.548	110.838	-5.838	1.00	64.16	A16S
ATOM	204	C2	U	A	14	177.559	113.203	-6.155	1.00	64.16	A16S
ATOM	205	O2	U	A	14	177.822	114.203	-6.803	1.00	64.16	A16S
ATOM	206	N3	U	A	14	176.893	113.250	-4.956	1.00	64.16	A16S
ATOM	207	C4	U	A	14	176.538	112.186	-4.156	1.00	64.16	A16S
ATOM	208	O4	U	A	14	176.051	112.398	-3.042	1.00	64.16	A16S
ATOM	209	C5	U	A	14	176.893	110.914	-4.678	1.00	64.16	A16S
ATOM	210	C2*	U	A	14	180.178	112.162	-7.512	1.00	40.99	A16S
ATOM	211	O2*	U	A	14	180.763	112.853	-8.606	1.00	40.99	A16S
ATOM	212	C3*	U	A	14	180.765	110.767	-7.319	1.00	40.99	A16S
ATOM	213	O3*	U	A	14	182.151	110.770	-7.659	1.00	40.99	A16S
ATOM	214	P	G	A	15	183.257	110.592	-6.508	1.00	41.46	A16S
ATOM	215	O1P	G	A	15	184.542	110.299	-7.189	1.00	42.18	A16S
ATOM	216	O2P	G	A	15	182.725	109.627	-5.496	1.00	42.18	A16S
ATOM	217	O5*	G	A	15	183.358	112.044	-5.860	1.00	41.46	A16S
ATOM	218	C5*	G	A	15	184.017	112.240	-4.600	1.00	41.46	A16S
ATOM	219	C4*	G	A	15	183.979	113.695	-4.223	1.00	41.46	A16S
ATOM	220	O4*	G	A	15	184.783	114.464	-5.153	1.00	41.46	A16S
ATOM	221	C1*	G	A	15	184.145	115.699	-5.438	1.00	41.46	A16S
ATOM	222	N9	G	A	15	183.829	115.713	-6.863	1.00	42.18	A16S
ATOM	223	C4	G	A	15	183.284	116.748	-7.587	1.00	42.18	A16S
ATOM	224	N3	G	A	15	182.926	117.953	-7.105	1.00	42.18	A16S

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ATOM	225	C2	G	A	15	182.437	118.734	-8.058	1.00	42.18	A16S
ATOM	226	N2	G	A	15	182.041	119.982	-7.770	1.00	42.18	A16S
ATOM	227	N1	G	A	15	182.299	118.358	-9.368	1.00	42.18	A16S
ATOM	228	C6	G	A	15	182.647	117.118	-9.881	1.00	42.18	A16S
ATOM	229	O6	G	A	15	182.454	116.867	-11.080	1.00	42.18	A16S
ATOM	230	C5	G	A	15	183.189	116.276	-8.881	1.00	42.18	A16S
ATOM	231	N7	G	A	15	183.663	114.974	-8.970	1.00	42.18	A16S
ATOM	232	C8	G	A	15	184.027	114.681	-7.754	1.00	42.18	A16S
ATOM	233	C2*	G	A	15	182.921	115.796	-4.528	1.00	41.46	A16S
ATOM	234	O2*	G	A	15	183.323	116.444	-3.334	1.00	41.46	A16S
ATOM	235	C3*	G	A	15	182.602	114.324	-4.291	1.00	41.46	A16S
ATOM	236	O3*	G	A	15	181.891	114.073	-3.088	1.00	41.46	A16S
ATOM	237	P	A	A	16	180.365	113.569	-3.160	1.00	34.95	A16S
ATOM	238	O1P	A	A	16	180.023	113.212	-1.759	1.00	44.55	A16S
ATOM	239	O2P	A	A	16	180.199	112.536	-4.231	1.00	44.55	A16S
ATOM	240	O5*	A	A	16	179.564	114.885	-3.589	1.00	34.95	A16S
ATOM	241	C5*	A	A	16	179.492	116.005	-2.692	1.00	34.95	A16S
ATOM	242	C4*	A	A	16	178.997	117.244	-3.397	1.00	34.95	A16S
ATOM	243	O4*	A	A	16	179.930	117.635	-4.429	1.00	34.95	A16S
ATOM	244	C1*	A	A	16	179.231	118.252	-5.493	1.00	34.95	A16S
ATOM	245	N9	A	A	16	179.405	117.437	-6.691	1.00	44.55	A16S
ATOM	246	C4	A	A	16	179.052	117.803	-7.963	1.00	44.55	A16S
ATOM	247	N3	A	A	16	178.515	118.968	-8.350	1.00	44.55	A16S
ATOM	248	C2	A	A	16	178.298	118.967	-9.654	1.00	44.55	A16S
ATOM	249	N1	A	A	16	178.538	118.003	-10.553	1.00	44.55	A16S
ATOM	250	C6	A	A	16	179.074	116.845	-10.130	1.00	44.55	A16S
ATOM	251	N6	A	A	16	179.309	115.888	-11.025	1.00	44.55	A16S
ATOM	252	C5	A	A	16	179.352	116.720	-8.763	1.00	44.55	A16S
ATOM	253	N7	A	A	16	179.892	115.687	-8.009	1.00	44.55	A16S
ATOM	254	C8	A	A	16	179.911	116.166	-6.792	1.00	44.55	A16S
ATOM	255	C2*	A	A	16	177.759	118.311	-5.098	1.00	34.95	A16S
ATOM	256	O2*	A	A	16	177.498	119.559	-4.488	1.00	34.95	A16S
ATOM	257	C3*	A	A	16	177.663	117.161	-4.111	1.00	34.95	A16S
ATOM	258	O3*	A	A	16	176.592	117.366	-3.222	1.00	34.95	A16S
ATOM	259	P	U	A	17	175.157	116.762	-3.571	1.00	37.26	A16S
ATOM	260	O1P	U	A	17	174.227	117.370	-2.580	1.00	43.33	A16S
ATOM	261	O2P	U	A	17	175.288	115.275	-3.648	1.00	43.33	A16S
ATOM	262	O5*	U	A	17	174.812	117.372	-5.003	1.00	37.26	A16S
ATOM	263	C5*	U	A	17	174.644	118.776	-5.140	1.00	37.26	A16S
ATOM	264	C4*	U	A	17	174.006	119.123	-6.455	1.00	37.26	A16S
ATOM	265	O4*	U	A	17	174.947	118.975	-7.544	1.00	37.26	A16S
ATOM	266	C1*	U	A	17	174.242	118.649	-8.732	1.00	37.26	A16S
ATOM	267	N1	U	A	17	174.727	117.355	-9.251	1.00	43.33	A16S
ATOM	268	C6	U	A	17	175.413	116.476	-8.454	1.00	43.33	A16S
ATOM	269	C2	U	A	17	174.474	117.045	-10.582	1.00	43.33	A16S
ATOM	270	O2	U	A	17	173.853	117.779	-11.332	1.00	43.33	A16S
ATOM	271	N3	U	A	17	174.967	115.838	-10.999	1.00	43.33	A16S
ATOM	272	C4	U	A	17	175.652	114.924	-10.247	1.00	43.33	A16S
ATOM	273	O4	U	A	17	175.946	113.842	-10.737	1.00	43.33	A16S
ATOM	274	C5	U	A	17	175.870	115.306	-8.896	1.00	43.33	A16S
ATOM	275	C2*	U	A	17	172.756	118.629	-8.381	1.00	37.26	A16S
ATOM	276	O2*	U	A	17	172.251	119.929	-8.618	1.00	37.26	A16S
ATOM	277	C3*	U	A	17	172.796	118.325	-6.891	1.00	37.26	A16S
ATOM	278	O3*	U	A	17	171.613	118.744	-6.236	1.00	37.26	A16S
ATOM	279	P	C	A	18	170.372	117.722	-6.104	1.00	35.26	A16S
ATOM	280	O1P	C	A	18	169.412	118.433	-5.218	1.00	33.25	A16S
ATOM	281	O2P	C	A	18	170.829	116.344	-5.738	1.00	33.25	A16S
ATOM	282	O5*	C	A	18	169.751	117.686	-7.565	1.00	35.26	A16S
ATOM	283	C5*	C	A	18	169.039	118.818	-8.045	1.00	35.26	A16S
ATOM	284	C4*	C	A	18	168.696	118.642	-9.487	1.00	35.26	A16S
ATOM	285	O4*	C	A	18	169.915	118.603	-10.269	1.00	35.26	A16S
ATOM	286	C1*	C	A	18	169.760	117.699	-11.354	1.00	35.26	A16S
ATOM	287	N1	C	A	18	170.669	116.551	-11.144	1.00	33.25	A16S
ATOM	288	C6	C	A	18	171.119	116.236	-9.892	1.00	33.25	A16S
ATOM	289	C2	C	A	18	171.033	115.753	-12.251	1.00	33.25	A16S
ATOM	290	O2	C	A	18	170.664	116.097	-13.383	1.00	33.25	A16S
ATOM	291	N3	C	A	18	171.779	114.636	-12.049	1.00	33.25	A16S
ATOM	292	C4	C	A	18	172.176	114.318	-10.811	1.00	33.25	A16S
ATOM	293	N4	C	A	18	172.878	113.192	-10.636	1.00	33.25	A16S
ATOM	294	C5	C	A	18	171.863	115.140	-9.682	1.00	33.25	A16S
ATOM	295	C2*	C	A	18	168.305	117.228	-11.320	1.00	35.26	A16S
ATOM	296	O2*	C	A	18	167.513	118.110	-12.104	1.00	35.26	A16S
ATOM	297	C3*	C	A	18	167.999	117.345	-9.835	1.00	35.26	A16S
ATOM	298	O3*	C	A	18	166.622	117.389	-9.542	1.00	35.26	A16S
ATOM	299	P	C	A	19	165.889	116.066	-9.001	1.00	37.35	A16S
ATOM	300	O1P	C	A	19	164.548	116.527	-8.546	1.00	41.85	A16S
ATOM	301	O2P	C	A	19	166.793	115.344	-8.050	1.00	41.85	A16S

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ATOM	302	O5*	C	A	19	165.715	115.171	-10.306	1.00	37.35	A16S
ATOM	303	C5*	C	A	19	165.173	115.746	-11.493	1.00	37.35	A16S
ATOM	304	C4*	C	A	19	165.491	114.899	-12.703	1.00	37.35	A16S
ATOM	305	O4*	C	A	19	166.915	114.883	-12.988	1.00	37.35	A16S
ATOM	306	C1*	C	A	19	167.248	113.676	-13.659	1.00	37.35	A16S
ATOM	307	N1	C	A	19	168.219	112.914	-12.851	1.00	41.85	A16S
ATOM	308	C6	C	A	19	168.306	113.094	-11.502	1.00	41.85	A16S
ATOM	309	C2	C	A	19	169.055	111.985	-13.494	1.00	41.85	A16S
ATOM	310	O2	C	A	19	168.963	111.838	-14.722	1.00	41.85	A16S
ATOM	311	N3	C	A	19	169.942	111.273	-12.760	1.00	41.85	A16S
ATOM	312	C4	C	A	19	170.014	111.460	-11.441	1.00	41.85	A16S
ATOM	313	N4	C	A	19	170.895	110.739	-10.753	1.00	41.85	A16S
ATOM	314	C5	C	A	19	169.182	112.397	-10.767	1.00	41.85	A16S
ATOM	315	C2*	C	A	19	165.956	112.890	-13.833	1.00	37.35	A16S
ATOM	316	O2*	C	A	19	165.409	113.258	-15.091	1.00	37.35	A16S
ATOM	317	C3*	C	A	19	165.120	113.429	-12.679	1.00	37.35	A16S
ATOM	318	O3*	C	A	19	163.746	113.218	-12.911	1.00	37.35	A16S
ATOM	319	P	U	A	20	163.083	111.851	-12.422	1.00	33.40	A16S
ATOM	320	O1P	U	A	20	161.649	111.889	-12.808	1.00	35.77	A16S
ATOM	321	O2P	U	A	20	163.472	111.677	-10.993	1.00	35.77	A16S
ATOM	322	O5*	U	A	20	163.806	110.730	-13.296	1.00	33.40	A16S
ATOM	323	C5*	U	A	20	163.581	110.649	-14.717	1.00	33.40	A16S
ATOM	324	C4*	U	A	20	164.356	109.494	-15.309	1.00	33.40	A16S
ATOM	325	O4*	U	A	20	165.776	109.722	-15.139	1.00	33.40	A16S
ATOM	326	C1*	U	A	20	166.422	108.494	-14.851	1.00	33.40	A16S
ATOM	327	N1	U	A	20	166.995	108.584	-13.504	1.00	35.77	A16S
ATOM	328	C6	U	A	20	166.639	109.596	-12.651	1.00	35.77	A16S
ATOM	329	C2	U	A	20	167.906	107.624	-13.127	1.00	35.77	A16S
ATOM	330	O2	U	A	20	168.240	106.702	-13.856	1.00	35.77	A16S
ATOM	331	N3	U	A	20	168.415	107.783	-11.865	1.00	35.77	A16S
ATOM	332	C4	U	A	20	168.110	108.786	-10.969	1.00	35.77	A16S
ATOM	333	O4	U	A	20	168.719	108.854	-9.902	1.00	35.77	A16S
ATOM	334	C5	U	A	20	167.151	109.725	-11.434	1.00	35.77	A16S
ATOM	335	C2*	U	A	20	165.389	107.377	-14.950	1.00	33.40	A16S
ATOM	336	O2*	U	A	20	165.479	106.828	-16.250	1.00	33.40	A16S
ATOM	337	C3*	U	A	20	164.093	108.133	-14.679	1.00	33.40	A16S
ATOM	338	O3*	U	A	20	162.968	107.510	-15.296	1.00	33.40	A16S
ATOM	339	P	G	A	21	162.041	106.519	-14.442	1.00	30.22	A16S
ATOM	340	O1P	G	A	21	161.118	105.860	-15.403	1.00	49.19	A16S
ATOM	341	O2P	G	A	21	161.477	107.294	-13.312	1.00	49.19	A16S
ATOM	342	O5*	G	A	21	163.099	105.471	-13.863	1.00	30.22	A16S
ATOM	343	C5*	G	A	21	163.747	104.530	-14.743	1.00	30.22	A16S
ATOM	344	C4*	G	A	21	164.685	103.607	-13.980	1.00	30.22	A16S
ATOM	345	O4*	G	A	21	165.900	104.298	-13.584	1.00	30.22	A16S
ATOM	346	C1*	G	A	21	166.391	103.760	-12.366	1.00	30.22	A16S
ATOM	347	N9	G	A	21	166.343	104.829	-11.374	1.00	49.19	A16S
ATOM	348	C4	G	A	21	167.109	104.969	-10.237	1.00	49.19	A16S
ATOM	349	N3	G	A	21	168.084	104.137	-9.818	1.00	49.19	A16S
ATOM	350	C2	G	A	21	168.646	104.562	-8.687	1.00	49.19	A16S
ATOM	351	N2	G	A	21	169.678	103.895	-8.144	1.00	49.19	A16S
ATOM	352	N1	G	A	21	168.248	105.684	-8.008	1.00	49.19	A16S
ATOM	353	C6	G	A	21	167.233	106.546	-8.415	1.00	49.19	A16S
ATOM	354	O6	G	A	21	166.930	107.529	-7.715	1.00	49.19	A16S
ATOM	355	C5	G	A	21	166.659	106.130	-9.640	1.00	49.19	A16S
ATOM	356	N7	G	A	21	165.656	106.716	-10.395	1.00	49.19	A16S
ATOM	357	C8	G	A	21	165.497	105.910	-11.405	1.00	49.19	A16S
ATOM	358	C2*	G	A	21	165.495	102.569	-12.018	1.00	30.22	A16S
ATOM	359	O2*	G	A	21	166.076	101.412	-12.600	1.00	30.22	A16S
ATOM	360	C3*	G	A	21	164.183	102.940	-12.711	1.00	30.22	A16S
ATOM	361	O3*	G	A	21	163.397	101.793	-13.024	1.00	30.22	A16S
ATOM	362	P	G	A	22	162.438	101.146	-11.904	1.00	45.79	A16S
ATOM	363	O1P	G	A	22	161.500	100.202	-12.609	1.00	39.06	A16S
ATOM	364	O2P	G	A	22	161.889	102.218	-11.026	1.00	39.06	A16S
ATOM	365	O5*	G	A	22	163.433	100.257	-11.047	1.00	45.79	A16S
ATOM	366	C5*	G	A	22	163.981	99.084	-11.627	1.00	45.79	A16S
ATOM	367	C4*	G	A	22	165.098	98.559	-10.783	1.00	45.79	A16S
ATOM	368	O4*	G	A	22	166.127	99.561	-10.666	1.00	45.79	A16S
ATOM	369	C1*	G	A	22	166.801	99.390	-9.442	1.00	45.79	A16S
ATOM	370	N9	G	A	22	166.658	100.601	-8.656	1.00	39.06	A16S
ATOM	371	C4	G	A	22	167.552	101.038	-7.733	1.00	39.06	A16S
ATOM	372	N3	G	A	22	168.721	100.446	-7.439	1.00	39.06	A16S
ATOM	373	C2	G	A	22	169.362	101.077	-6.482	1.00	39.06	A16S
ATOM	374	N2	G	A	22	170.551	100.635	-6.075	1.00	39.06	A16S
ATOM	375	N1	G	A	22	168.888	102.194	-5.854	1.00	39.06	A16S
ATOM	376	C6	G	A	22	167.690	102.827	-6.148	1.00	39.06	A16S
ATOM	377	O6	G	A	22	167.364	103.843	-5.527	1.00	39.06	A16S
ATOM	378	C5	G	A	22	166.993	102.163	-7.183	1.00	39.06	A16S

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ATOM	379	N7	G	A	22	165.773	102.449	-7.779	1.00	39.06	A16S
ATOM	380	C8	G	A	22	165.618	101.495	-8.652	1.00	39.06	A16S
ATOM	381	C2*	G	A	22	166.153	98.221	-8.709	1.00	45.79	A16S
ATOM	382	O2*	G	A	22	166.901	97.051	-8.994	1.00	45.79	A16S
ATOM	383	C3*	G	A	22	164.775	98.193	-9.348	1.00	45.79	A16S
ATOM	384	O3*	G	A	22	164.204	96.904	-9.273	1.00	45.79	A16S
ATOM	385	P	C	A	23	163.366	96.483	-7.977	1.00	34.64	A16S
ATOM	386	O1P	C	A	23	162.985	95.064	-8.214	1.00	42.75	A16S
ATOM	387	O2P	C	A	23	162.306	97.504	-7.712	1.00	42.75	A16S
ATOM	388	O5*	C	A	23	164.426	96.525	-6.789	1.00	34.64	A16S
ATOM	389	C5*	C	A	23	165.519	95.611	-6.797	1.00	34.64	A16S
ATOM	390	C4*	C	A	23	166.454	95.895	-5.662	1.00	34.64	A16S
ATOM	391	O4*	C	A	23	167.074	97.184	-5.853	1.00	34.64	A16S
ATOM	392	C1*	C	A	23	167.285	97.796	-4.595	1.00	34.64	A16S
ATOM	393	N1	C	A	23	166.516	99.053	-4.575	1.00	42.75	A16S
ATOM	394	C6	C	A	23	165.394	99.189	-5.337	1.00	42.75	A16S
ATOM	395	C2	C	A	23	166.957	100.111	-3.774	1.00	42.75	A16S
ATOM	396	O2	C	A	23	167.968	99.956	-3.069	1.00	42.75	A16S
ATOM	397	N3	C	A	23	166.269	101.271	-3.779	1.00	42.75	A16S
ATOM	398	C4	C	A	23	165.179	101.393	-4.532	1.00	42.75	A16S
ATOM	399	N4	C	A	23	164.524	102.556	-4.508	1.00	42.75	A16S
ATOM	400	C5	C	A	23	164.704	100.329	-5.344	1.00	42.75	A16S
ATOM	401	C2*	C	A	23	166.847	96.799	-3.520	1.00	34.64	A16S
ATOM	402	O2*	C	A	23	167.958	96.006	-3.142	1.00	34.64	A16S
ATOM	403	C3*	C	A	23	165.833	95.965	-4.283	1.00	34.64	A16S
ATOM	404	O3*	C	A	23	165.676	94.679	-3.714	1.00	34.64	A16S
ATOM	405	P	U	A	24	164.417	94.401	-2.769	1.00	36.91	A16S
ATOM	406	O1P	U	A	24	164.412	92.956	-2.417	1.00	54.40	A16S
ATOM	407	O2P	U	A	24	163.217	95.004	-3.417	1.00	54.40	A16S
ATOM	408	O5*	U	A	24	164.783	95.260	-1.486	1.00	36.91	A16S
ATOM	409	C5*	U	A	24	166.021	95.025	-0.809	1.00	36.91	A16S
ATOM	410	C4*	U	A	24	166.217	96.026	0.295	1.00	36.91	A16S
ATOM	411	O4*	U	A	24	166.583	97.303	-0.276	1.00	36.91	A16S
ATOM	412	C1*	U	A	24	166.085	98.348	0.545	1.00	36.91	A16S
ATOM	413	N1	U	A	24	165.182	99.186	-0.257	1.00	54.40	A16S
ATOM	414	C6	U	A	24	164.826	98.835	-1.534	1.00	54.40	A16S
ATOM	415	C2	U	A	24	164.680	100.338	0.336	1.00	54.40	A16S
ATOM	416	O2	U	A	24	165.004	100.696	1.459	1.00	54.40	A16S
ATOM	417	N3	U	A	24	163.789	101.049	-0.434	1.00	54.40	A16S
ATOM	418	C4	U	A	24	163.365	100.732	-1.712	1.00	54.40	A16S
ATOM	419	O4	U	A	24	162.487	101.412	-2.252	1.00	54.40	A16S
ATOM	420	C5	U	A	24	163.961	99.544	-2.261	1.00	54.40	A16S
ATOM	421	C2*	U	A	24	165.361	97.700	1.730	1.00	36.91	A16S
ATOM	422	O2*	U	A	24	166.233	97.616	2.839	1.00	36.91	A16S
ATOM	423	C3*	U	A	24	165.007	96.336	1.160	1.00	36.91	A16S
ATOM	424	O3*	U	A	24	164.753	95.369	2.163	1.00	36.91	A16S
ATOM	425	P	C	A	25	163.234	95.098	2.615	1.00	39.69	A16S
ATOM	426	O1P	C	A	25	163.179	93.769	3.284	1.00	41.24	A16S
ATOM	427	O2P	C	A	25	162.345	95.363	1.452	1.00	41.24	A16S
ATOM	428	O5*	C	A	25	162.974	96.227	3.713	1.00	39.69	A16S
ATOM	429	C5*	C	A	25	163.854	96.342	4.844	1.00	39.69	A16S
ATOM	430	C4*	C	A	25	163.632	97.645	5.575	1.00	39.69	A16S
ATOM	431	O4*	C	A	25	163.999	98.770	4.735	1.00	39.69	A16S
ATOM	432	C1*	C	A	25	163.158	99.872	5.031	1.00	39.69	A16S
ATOM	433	N1	C	A	25	162.375	100.214	3.824	1.00	41.24	A16S
ATOM	434	C6	C	A	25	162.173	99.294	2.833	1.00	41.24	A16S
ATOM	435	C2	C	A	25	161.837	101.506	3.705	1.00	41.24	A16S
ATOM	436	O2	C	A	25	162.031	102.329	4.621	1.00	41.24	A16S
ATOM	437	N3	C	A	25	161.121	101.822	2.598	1.00	41.24	A16S
ATOM	438	C4	C	A	25	160.939	100.912	1.640	1.00	41.24	A16S
ATOM	439	N4	C	A	25	160.234	101.260	0.570	1.00	41.24	A16S
ATOM	440	C5	C	A	25	161.471	99.602	1.737	1.00	41.24	A16S
ATOM	441	C2*	C	A	25	162.257	99.461	6.192	1.00	39.69	A16S
ATOM	442	O2*	C	A	25	162.883	99.854	7.402	1.00	39.69	A16S
ATOM	443	C3*	C	A	25	162.214	97.952	6.015	1.00	39.69	A16S
ATOM	444	O3*	C	A	25	161.880	97.282	7.212	1.00	39.69	A16S
ATOM	445	P	A	A	26	160.373	96.783	7.444	1.00	50.69	A16S
ATOM	446	O1P	A	A	26	160.408	95.739	8.503	1.00	42.41	A16S
ATOM	447	O2P	A	A	26	159.742	96.476	6.133	1.00	42.41	A16S
ATOM	448	O5*	A	A	26	159.674	98.073	8.049	1.00	50.69	A16S
ATOM	449	C5*	A	A	26	160.193	98.668	9.245	1.00	50.69	A16S
ATOM	450	C4*	A	A	26	159.602	100.041	9.455	1.00	50.69	A16S
ATOM	451	O4*	A	A	26	159.976	100.915	8.368	1.00	50.69	A16S
ATOM	452	C1*	A	A	26	158.956	101.857	8.150	1.00	50.69	A16S
ATOM	453	N9	A	A	26	158.535	101.761	6.764	1.00	42.41	A16S
ATOM	454	C4	A	A	26	158.161	102.819	5.987	1.00	42.41	A16S
ATOM	455	N3	A	A	26	158.118	104.109	6.347	1.00	42.41	A16S

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ATOM	456	C2	A	A	26	157.703	104.861	5.331	1.00	42.41	A16S
ATOM	457	N1	A	A	26	157.350	104.494	4.093	1.00	42.41	A16S
ATOM	458	C6	A	A	26	157.403	103.184	3.772	1.00	42.41	A16S
ATOM	459	N6	A	A	26	157.035	102.809	2.548	1.00	42.41	A16S
ATOM	460	C5	A	A	26	157.836	102.287	4.756	1.00	42.41	A16S
ATOM	461	N7	A	A	26	158.014	100.912	4.752	1.00	42.41	A16S
ATOM	462	C8	A	A	26	158.429	100.651	5.967	1.00	42.41	A16S
ATOM	463	C2*	A	A	26	157.840	101.594	9.155	1.00	50.69	A16S
ATOM	464	O2*	A	A	26	158.096	102.472	10.227	1.00	50.69	A16S
ATOM	465	C3*	A	A	26	158.090	100.136	9.535	1.00	50.69	A16S
ATOM	466	O3*	A	A	26	157.693	99.870	10.880	1.00	50.69	A16S
ATOM	467	P	G	A	27	156.538	98.791	11.187	1.00	48.89	A16S
ATOM	468	O1P	G	A	27	156.180	99.029	12.614	1.00	40.75	A16S
ATOM	469	O2P	G	A	27	156.959	97.425	10.750	1.00	40.75	A16S
ATOM	470	O5*	G	A	27	155.309	99.287	10.306	1.00	48.89	A16S
ATOM	471	C5*	G	A	27	154.628	100.503	10.641	1.00	48.89	A16S
ATOM	472	C4*	G	A	27	153.288	100.529	9.977	1.00	48.89	A16S
ATOM	473	O4*	G	A	27	153.498	100.574	8.542	1.00	48.89	A16S
ATOM	474	C1*	G	A	27	152.512	99.787	7.889	1.00	48.89	A16S
ATOM	475	N9	G	A	27	153.171	98.666	7.217	1.00	40.75	A16S
ATOM	476	C4	G	A	27	152.624	97.869	6.240	1.00	40.75	A16S
ATOM	477	N3	G	A	27	151.408	98.024	5.686	1.00	40.75	A16S
ATOM	478	C2	G	A	27	151.146	97.087	4.787	1.00	40.75	A16S
ATOM	479	N2	G	A	27	149.970	97.114	4.120	1.00	40.75	A16S
ATOM	480	N1	G	A	27	152.011	96.063	4.473	1.00	40.75	A16S
ATOM	481	C6	G	A	27	153.266	95.879	5.045	1.00	40.75	A16S
ATOM	482	O6	G	A	27	153.955	94.907	4.717	1.00	40.75	A16S
ATOM	483	C5	G	A	27	153.564	96.896	5.991	1.00	40.75	A16S
ATOM	484	N7	G	A	27	154.696	97.098	6.762	1.00	40.75	A16S
ATOM	485	C8	G	A	27	154.423	98.162	7.468	1.00	40.75	A16S
ATOM	486	C2*	G	A	27	151.554	99.271	8.969	1.00	48.89	A16S
ATOM	487	O2*	G	A	27	150.450	100.139	9.091	1.00	48.89	A16S
ATOM	488	C3*	G	A	27	152.446	99.284	10.200	1.00	48.89	A16S
ATOM	489	O3*	G	A	27	151.707	99.308	11.411	1.00	48.89	A16S
ATOM	490	P	G	A	28	151.338	97.917	12.155	1.00	45.94	A16S
ATOM	491	O1P	G	A	28	150.626	98.325	13.400	1.00	44.83	A16S
ATOM	492	O2P	G	A	28	152.532	97.045	12.260	1.00	44.83	A16S
ATOM	493	O5*	G	A	28	150.293	97.200	11.183	1.00	45.94	A16S
ATOM	494	C5*	G	A	28	149.019	97.810	10.938	1.00	45.94	A16S
ATOM	495	C4*	G	A	28	148.245	97.070	9.873	1.00	45.94	A16S
ATOM	496	O4*	G	A	28	148.886	97.207	8.579	1.00	45.94	A16S
ATOM	497	C1*	G	A	28	148.606	96.063	7.787	1.00	45.94	A16S
ATOM	498	N9	G	A	28	149.859	95.368	7.515	1.00	44.83	A16S
ATOM	499	C4	G	A	28	150.045	94.341	6.617	1.00	44.83	A16S
ATOM	500	N3	G	A	28	149.117	93.843	5.775	1.00	44.83	A16S
ATOM	501	C2	G	A	28	149.588	92.838	5.058	1.00	44.83	A16S
ATOM	502	N2	G	A	28	148.798	92.236	4.169	1.00	44.83	A16S
ATOM	503	N1	G	A	28	150.866	92.352	5.164	1.00	44.83	A16S
ATOM	504	C6	G	A	28	151.837	92.845	6.031	1.00	44.83	A16S
ATOM	505	O6	G	A	28	152.960	92.325	6.069	1.00	44.83	A16S
ATOM	506	C5	G	A	28	151.350	93.934	6.795	1.00	44.83	A16S
ATOM	507	N7	G	A	28	151.987	94.717	7.749	1.00	44.83	A16S
ATOM	508	C8	G	A	28	151.069	95.561	8.138	1.00	44.83	A16S
ATOM	509	C2*	G	A	28	147.694	95.156	8.614	1.00	45.94	A16S
ATOM	510	O2*	G	A	28	146.342	95.419	8.296	1.00	45.94	A16S
ATOM	511	C3*	G	A	28	148.048	95.576	10.034	1.00	45.94	A16S
ATOM	512	O3*	G	A	28	147.003	95.257	10.930	1.00	45.94	A16S
ATOM	513	P	G	A	29	147.082	93.893	11.777	1.00	50.48	A16S
ATOM	514	O1P	G	A	29	145.892	93.875	12.676	1.00	53.83	A16S
ATOM	515	O2P	G	A	29	148.456	93.799	12.355	1.00	53.83	A16S
ATOM	516	O5*	G	A	29	146.893	92.734	10.700	1.00	50.48	A16S
ATOM	517	C5*	G	A	29	145.704	92.687	9.906	1.00	50.48	A16S
ATOM	518	C4*	G	A	29	145.802	91.604	8.863	1.00	50.48	A16S
ATOM	519	O4*	G	A	29	146.836	91.923	7.902	1.00	50.48	A16S
ATOM	520	C1*	G	A	29	147.395	90.724	7.391	1.00	50.48	A16S
ATOM	521	N9	G	A	29	148.827	90.687	7.687	1.00	53.83	A16S
ATOM	522	C4	G	A	29	149.751	89.859	7.092	1.00	53.83	A16S
ATOM	523	N3	G	A	29	149.495	88.962	6.119	1.00	53.83	A16S
ATOM	524	C2	G	A	29	150.584	88.327	5.735	1.00	53.83	A16S
ATOM	525	N2	G	A	29	150.512	87.424	4.751	1.00	53.83	A16S
ATOM	526	N1	G	A	29	151.826	88.537	6.277	1.00	53.83	A16S
ATOM	527	C6	G	A	29	152.117	89.455	7.279	1.00	53.83	A16S
ATOM	528	O6	G	A	29	153.284	89.573	7.689	1.00	53.83	A16S
ATOM	529	C5	G	A	29	150.952	90.158	7.692	1.00	53.83	A16S
ATOM	530	N7	G	A	29	150.794	91.160	8.639	1.00	53.83	A16S
ATOM	531	C8	G	A	29	149.520	91.441	8.603	1.00	53.83	A16S
ATOM	532	C2*	G	A	29	146.652	89.565	8.042	1.00	50.48	A16S

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ATOM	533	O2*	G	A	29	145.590	89.225	7.173	1.00	50.48	A16S
ATOM	534	C3*	G	A	29	146.154	90.204	9.330	1.00	50.48	A16S
ATOM	535	O3*	G	A	29	145.019	89.527	9.829	1.00	50.48	A16S
ATOM	536	P	U	A	30	145.210	88.312	10.859	1.00	62.48	A16S
ATOM	537	O1P	U	A	30	143.839	87.848	11.173	1.00	54.86	A16S
ATOM	538	O2P	U	A	30	146.121	88.743	11.968	1.00	54.86	A16S
ATOM	539	O5*	U	A	30	145.938	87.181	9.998	1.00	62.48	A16S
ATOM	540	C5*	U	A	30	145.249	86.427	8.959	1.00	62.48	A16S
ATOM	541	C4*	U	A	30	146.114	85.261	8.519	1.00	62.48	A16S
ATOM	542	O4*	U	A	30	147.381	85.813	8.118	1.00	62.48	A16S
ATOM	543	C1*	U	A	30	148.412	84.931	8.477	1.00	62.48	A16S
ATOM	544	N1	U	A	30	149.564	85.710	8.932	1.00	54.86	A16S
ATOM	545	C6	U	A	30	149.453	86.661	9.904	1.00	54.86	A16S
ATOM	546	C2	U	A	30	150.773	85.461	8.310	1.00	54.86	A16S
ATOM	547	O2	U	A	30	150.919	84.584	7.452	1.00	54.86	A16S
ATOM	548	N3	U	A	30	151.808	86.266	8.722	1.00	54.86	A16S
ATOM	549	C4	U	A	30	151.755	87.258	9.674	1.00	54.86	A16S
ATOM	550	O4	U	A	30	152.759	87.937	9.898	1.00	54.86	A16S
ATOM	551	C5	U	A	30	150.480	87.427	10.285	1.00	54.86	A16S
ATOM	552	C2*	U	A	30	147.887	83.865	9.432	1.00	62.48	A16S
ATOM	553	O2*	U	A	30	148.034	82.586	8.839	1.00	62.48	A16S
ATOM	554	C3*	U	A	30	146.436	84.294	9.659	1.00	62.48	A16S
ATOM	555	O3*	U	A	30	145.632	83.091	9.655	1.00	62.48	A16S
ATOM	556	P	G	A	31	144.855	82.587	8.310	1.00	52.49	A16S
ATOM	557	O1P	G	A	31	145.833	82.241	7.227	1.00	54.92	A16S
ATOM	558	O2P	G	A	31	143.719	83.507	8.004	1.00	54.92	A16S
ATOM	559	O5*	G	A	31	144.235	81.214	8.822	1.00	52.49	A16S
ATOM	560	C5*	G	A	31	143.557	81.170	10.087	1.00	52.49	A16S
ATOM	561	C4*	G	A	31	143.879	79.896	10.812	1.00	52.49	A16S
ATOM	562	O4*	G	A	31	143.572	78.799	9.924	1.00	52.49	A16S
ATOM	563	C1*	G	A	31	144.700	77.976	9.768	1.00	52.49	A16S
ATOM	564	N9	G	A	31	144.704	77.542	8.379	1.00	54.92	A16S
ATOM	565	C4	G	A	31	144.498	76.268	7.912	1.00	54.92	A16S
ATOM	566	N3	G	A	31	144.305	75.170	8.661	1.00	54.92	A16S
ATOM	567	C2	G	A	31	144.090	74.096	7.917	1.00	54.92	A16S
ATOM	568	N2	G	A	31	143.884	72.899	8.497	1.00	54.92	A16S
ATOM	569	N1	G	A	31	144.062	74.107	6.550	1.00	54.92	A16S
ATOM	570	C6	G	A	31	144.269	75.225	5.759	1.00	54.92	A16S
ATOM	571	O6	G	A	31	144.237	75.124	4.529	1.00	54.92	A16S
ATOM	572	C5	G	A	31	144.502	76.378	6.541	1.00	54.92	A16S
ATOM	573	N7	G	A	31	144.742	77.686	6.152	1.00	54.92	A16S
ATOM	574	C8	G	A	31	144.865	78.337	7.276	1.00	54.92	A16S
ATOM	575	C2*	G	A	31	145.911	78.807	10.199	1.00	52.49	A16S
ATOM	576	O2*	G	A	31	146.916	77.960	10.727	1.00	52.49	A16S
ATOM	577	C3*	G	A	31	145.313	79.702	11.279	1.00	52.49	A16S
ATOM	578	O3*	G	A	31	145.267	78.966	12.499	1.00	52.49	A16S
ATOM	579	P	A	A	32	146.163	79.417	13.759	1.00	47.49	A16S
ATOM	580	O1P	A	A	32	146.426	78.196	14.549	1.00	51.97	A16S
ATOM	581	O2P	A	A	32	145.485	80.569	14.410	1.00	51.97	A16S
ATOM	582	O5*	A	A	32	147.530	79.917	13.109	1.00	47.49	A16S
ATOM	583	C5*	A	A	32	148.803	79.514	13.635	1.00	47.49	A16S
ATOM	584	C4*	A	A	32	149.646	78.912	12.533	1.00	47.49	A16S
ATOM	585	O4*	A	A	32	149.823	79.884	11.467	1.00	47.49	A16S
ATOM	586	C1*	A	A	32	151.134	79.785	10.938	1.00	47.49	A16S
ATOM	587	N9	A	A	32	151.821	81.063	11.184	1.00	51.97	A16S
ATOM	588	C4	A	A	32	153.113	81.418	10.848	1.00	51.97	A16S
ATOM	589	N3	A	A	32	154.033	80.673	10.211	1.00	51.97	A16S
ATOM	590	C2	A	A	32	155.167	81.361	10.053	1.00	51.97	A16S
ATOM	591	N1	A	A	32	155.465	82.612	10.431	1.00	51.97	A16S
ATOM	592	C6	A	A	32	154.523	83.333	11.066	1.00	51.97	A16S
ATOM	593	N6	A	A	32	154.816	84.580	11.436	1.00	51.97	A16S
ATOM	594	C5	A	A	32	153.277	82.721	11.296	1.00	51.97	A16S
ATOM	595	N7	A	A	32	152.117	83.181	11.896	1.00	51.97	A16S
ATOM	596	C8	A	A	32	151.288	82.167	11.806	1.00	51.97	A16S
ATOM	597	C2*	A	A	32	151.795	78.573	11.605	1.00	47.49	A16S
ATOM	598	O2*	A	A	32	151.521	77.410	10.834	1.00	47.49	A16S
ATOM	599	C3*	A	A	32	151.057	78.510	12.934	1.00	47.49	A16S
ATOM	600	O3*	A	A	32	151.088	77.200	13.499	1.00	47.49	A16S
ATOM	601	P	A	A	33	151.683	76.983	14.979	1.00	54.93	A16S
ATOM	602	O1P	A	A	33	150.970	75.811	15.545	1.00	46.31	A16S
ATOM	603	O2P	A	A	33	151.655	78.268	15.714	1.00	46.31	A16S
ATOM	604	O5*	A	A	33	153.223	76.630	14.750	1.00	54.93	A16S
ATOM	605	C5*	A	A	33	153.640	75.659	13.760	1.00	54.93	A16S
ATOM	606	C4*	A	A	33	155.005	76.028	13.204	1.00	54.93	A16S
ATOM	607	O4*	A	A	33	154.911	77.231	12.394	1.00	54.93	A16S
ATOM	608	C1*	A	A	33	156.068	78.026	12.577	1.00	54.93	A16S
ATOM	609	N9	A	A	33	155.649	79.322	13.118	1.00	46.31	A16S

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ATOM	610	C4	A	A	33	156.404	80.473	13.175	1.00	46.31	A16S
ATOM	611	N3	A	A	33	157.672	80.642	12.763	1.00	46.31	A16S
ATOM	612	C2	A	A	33	158.070	81.895	12.969	1.00	46.31	A16S
ATOM	613	N1	A	A	33	157.402	82.913	13.505	1.00	46.31	A16S
ATOM	614	C6	A	A	33	156.134	82.706	13.916	1.00	46.31	A16S
ATOM	615	N6	A	A	33	155.472	83.717	14.473	1.00	46.31	A16S
ATOM	616	C5	A	A	33	155.589	81.432	13.743	1.00	46.31	A16S
ATOM	617	N7	A	A	33	154.342	80.905	14.042	1.00	46.31	A16S
ATOM	618	C8	A	A	33	154.428	79.654	13.659	1.00	46.31	A16S
ATOM	619	C2*	A	A	33	157.021	77.264	13.498	1.00	54.93	A16S
ATOM	620	O2*	A	A	33	157.955	76.544	12.717	1.00	54.93	A16S
ATOM	621	C3*	A	A	33	156.059	76.352	14.248	1.00	54.93	A16S
ATOM	622	O3*	A	A	33	156.688	75.175	14.726	1.00	54.93	A16S
ATOM	623	P	C	A	34	157.167	75.098	16.263	1.00	40.01	A16S
ATOM	624	O1P	C	A	34	157.542	73.657	16.480	1.00	50.20	A16S
ATOM	625	O2P	C	A	34	156.111	75.725	17.118	1.00	50.20	A16S
ATOM	626	O5*	C	A	34	158.473	76.018	16.319	1.00	40.01	A16S
ATOM	627	C5*	C	A	34	159.693	75.559	15.744	1.00	40.01	A16S
ATOM	628	C4*	C	A	34	160.726	76.641	15.777	1.00	40.01	A16S
ATOM	629	O4*	C	A	34	160.266	77.744	14.968	1.00	40.01	A16S
ATOM	630	C1*	C	A	34	160.738	78.961	15.520	1.00	40.01	A16S
ATOM	631	N1	C	A	34	159.592	79.807	15.881	1.00	50.20	A16S
ATOM	632	C6	C	A	34	158.316	79.310	15.955	1.00	50.20	A16S
ATOM	633	C2	C	A	34	159.846	81.144	16.175	1.00	50.20	A16S
ATOM	634	O2	C	A	34	161.018	81.554	16.075	1.00	50.20	A16S
ATOM	635	N3	C	A	34	158.819	81.950	16.560	1.00	50.20	A16S
ATOM	636	C4	C	A	34	157.581	81.454	16.650	1.00	50.20	A16S
ATOM	637	N4	C	A	34	156.605	82.271	17.047	1.00	50.20	A16S
ATOM	638	C5	C	A	34	157.291	80.092	16.335	1.00	50.20	A16S
ATOM	639	C2*	C	A	34	161.544	78.635	16.775	1.00	40.01	A16S
ATOM	640	O2*	C	A	34	162.919	78.674	16.486	1.00	40.01	A16S
ATOM	641	C3*	C	A	34	161.004	77.258	17.133	1.00	40.01	A16S
ATOM	642	O3*	C	A	34	161.922	76.512	17.907	1.00	40.01	A16S
ATOM	643	P	G	A	35	161.824	76.568	19.514	1.00	45.54	A16S
ATOM	644	O1P	G	A	35	162.664	75.474	20.074	1.00	48.19	A16S
ATOM	645	O2P	G	A	35	160.384	76.622	19.867	1.00	48.19	A16S
ATOM	646	O5*	G	A	35	162.518	77.960	19.874	1.00	45.54	A16S
ATOM	647	C5*	G	A	35	163.907	78.173	19.558	1.00	45.54	A16S
ATOM	648	C4*	G	A	35	164.343	79.542	19.995	1.00	45.54	A16S
ATOM	649	O4*	G	A	35	163.686	80.542	19.184	1.00	45.54	A16S
ATOM	650	C1*	G	A	35	163.352	81.663	19.983	1.00	45.54	A16S
ATOM	651	N9	G	A	35	161.897	81.821	19.976	1.00	48.19	A16S
ATOM	652	C4	G	A	35	161.189	82.971	20.270	1.00	48.19	A16S
ATOM	653	N3	G	A	35	161.712	84.155	20.635	1.00	48.19	A16S
ATOM	654	C2	G	A	35	160.781	85.067	20.832	1.00	48.19	A16S
ATOM	655	N2	G	A	35	161.120	86.296	21.208	1.00	48.19	A16S
ATOM	656	N1	G	A	35	159.449	84.844	20.680	1.00	48.19	A16S
ATOM	657	C6	G	A	35	158.880	83.634	20.317	1.00	48.19	A16S
ATOM	658	O6	G	A	35	157.653	83.537	20.224	1.00	48.19	A16S
ATOM	659	C5	G	A	35	159.863	82.638	20.103	1.00	48.19	A16S
ATOM	660	N7	G	A	35	159.729	81.304	19.732	1.00	48.19	A16S
ATOM	661	C8	G	A	35	160.958	80.860	19.670	1.00	48.19	A16S
ATOM	662	C2*	G	A	35	163.912	81.405	21.376	1.00	45.54	A16S
ATOM	663	O2*	G	A	35	165.212	81.937	21.441	1.00	45.54	A16S
ATOM	664	C3*	G	A	35	163.951	79.891	21.409	1.00	45.54	A16S
ATOM	665	O3*	G	A	35	164.885	79.396	22.337	1.00	45.54	A16S
ATOM	666	P	C	A	36	164.367	78.867	23.763	1.00	52.67	A16S
ATOM	667	O1P	C	A	36	165.451	78.002	24.306	1.00	39.15	A16S
ATOM	668	O2P	C	A	36	162.999	78.298	23.580	1.00	39.15	A16S
ATOM	669	O5*	C	A	36	164.271	80.195	24.638	1.00	52.67	A16S
ATOM	670	C5*	C	A	36	165.433	81.018	24.857	1.00	52.67	A16S
ATOM	671	C4*	C	A	36	165.019	82.371	25.376	1.00	52.67	A16S
ATOM	672	O4*	C	A	36	164.351	83.112	24.318	1.00	52.67	A16S
ATOM	673	C1*	C	A	36	163.286	83.881	24.866	1.00	52.67	A16S
ATOM	674	N1	C	A	36	162.016	83.389	24.304	1.00	39.15	A16S
ATOM	675	C6	C	A	36	161.936	82.135	23.776	1.00	39.15	A16S
ATOM	676	C2	C	A	36	160.870	84.217	24.345	1.00	39.15	A16S
ATOM	677	O2	C	A	36	160.970	85.378	24.788	1.00	39.15	A16S
ATOM	678	N3	C	A	36	159.691	83.728	23.893	1.00	39.15	A16S
ATOM	679	C4	C	A	36	159.635	82.493	23.392	1.00	39.15	A16S
ATOM	680	N4	C	A	36	158.465	82.046	22.949	1.00	39.15	A16S
ATOM	681	C5	C	A	36	160.780	81.655	23.316	1.00	39.15	A16S
ATOM	682	C2*	C	A	36	163.302	83.680	26.381	1.00	52.67	A16S
ATOM	683	O2*	C	A	36	163.998	84.731	27.017	1.00	52.67	A16S
ATOM	684	C3*	C	A	36	164.000	82.333	26.503	1.00	52.67	A16S
ATOM	685	O3*	C	A	36	164.567	82.122	27.787	1.00	52.67	A16S
ATOM	686	P	U	A	37	163.713	81.330	28.900	1.00	56.32	A16S

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ATOM	687	O1P	U	A	37	164.525	81.346	30.156	1.00	57.98	A16S
ATOM	688	O2P	U	A	37	163.275	80.021	28.308	1.00	57.98	A16S
ATOM	689	O5*	U	A	37	162.413	82.235	29.114	1.00	56.32	A16S
ATOM	690	C5*	U	A	37	162.524	83.569	29.647	1.00	56.32	A16S
ATOM	691	C4*	U	A	37	161.162	84.228	29.762	1.00	56.32	A16S
ATOM	692	O4*	U	A	37	160.632	84.577	28.454	1.00	56.32	A16S
ATOM	693	C1*	U	A	37	159.212	84.545	28.493	1.00	56.32	A16S
ATOM	694	N1	U	A	37	158.720	83.495	27.591	1.00	57.98	A16S
ATOM	695	C6	U	A	37	159.503	82.428	27.235	1.00	57.98	A16S
ATOM	696	C2	U	A	37	157.410	83.591	27.149	1.00	57.98	A16S
ATOM	697	O2	U	A	37	156.700	84.555	27.378	1.00	57.98	A16S
ATOM	698	N3	U	A	37	156.962	82.515	26.425	1.00	57.98	A16S
ATOM	699	C4	U	A	37	157.677	81.387	26.087	1.00	57.98	A16S
ATOM	700	O4	U	A	37	157.089	80.427	25.581	1.00	57.98	A16S
ATOM	701	C5	U	A	37	159.040	81.399	26.518	1.00	57.98	A16S
ATOM	702	C2*	U	A	37	158.804	84.176	29.915	1.00	56.32	A16S
ATOM	703	O2*	U	A	37	158.526	85.361	30.637	1.00	56.32	A16S
ATOM	704	C3*	U	A	37	160.041	83.431	30.403	1.00	56.32	A16S
ATOM	705	O3*	U	A	37	160.121	83.373	31.816	1.00	56.32	A16S
ATOM	706	P	G	A	38	159.395	82.164	32.599	1.00	59.96	A16S
ATOM	707	O1P	G	A	38	159.639	82.379	34.050	1.00	69.06	A16S
ATOM	708	O2P	G	A	38	159.753	80.864	31.978	1.00	69.06	A16S
ATOM	709	O5*	G	A	38	157.849	82.408	32.323	1.00	59.96	A16S
ATOM	710	C5*	G	A	38	157.236	83.634	32.730	1.00	59.96	A16S
ATOM	711	C4*	G	A	38	155.794	83.660	32.317	1.00	59.96	A16S
ATOM	712	O4*	G	A	38	155.689	83.705	30.875	1.00	59.96	A16S
ATOM	713	C1*	G	A	38	154.483	83.078	30.478	1.00	59.96	A16S
ATOM	714	N9	G	A	38	154.771	81.983	29.554	1.00	69.06	A16S
ATOM	715	C4	G	A	38	153.860	81.414	28.705	1.00	69.06	A16S
ATOM	716	N3	G	A	38	152.589	81.822	28.532	1.00	69.06	A16S
ATOM	717	C2	G	A	38	151.942	81.055	27.679	1.00	69.06	A16S
ATOM	718	N2	G	A	38	150.666	81.336	27.366	1.00	69.06	A16S
ATOM	719	N1	G	A	38	152.495	79.963	27.061	1.00	69.06	A16S
ATOM	720	C6	G	A	38	153.801	79.530	27.225	1.00	69.06	A16S
ATOM	721	O6	G	A	38	154.192	78.532	26.621	1.00	69.06	A16S
ATOM	722	C5	G	A	38	154.513	80.355	28.120	1.00	69.06	A16S
ATOM	723	N7	G	A	38	155.830	80.292	28.548	1.00	69.06	A16S
ATOM	724	C8	G	A	38	155.943	81.284	29.390	1.00	69.06	A16S
ATOM	725	C2*	G	A	38	153.793	82.552	31.738	1.00	59.96	A16S
ATOM	726	O2*	G	A	38	152.818	83.486	32.150	1.00	59.96	A16S
ATOM	727	C3*	G	A	38	154.955	82.461	32.713	1.00	59.96	A16S
ATOM	728	O3*	G	A	38	154.515	82.573	34.052	1.00	59.96	A16S
ATOM	729	P	G	A	39	154.043	81.259	34.854	1.00	65.37	A16S
ATOM	730	O1P	G	A	39	155.014	81.050	35.972	1.00	65.37	A16S
ATOM	731	O2P	G	A	39	153.751	80.138	33.903	1.00	65.37	A16S
ATOM	732	O5*	G	A	39	152.670	81.726	35.505	1.00	65.37	A16S
ATOM	733	C5*	G	A	39	151.463	81.771	34.734	1.00	65.37	A16S
ATOM	734	C4*	G	A	39	150.369	82.395	35.553	1.00	65.37	A16S
ATOM	735	O4*	G	A	39	150.600	83.828	35.654	1.00	65.37	A16S
ATOM	736	C1*	G	A	39	149.353	84.505	35.694	1.00	65.37	A16S
ATOM	737	N9	G	A	39	149.227	85.366	34.520	1.00	65.37	A16S
ATOM	738	C4	G	A	39	148.192	86.239	34.293	1.00	65.37	A16S
ATOM	739	N3	G	A	39	147.175	86.493	35.145	1.00	65.37	A16S
ATOM	740	C2	G	A	39	146.307	87.351	34.642	1.00	65.37	A16S
ATOM	741	N2	G	A	39	145.240	87.708	35.370	1.00	65.37	A16S
ATOM	742	N1	G	A	39	146.424	87.920	33.395	1.00	65.37	A16S
ATOM	743	C6	G	A	39	147.464	87.678	32.500	1.00	65.37	A16S
ATOM	744	O6	G	A	39	147.469	88.242	31.403	1.00	65.37	A16S
ATOM	745	C5	G	A	39	148.412	86.753	33.035	1.00	65.37	A16S
ATOM	746	N7	G	A	39	149.589	86.246	32.495	1.00	65.37	A16S
ATOM	747	C8	G	A	39	150.045	85.438	33.416	1.00	65.37	A16S
ATOM	748	C2*	G	A	39	148.253	83.444	35.647	1.00	65.37	A16S
ATOM	749	O2*	G	A	39	147.811	83.140	36.952	1.00	65.37	A16S
ATOM	750	C3*	G	A	39	148.974	82.289	34.974	1.00	65.37	A16S
ATOM	751	O3*	G	A	39	148.365	81.036	35.227	1.00	65.37	A16S
ATOM	752	P	C	A	40	147.301	80.460	34.166	1.00	65.44	A16S
ATOM	753	O1P	C	A	40	147.019	79.032	34.486	1.00	62.23	A16S
ATOM	754	O2P	C	A	40	147.775	80.826	32.799	1.00	62.23	A16S
ATOM	755	O5*	C	A	40	145.981	81.302	34.465	1.00	65.44	A16S
ATOM	756	C5*	C	A	40	145.462	81.386	35.803	1.00	65.44	A16S
ATOM	757	C4*	C	A	40	144.240	82.264	35.841	1.00	65.44	A16S
ATOM	758	O4*	C	A	40	144.609	83.642	35.600	1.00	65.44	A16S
ATOM	759	C1*	C	A	40	143.572	84.291	34.890	1.00	65.44	A16S
ATOM	760	N1	C	A	40	144.115	84.819	33.627	1.00	62.23	A16S
ATOM	761	C6	C	A	40	145.340	84.434	33.164	1.00	62.23	A16S
ATOM	762	C2	C	A	40	143.345	85.717	32.897	1.00	62.23	A16S
ATOM	763	O2	C	A	40	142.250	86.066	33.349	1.00	62.23	A16S

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ATOM	764	N3	C	A	40	143.807	86.186	31.719	1.00	62.23	A16S
ATOM	765	C4	C	A	40	144.996	85.797	31.270	1.00	62.23	A16S
ATOM	766	N4	C	A	40	145.409	86.279	30.101	1.00	62.23	A16S
ATOM	767	C5	C	A	40	145.814	84.895	32.001	1.00	62.23	A16S
ATOM	768	C2*	C	A	40	142.453	83.273	34.661	1.00	65.44	A16S
ATOM	769	O2*	C	A	40	141.463	83.419	35.655	1.00	65.44	A16S
ATOM	770	C3*	C	A	40	143.198	81.957	34.789	1.00	65.44	A16S
ATOM	771	O3*	C	A	40	142.354	80.899	35.194	1.00	65.44	A16S
ATOM	772	P	G	A	41	141.769	79.892	34.088	1.00	62.14	A16S
ATOM	773	O1P	G	A	41	141.097	78.786	34.834	1.00	79.01	A16S
ATOM	774	O2P	G	A	41	142.850	79.576	33.109	1.00	79.01	A16S
ATOM	775	O5*	G	A	41	140.629	80.737	33.366	1.00	62.14	A16S
ATOM	776	C5*	G	A	41	139.426	81.016	34.080	1.00	62.14	A16S
ATOM	777	C4*	G	A	41	138.643	82.117	33.421	1.00	62.14	A16S
ATOM	778	O4*	G	A	41	139.463	83.297	33.247	1.00	62.14	A16S
ATOM	779	C1*	G	A	41	138.977	84.042	32.145	1.00	62.14	A16S
ATOM	780	N9	G	A	41	140.076	84.276	31.215	1.00	79.01	A16S
ATOM	781	C4	G	A	41	140.047	85.098	30.118	1.00	79.01	A16S
ATOM	782	N3	G	A	41	138.997	85.836	29.708	1.00	79.01	A16S
ATOM	783	C2	G	A	41	139.277	86.531	28.620	1.00	79.01	A16S
ATOM	784	N2	G	A	41	138.350	87.331	28.084	1.00	79.01	A16S
ATOM	785	N1	G	A	41	140.489	86.492	27.981	1.00	79.01	A16S
ATOM	786	C6	G	A	41	141.578	85.726	28.384	1.00	79.01	A16S
ATOM	787	O6	G	A	41	142.620	85.744	27.728	1.00	79.01	A16S
ATOM	788	C5	G	A	41	141.297	84.995	29.553	1.00	79.01	A16S
ATOM	789	N7	G	A	41	142.099	84.132	30.282	1.00	79.01	A16S
ATOM	790	C8	G	A	41	141.333	83.727	31.256	1.00	79.01	A16S
ATOM	791	C2*	G	A	41	137.818	83.255	31.526	1.00	62.14	A16S
ATOM	792	O2*	G	A	41	136.597	83.753	32.037	1.00	62.14	A16S
ATOM	793	C3*	G	A	41	138.080	81.848	32.043	1.00	62.14	A16S
ATOM	794	O3*	G	A	41	136.870	81.129	32.140	1.00	62.14	A16S
ATOM	795	P	G	A	42	136.289	80.398	30.845	1.00	64.63	A16S
ATOM	796	O1P	G	A	42	135.105	79.605	31.266	1.00	64.15	A16S
ATOM	797	O2P	G	A	42	137.409	79.725	30.148	1.00	64.15	A16S
ATOM	798	O5*	G	A	42	135.794	81.599	29.928	1.00	64.63	A16S
ATOM	799	C5*	G	A	42	134.587	82.299	30.244	1.00	64.63	A16S
ATOM	800	C4*	G	A	42	134.168	83.169	29.089	1.00	64.63	A16S
ATOM	801	O4*	G	A	42	135.111	84.252	28.922	1.00	64.63	A16S
ATOM	802	C1*	G	A	42	135.241	84.552	27.546	1.00	64.63	A16S
ATOM	803	N9	G	A	42	136.625	84.320	27.169	1.00	64.15	A16S
ATOM	804	C4	G	A	42	137.273	84.867	26.094	1.00	64.15	A16S
ATOM	805	N3	G	A	42	136.743	85.736	25.208	1.00	64.15	A16S
ATOM	806	C2	G	A	42	137.621	86.098	24.289	1.00	64.15	A16S
ATOM	807	N2	G	A	42	137.274	86.981	23.342	1.00	64.15	A16S
ATOM	808	N1	G	A	42	138.907	85.624	24.234	1.00	64.15	A16S
ATOM	809	C6	G	A	42	139.465	84.715	25.129	1.00	64.15	A16S
ATOM	810	O6	G	A	42	140.629	84.328	24.975	1.00	64.15	A16S
ATOM	811	C5	G	A	42	138.545	84.343	26.132	1.00	64.15	A16S
ATOM	812	N7	G	A	42	138.697	83.491	27.219	1.00	64.15	A16S
ATOM	813	C8	G	A	42	137.533	83.508	27.804	1.00	64.15	A16S
ATOM	814	C2*	G	A	42	134.289	83.647	26.767	1.00	64.63	A16S
ATOM	815	O2*	G	A	42	133.080	84.338	26.519	1.00	64.63	A16S
ATOM	816	C3*	G	A	42	134.113	82.487	27.734	1.00	64.63	A16S
ATOM	817	O3*	G	A	42	132.864	81.863	27.555	1.00	64.63	A16S
ATOM	818	P	C	A	43	132.698	80.735	26.435	1.00	48.59	A16S
ATOM	819	O1P	C	A	43	131.254	80.356	26.474	1.00	59.07	A16S
ATOM	820	O2P	C	A	43	133.751	79.686	26.622	1.00	59.07	A16S
ATOM	821	O5*	C	A	43	132.969	81.496	25.063	1.00	48.59	A16S
ATOM	822	C5*	C	A	43	131.938	82.290	24.467	1.00	48.59	A16S
ATOM	823	C4*	C	A	43	132.461	83.004	23.250	1.00	48.59	A16S
ATOM	824	O4*	C	A	43	133.631	83.757	23.627	1.00	48.59	A16S
ATOM	825	C1*	C	A	43	134.521	83.819	22.537	1.00	48.59	A16S
ATOM	826	N1	C	A	43	135.787	83.216	22.941	1.00	59.07	A16S
ATOM	827	C6	C	A	43	135.883	82.465	24.076	1.00	59.07	A16S
ATOM	828	C2	C	A	43	136.895	83.420	22.138	1.00	59.07	A16S
ATOM	829	O2	C	A	43	136.773	84.121	21.122	1.00	59.07	A16S
ATOM	830	N3	C	A	43	138.072	82.857	22.482	1.00	59.07	A16S
ATOM	831	C4	C	A	43	138.159	82.125	23.590	1.00	59.07	A16S
ATOM	832	N4	C	A	43	139.342	81.594	23.896	1.00	59.07	A16S
ATOM	833	C5	C	A	43	137.039	81.906	24.434	1.00	59.07	A16S
ATOM	834	C2*	C	A	43	133.886	83.082	21.363	1.00	48.59	A16S
ATOM	835	O2*	C	A	43	133.216	84.029	20.552	1.00	48.59	A16S
ATOM	836	C3*	C	A	43	132.914	82.154	22.074	1.00	48.59	A16S
ATOM	837	O3*	C	A	43	131.823	81.849	21.214	1.00	48.59	A16S
ATOM	838	P	G	A	44	131.808	80.458	20.414	1.00	61.58	A16S
ATOM	839	O1P	G	A	44	130.609	80.501	19.524	1.00	59.55	A16S
ATOM	840	O2P	G	A	44	131.942	79.377	21.423	1.00	59.55	A16S

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ATOM	841	O5*	G	A	44	133.137	80.481	19.522	1.00	61.58	A16S
ATOM	842	C5*	G	A	44	133.224	81.361	18.390	1.00	61.58	A16S
ATOM	843	C4*	G	A	44	134.641	81.471	17.853	1.00	61.58	A16S
ATOM	844	O4*	G	A	44	135.589	81.809	18.896	1.00	61.58	A16S
ATOM	845	C1*	G	A	44	136.898	81.581	18.404	1.00	61.58	A16S
ATOM	846	N9	G	A	44	137.706	80.878	19.395	1.00	59.55	A16S
ATOM	847	C4	G	A	44	139.072	80.713	19.343	1.00	59.55	A16S
ATOM	848	N3	G	A	44	139.895	81.217	18.402	1.00	59.55	A16S
ATOM	849	C2	G	A	44	141.158	80.867	18.612	1.00	59.55	A16S
ATOM	850	N2	G	A	44	142.125	81.299	17.786	1.00	59.55	A16S
ATOM	851	N1	G	A	44	141.572	80.075	19.646	1.00	59.55	A16S
ATOM	852	C6	G	A	44	140.744	79.533	20.610	1.00	59.55	A16S
ATOM	853	O6	G	A	44	141.220	78.803	21.471	1.00	59.55	A16S
ATOM	854	C5	G	A	44	139.387	79.920	20.418	1.00	59.55	A16S
ATOM	855	N7	G	A	44	138.252	79.623	21.157	1.00	59.55	A16S
ATOM	856	C8	G	A	44	137.281	80.218	20.519	1.00	59.55	A16S
ATOM	857	C2*	G	A	44	136.758	80.745	17.135	1.00	61.58	A16S
ATOM	858	O2*	G	A	44	136.940	81.591	16.021	1.00	61.58	A16S
ATOM	859	C3*	G	A	44	135.313	80.276	17.208	1.00	61.58	A16S
ATOM	860	O3*	G	A	44	134.885	80.045	15.880	1.00	61.58	A16S
ATOM	861	P	U	A	45	135.188	78.618	15.190	1.00	54.64	A16S
ATOM	862	O1P	U	A	45	134.664	78.718	13.789	1.00	54.09	A16S
ATOM	863	O2P	U	A	45	134.695	77.535	16.105	1.00	54.09	A16S
ATOM	864	O5*	U	A	45	136.780	78.509	15.120	1.00	54.64	A16S
ATOM	865	C5*	U	A	45	137.523	79.194	14.089	1.00	54.64	A16S
ATOM	866	C4*	U	A	45	139.000	78.905	14.223	1.00	54.64	A16S
ATOM	867	O4*	U	A	45	139.446	79.306	15.541	1.00	54.64	A16S
ATOM	868	C1*	U	A	45	140.421	78.397	16.012	1.00	54.64	A16S
ATOM	869	N1	U	A	45	139.917	77.789	17.246	1.00	54.09	A16S
ATOM	870	C6	U	A	45	138.585	77.823	17.566	1.00	54.09	A16S
ATOM	871	C2	U	A	45	140.831	77.174	18.064	1.00	54.09	A16S
ATOM	872	O2	U	A	45	142.026	77.133	17.805	1.00	54.09	A16S
ATOM	873	N3	U	A	45	140.302	76.600	19.192	1.00	54.09	A16S
ATOM	874	C4	U	A	45	138.974	76.578	19.567	1.00	54.09	A16S
ATOM	875	O4	U	A	45	138.631	75.924	20.555	1.00	54.09	A16S
ATOM	876	C5	U	A	45	138.095	77.256	18.667	1.00	54.09	A16S
ATOM	877	C2*	U	A	45	140.670	77.353	14.924	1.00	54.64	A16S
ATOM	878	O2*	U	A	45	141.823	77.692	14.195	1.00	54.64	A16S
ATOM	879	C3*	U	A	45	139.388	77.443	14.112	1.00	54.64	A16S
ATOM	880	O3*	U	A	45	139.596	77.077	12.766	1.00	54.64	A16S
ATOM	881	P	G	A	46	139.615	75.528	12.373	1.00	42.04	A16S
ATOM	882	O1P	G	A	46	139.768	75.440	10.896	1.00	52.26	A16S
ATOM	883	O2P	G	A	46	138.454	74.859	13.024	1.00	52.26	A16S
ATOM	884	O5*	G	A	46	140.970	75.016	13.034	1.00	42.04	A16S
ATOM	885	C5*	G	A	46	142.226	75.313	12.411	1.00	42.04	A16S
ATOM	886	C4*	G	A	46	143.350	74.618	13.131	1.00	42.04	A16S
ATOM	887	O4*	G	A	46	143.464	75.152	14.475	1.00	42.04	A16S
ATOM	888	C1*	G	A	46	143.858	74.127	15.366	1.00	42.04	A16S
ATOM	889	N9	G	A	46	142.793	73.948	16.344	1.00	52.26	A16S
ATOM	890	C4	G	A	46	142.920	73.449	17.616	1.00	52.26	A16S
ATOM	891	N3	G	A	46	144.069	73.060	18.204	1.00	52.26	A16S
ATOM	892	C2	G	A	46	143.866	72.608	19.425	1.00	52.26	A16S
ATOM	893	N2	G	A	46	144.900	72.204	20.160	1.00	52.26	A16S
ATOM	894	N1	G	A	46	142.634	72.521	20.016	1.00	52.26	A16S
ATOM	895	C6	G	A	46	141.434	72.897	19.421	1.00	52.26	A16S
ATOM	896	O6	G	A	46	140.360	72.735	20.028	1.00	52.26	A16S
ATOM	897	C5	G	A	46	141.642	73.416	18.124	1.00	52.26	A16S
ATOM	898	N7	G	A	46	140.733	73.915	17.203	1.00	52.26	A16S
ATOM	899	C8	G	A	46	141.460	74.220	16.166	1.00	52.26	A16S
ATOM	900	C2*	G	A	46	144.084	72.866	14.534	1.00	42.04	A16S
ATOM	901	O2*	G	A	46	145.442	72.832	14.153	1.00	42.04	A16S
ATOM	902	C3*	G	A	46	143.188	73.126	13.334	1.00	42.04	A16S
ATOM	903	O3*	G	A	46	143.583	72.391	12.194	1.00	42.04	A16S
ATOM	904	P	C	A	47	142.715	71.112	11.751	1.00	53.14	A16S
ATOM	905	O1P	C	A	47	141.454	71.554	11.101	1.00	60.88	A16S
ATOM	906	O2P	C	A	47	142.650	70.195	12.912	1.00	60.88	A16S
ATOM	907	O5*	C	A	47	143.611	70.447	10.622	1.00	53.14	A16S
ATOM	908	C5*	C	A	47	144.906	69.927	10.942	1.00	53.14	A16S
ATOM	909	C4*	C	A	47	145.748	69.811	9.698	1.00	53.14	A16S
ATOM	910	O4*	C	A	47	147.065	69.364	10.094	1.00	53.14	A16S
ATOM	911	C1*	C	A	47	147.387	68.182	9.403	1.00	53.14	A16S
ATOM	912	N1	C	A	47	148.255	67.372	10.265	1.00	60.88	A16S
ATOM	913	C6	C	A	47	147.968	67.197	11.591	1.00	60.88	A16S
ATOM	914	C2	C	A	47	149.423	66.821	9.711	1.00	60.88	A16S
ATOM	915	O2	C	A	47	149.619	66.922	8.484	1.00	60.88	A16S
ATOM	916	N3	C	A	47	150.300	66.188	10.524	1.00	60.88	A16S
ATOM	917	C4	C	A	47	150.037	66.074	11.828	1.00	60.88	A16S

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ATOM	918	N4	C	A	47	150.954	65.493	12.600	1.00	60.88	A16S
ATOM	919	C5	C	A	47	148.825	66.564	12.401	1.00	60.88	A16S
ATOM	920	C2*	C	A	47	146.068	67.571	8.946	1.00	53.14	A16S
ATOM	921	O2*	C	A	47	146.299	66.776	7.804	1.00	53.14	A16S
ATOM	922	C3*	C	A	47	145.262	68.829	8.635	1.00	53.14	A16S
ATOM	923	O3*	C	A	47	145.712	69.335	7.380	1.00	53.14	A16S
ATOM	924	P	C	A	48	144.663	69.741	6.236	1.00	57.57	A16S
ATOM	925	O1P	C	A	48	143.533	70.460	6.890	1.00	81.11	A16S
ATOM	926	O2P	C	A	48	144.389	68.577	5.328	1.00	81.11	A16S
ATOM	927	O5*	C	A	48	145.493	70.788	5.384	1.00	57.57	A16S
ATOM	928	C5*	C	A	48	146.116	71.900	6.021	1.00	57.57	A16S
ATOM	929	C4*	C	A	48	147.088	72.559	5.078	1.00	57.57	A16S
ATOM	930	O4*	C	A	48	147.138	73.965	5.341	1.00	57.57	A16S
ATOM	931	C1*	C	A	48	148.425	74.455	5.092	1.00	57.57	A16S
ATOM	932	N1	C	A	48	148.618	75.550	6.057	1.00	81.11	A16S
ATOM	933	C6	C	A	48	148.764	75.302	7.395	1.00	81.11	A16S
ATOM	934	C2	C	A	48	148.593	76.865	5.586	1.00	81.11	A16S
ATOM	935	O2	C	A	48	148.509	77.065	4.359	1.00	81.11	A16S
ATOM	936	N3	C	A	48	148.660	77.889	6.474	1.00	81.11	A16S
ATOM	937	C4	C	A	48	148.768	77.636	7.779	1.00	81.11	A16S
ATOM	938	N4	C	A	48	148.814	78.678	8.616	1.00	81.11	A16S
ATOM	939	C5	C	A	48	148.835	76.306	8.283	1.00	81.11	A16S
ATOM	940	C2*	C	A	48	149.416	73.285	5.139	1.00	57.57	A16S
ATOM	941	O2*	C	A	48	150.343	73.369	4.078	1.00	57.57	A16S
ATOM	942	C3*	C	A	48	148.512	72.041	5.096	1.00	57.57	A16S
ATOM	943	O3*	C	A	48	148.739	70.994	4.119	1.00	57.57	A16S
ATOM	944	P	U	A	49	148.456	71.241	2.533	1.00	59.19	A16S
ATOM	945	O1P	U	A	49	147.315	70.342	2.141	1.00	54.75	A16S
ATOM	946	O2P	U	A	49	148.382	72.700	2.216	1.00	54.75	A16S
ATOM	947	O5*	U	A	49	149.753	70.640	1.835	1.00	59.19	A16S
ATOM	948	C5*	U	A	49	149.962	69.226	1.821	1.00	59.19	A16S
ATOM	949	C4*	U	A	49	151.437	68.897	1.839	1.00	59.19	A16S
ATOM	950	O4*	U	A	49	152.063	69.405	3.053	1.00	59.19	A16S
ATOM	951	C1*	U	A	49	152.613	68.333	3.791	1.00	59.19	A16S
ATOM	952	N1	U	A	49	152.387	68.590	5.221	1.00	54.75	A16S
ATOM	953	C6	U	A	49	151.205	69.116	5.674	1.00	54.75	A16S
ATOM	954	C2	U	A	49	153.405	68.280	6.104	1.00	54.75	A16S
ATOM	955	O2	U	A	49	154.478	67.811	5.752	1.00	54.75	A16S
ATOM	956	N3	U	A	49	153.127	68.541	7.423	1.00	54.75	A16S
ATOM	957	C4	U	A	49	151.968	69.069	7.938	1.00	54.75	A16S
ATOM	958	O4	U	A	49	151.886	69.284	9.145	1.00	54.75	A16S
ATOM	959	C5	U	A	49	150.968	69.359	6.967	1.00	54.75	A16S
ATOM	960	C2*	U	A	49	151.912	67.069	3.299	1.00	59.19	A16S
ATOM	961	O2*	U	A	49	152.678	65.901	3.499	1.00	59.19	A16S
ATOM	962	C3*	U	A	49	151.666	67.394	1.832	1.00	59.19	A16S
ATOM	963	O3*	U	A	49	152.762	67.056	0.993	1.00	59.19	A16S
ATOM	964	P	A	A	50	152.535	66.018	-0.215	1.00	65.83	A16S
ATOM	965	O1P	A	A	50	151.709	66.662	-1.271	1.00	62.41	A16S
ATOM	966	O2P	A	A	50	153.858	65.448	-0.570	1.00	62.41	A16S
ATOM	967	O5*	A	A	50	151.686	64.858	0.461	1.00	65.83	A16S
ATOM	968	C5*	A	A	50	150.691	64.128	-0.269	1.00	65.83	A16S
ATOM	969	C4*	A	A	50	150.219	62.976	0.570	1.00	65.83	A16S
ATOM	970	O4*	A	A	50	151.328	62.052	0.723	1.00	65.83	A16S
ATOM	971	C1*	A	A	50	151.631	61.909	2.095	1.00	65.83	A16S
ATOM	972	N9	A	A	50	153.071	61.723	2.240	1.00	62.41	A16S
ATOM	973	C4	A	A	50	153.681	60.711	2.938	1.00	62.41	A16S
ATOM	974	N3	A	A	50	153.089	59.710	3.611	1.00	62.41	A16S
ATOM	975	C2	A	A	50	154.000	58.921	4.175	1.00	62.41	A16S
ATOM	976	N1	A	A	50	155.333	59.011	4.138	1.00	62.41	A16S
ATOM	977	C6	A	A	50	155.892	60.025	3.442	1.00	62.41	A16S
ATOM	978	N6	A	A	50	157.221	60.111	3.385	1.00	62.41	A16S
ATOM	979	C5	A	A	50	155.037	60.932	2.810	1.00	62.41	A16S
ATOM	980	N7	A	A	50	155.280	62.059	2.042	1.00	62.41	A16S
ATOM	981	C8	A	A	50	154.083	62.490	1.730	1.00	62.41	A16S
ATOM	982	C2*	A	A	50	151.078	63.154	2.784	1.00	65.83	A16S
ATOM	983	O2*	A	A	50	150.855	62.920	4.158	1.00	65.83	A16S
ATOM	984	C3*	A	A	50	149.805	63.390	1.982	1.00	65.83	A16S
ATOM	985	O3*	A	A	50	148.791	62.498	2.459	1.00	65.83	A16S
ATOM	986	P	A	A	51	147.359	63.070	2.933	1.00	61.64	A16S
ATOM	987	O1P	A	A	51	146.976	62.379	4.220	1.00	58.25	A16S
ATOM	988	O2P	A	A	51	147.479	64.558	2.910	1.00	58.25	A16S
ATOM	989	O5*	A	A	51	146.380	62.611	1.753	1.00	61.64	A16S
ATOM	990	C5*	A	A	51	146.597	63.100	0.426	1.00	61.64	A16S
ATOM	991	C4*	A	A	51	145.915	62.230	-0.592	1.00	61.64	A16S
ATOM	992	O4*	A	A	51	144.486	62.348	-0.457	1.00	61.64	A16S
ATOM	993	C1*	A	A	51	143.886	62.143	-1.722	1.00	61.64	A16S
ATOM	994	N9	A	A	51	142.658	62.937	-1.822	1.00	58.25	A16S

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ATOM	995	C4	A	A	51	141.676	62.791	-2.776	1.00	58.25	A16S
ATOM	996	N3	A	A	51	141.667	61.950	-3.819	1.00	58.25	A16S
ATOM	997	C2	A	A	51	140.536	62.067	-4.507	1.00	58.25	A16S
ATOM	998	N1	A	A	51	139.495	62.866	-4.289	1.00	58.25	A16S
ATOM	999	C6	A	A	51	139.537	63.698	-3.235	1.00	58.25	A16S
ATOM	1000	N6	A	A	51	138.497	64.493	-3.013	1.00	58.25	A16S
ATOM	1001	C5	A	A	51	140.677	63.676	-2.429	1.00	58.25	A16S
ATOM	1002	N7	A	A	51	141.027	64.391	-1.296	1.00	58.25	A16S
ATOM	1003	C8	A	A	51	142.213	63.927	-0.983	1.00	58.25	A16S
ATOM	1004	C2*	A	A	51	144.936	62.346	-2.817	1.00	61.64	A16S
ATOM	1005	O2*	A	A	51	145.047	61.201	-3.632	1.00	61.64	A16S
ATOM	1006	C3*	A	A	51	146.194	62.687	-2.017	1.00	61.64	A16S
ATOM	1007	O3*	A	A	51	147.443	62.166	-2.548	1.00	61.64	A16S
ATOM	1008	P	G	A	52	147.898	60.623	-2.276	1.00	56.29	A16S
ATOM	1009	O1P	G	A	52	146.786	59.659	-2.529	1.00	61.46	A16S
ATOM	1010	O2P	G	A	52	149.197	60.430	-2.965	1.00	61.46	A16S
ATOM	1011	O5*	G	A	52	148.237	60.599	-0.718	1.00	56.29	A16S
ATOM	1012	C5*	G	A	52	147.768	59.537	0.114	1.00	56.29	A16S
ATOM	1013	C4*	G	A	52	148.872	58.547	0.359	1.00	56.29	A16S
ATOM	1014	O4*	G	A	52	149.886	59.145	1.211	1.00	56.29	A16S
ATOM	1015	C1*	G	A	52	150.373	58.177	2.133	1.00	56.29	A16S
ATOM	1016	N9	G	A	52	150.032	58.614	3.488	1.00	61.46	A16S
ATOM	1017	C4	G	A	52	150.393	57.996	4.661	1.00	61.46	A16S
ATOM	1018	N3	G	A	52	151.166	56.900	4.773	1.00	61.46	A16S
ATOM	1019	C2	G	A	52	151.322	56.537	6.037	1.00	61.46	A16S
ATOM	1020	N2	G	A	52	152.085	55.474	6.346	1.00	61.46	A16S
ATOM	1021	N1	G	A	52	150.749	57.189	7.097	1.00	61.46	A16S
ATOM	1022	C6	G	A	52	149.943	58.312	7.002	1.00	61.46	A16S
ATOM	1023	O6	G	A	52	149.467	58.808	8.019	1.00	61.46	A16S
ATOM	1024	C5	G	A	52	149.784	58.726	5.662	1.00	61.46	A16S
ATOM	1025	N7	G	A	52	149.080	59.798	5.135	1.00	61.46	A16S
ATOM	1026	C8	G	A	52	149.261	59.698	3.847	1.00	61.46	A16S
ATOM	1027	C2*	G	A	52	149.701	56.847	1.786	1.00	56.29	A16S
ATOM	1028	O2*	G	A	52	150.503	56.135	0.874	1.00	56.29	A16S
ATOM	1029	C3*	G	A	52	148.421	57.320	1.120	1.00	56.29	A16S
ATOM	1030	O3*	G	A	52	147.848	56.355	0.256	1.00	56.29	A16S
ATOM	1031	P	A	A	53	146.710	55.374	0.828	1.00	46.61	A16S
ATOM	1032	O1P	A	A	53	146.452	54.330	-0.210	1.00	60.83	A16S
ATOM	1033	O2P	A	A	53	145.552	56.195	1.360	1.00	60.83	A16S
ATOM	1034	O5*	A	A	53	147.463	54.683	2.052	1.00	46.61	A16S
ATOM	1035	C5*	A	A	53	148.544	53.759	1.808	1.00	46.61	A16S
ATOM	1036	C4*	A	A	53	148.840	52.951	3.045	1.00	46.61	A16S
ATOM	1037	O4*	A	A	53	149.520	53.784	4.016	1.00	46.61	A16S
ATOM	1038	C1*	A	A	53	149.104	53.428	5.321	1.00	46.61	A16S
ATOM	1039	N9	A	A	53	148.450	54.596	5.910	1.00	60.83	A16S
ATOM	1040	C4	A	A	53	148.317	54.881	7.244	1.00	60.83	A16S
ATOM	1041	N3	A	A	53	148.771	54.163	8.277	1.00	60.83	A16S
ATOM	1042	C2	A	A	53	148.446	54.747	9.428	1.00	60.83	A16S
ATOM	1043	N1	A	A	53	147.770	55.876	9.643	1.00	60.83	A16S
ATOM	1044	C6	A	A	53	147.326	56.566	8.581	1.00	60.83	A16S
ATOM	1045	N6	A	A	53	146.641	57.681	8.796	1.00	60.83	A16S
ATOM	1046	C5	A	A	53	147.608	56.062	7.310	1.00	60.83	A16S
ATOM	1047	N7	A	A	53	147.308	56.523	6.042	1.00	60.83	A16S
ATOM	1048	C8	A	A	53	147.830	55.623	5.248	1.00	60.83	A16S
ATOM	1049	C2*	A	A	53	148.146	52.238	5.192	1.00	46.61	A16S
ATOM	1050	O2*	A	A	53	148.840	51.022	5.332	1.00	46.61	A16S
ATOM	1051	C3*	A	A	53	147.627	52.403	3.774	1.00	46.61	A16S
ATOM	1052	O3*	A	A	53	147.159	51.179	3.220	1.00	46.61	A16S
ATOM	1053	P	C	A	54	145.733	50.588	3.687	1.00	50.71	A16S
ATOM	1054	O1P	C	A	54	145.651	49.207	3.133	1.00	55.41	A16S
ATOM	1055	O2P	C	A	54	144.647	51.554	3.382	1.00	55.41	A16S
ATOM	1056	O5*	C	A	54	145.907	50.510	5.271	1.00	50.71	A16S
ATOM	1057	C5*	C	A	54	144.803	50.667	6.177	1.00	50.71	A16S
ATOM	1058	C4*	C	A	54	145.324	50.697	7.594	1.00	50.71	A16S
ATOM	1059	O4*	C	A	54	146.095	51.911	7.793	1.00	50.71	A16S
ATOM	1060	C1*	C	A	54	145.957	52.352	9.136	1.00	50.71	A16S
ATOM	1061	N1	C	A	54	145.369	53.698	9.147	1.00	55.41	A16S
ATOM	1062	C6	C	A	54	144.887	54.274	8.007	1.00	55.41	A16S
ATOM	1063	C2	C	A	54	145.270	54.364	10.370	1.00	55.41	A16S
ATOM	1064	O2	C	A	54	145.775	53.843	11.382	1.00	55.41	A16S
ATOM	1065	N3	C	A	54	144.633	55.549	10.422	1.00	55.41	A16S
ATOM	1066	C4	C	A	54	144.115	56.074	9.314	1.00	55.41	A16S
ATOM	1067	N4	C	A	54	143.441	57.212	9.425	1.00	55.41	A16S
ATOM	1068	C5	C	A	54	144.254	55.447	8.047	1.00	55.41	A16S
ATOM	1069	C2*	C	A	54	145.022	51.384	9.864	1.00	50.71	A16S
ATOM	1070	O2*	C	A	54	145.759	50.527	10.710	1.00	50.71	A16S
ATOM	1071	C3*	C	A	54	144.285	50.717	8.703	1.00	50.71	A16S

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ATOM	1072	O3*	C	A	54	143.833	49.401	9.019	1.00	50.71	A16S
ATOM	1073	P	A	A	55	142.749	49.187	10.188	1.00	49.08	A16S
ATOM	1074	O1P	A	A	55	142.005	47.930	9.885	1.00	71.84	A16S
ATOM	1075	O2P	A	A	55	141.993	50.458	10.347	1.00	71.84	A16S
ATOM	1076	O5*	A	A	55	143.648	48.969	11.494	1.00	49.08	A16S
ATOM	1077	C5*	A	A	55	144.553	47.841	11.600	1.00	49.08	A16S
ATOM	1078	C4*	A	A	55	144.777	47.470	13.052	1.00	49.08	A16S
ATOM	1079	O4*	A	A	55	145.576	48.477	13.717	1.00	49.08	A16S
ATOM	1080	C1*	A	A	55	145.239	48.516	15.094	1.00	49.08	A16S
ATOM	1081	N9	A	A	55	145.054	49.909	15.486	1.00	71.84	A16S
ATOM	1082	C4	A	A	55	144.580	50.368	16.690	1.00	71.84	A16S
ATOM	1083	N3	A	A	55	144.207	49.638	17.751	1.00	71.84	A16S
ATOM	1084	C2	A	A	55	143.784	50.429	18.738	1.00	71.84	A16S
ATOM	1085	N1	A	A	55	143.693	51.760	18.779	1.00	71.84	A16S
ATOM	1086	C6	A	A	55	144.070	52.462	17.694	1.00	71.84	A16S
ATOM	1087	N6	A	A	55	143.963	53.790	17.728	1.00	71.84	A16S
ATOM	1088	C5	A	A	55	144.549	51.743	16.584	1.00	71.84	A16S
ATOM	1089	N7	A	A	55	145.014	52.146	15.342	1.00	71.84	A16S
ATOM	1090	C8	A	A	55	145.303	51.023	14.734	1.00	71.84	A16S
ATOM	1091	C2*	A	A	55	144.015	47.621	15.322	1.00	49.08	A16S
ATOM	1092	O2*	A	A	55	144.374	46.462	16.039	1.00	49.08	A16S
ATOM	1093	C3*	A	A	55	143.522	47.360	13.897	1.00	49.08	A16S
ATOM	1094	O3*	A	A	55	142.942	46.070	13.759	1.00	49.08	A16S
ATOM	1095	P	U	A	56	141.354	45.890	13.937	1.00	61.03	A16S
ATOM	1096	O1P	U	A	56	141.097	44.427	14.068	1.00	77.87	A16S
ATOM	1097	O2P	U	A	56	140.642	46.669	12.874	1.00	77.87	A16S
ATOM	1098	O5*	U	A	56	141.066	46.582	15.345	1.00	61.03	A16S
ATOM	1099	C5*	U	A	56	141.410	45.925	16.575	1.00	61.03	A16S
ATOM	1100	C4*	U	A	56	140.862	46.700	17.741	1.00	61.03	A16S
ATOM	1101	O4*	U	A	56	141.684	47.868	17.968	1.00	61.03	A16S
ATOM	1102	C1*	U	A	56	140.864	48.963	18.353	1.00	61.03	A16S
ATOM	1103	N1	U	A	56	140.997	50.024	17.337	1.00	77.87	A16S
ATOM	1104	C6	U	A	56	141.354	49.731	16.035	1.00	77.87	A16S
ATOM	1105	C2	U	A	56	140.758	51.330	17.725	1.00	77.87	A16S
ATOM	1106	O2	U	A	56	140.422	51.637	18.857	1.00	77.87	A16S
ATOM	1107	N3	U	A	56	140.921	52.266	16.734	1.00	77.87	A16S
ATOM	1108	C4	U	A	56	141.281	52.037	15.420	1.00	77.87	A16S
ATOM	1109	O4	U	A	56	141.357	52.985	14.638	1.00	77.87	A16S
ATOM	1110	C5	U	A	56	141.500	50.666	15.094	1.00	77.87	A16S
ATOM	1111	C2*	U	A	56	139.433	48.444	18.481	1.00	61.03	A16S
ATOM	1112	O2*	U	A	56	139.180	48.058	19.816	1.00	61.03	A16S
ATOM	1113	C3*	U	A	56	139.459	47.250	17.544	1.00	61.03	A16S
ATOM	1114	O3*	U	A	56	138.448	46.317	17.861	1.00	61.03	A16S
ATOM	1115	P	G	A	57	136.966	46.547	17.292	1.00	64.08	A16S
ATOM	1116	O1P	G	A	57	136.127	45.384	17.691	1.00	69.62	A16S
ATOM	1117	O2P	G	A	57	137.079	46.903	15.853	1.00	69.62	A16S
ATOM	1118	O5*	G	A	57	136.454	47.824	18.094	1.00	64.08	A16S
ATOM	1119	C5*	G	A	57	136.271	47.774	19.523	1.00	64.08	A16S
ATOM	1120	C4*	G	A	57	135.649	49.058	20.025	1.00	64.08	A16S
ATOM	1121	O4*	G	A	57	136.611	50.146	19.947	1.00	64.08	A16S
ATOM	1122	C1*	G	A	57	135.938	51.359	19.633	1.00	64.08	A16S
ATOM	1123	N9	G	A	57	136.442	51.863	18.354	1.00	69.62	A16S
ATOM	1124	C4	G	A	57	136.520	53.183	17.976	1.00	69.62	A16S
ATOM	1125	N3	G	A	57	136.160	54.246	18.727	1.00	69.62	A16S
ATOM	1126	C2	G	A	57	136.362	55.392	18.095	1.00	69.62	A16S
ATOM	1127	N2	G	A	57	136.071	56.548	18.709	1.00	69.62	A16S
ATOM	1128	N1	G	A	57	136.866	55.487	16.821	1.00	69.62	A16S
ATOM	1129	C6	G	A	57	137.239	54.409	16.027	1.00	69.62	A16S
ATOM	1130	O6	G	A	57	137.677	54.608	14.894	1.00	69.62	A16S
ATOM	1131	C5	G	A	57	137.036	53.169	16.696	1.00	69.62	A16S
ATOM	1132	N7	G	A	57	137.277	51.868	16.276	1.00	69.62	A16S
ATOM	1133	C8	G	A	57	136.914	51.129	17.289	1.00	69.62	A16S
ATOM	1134	C2*	G	A	57	134.440	51.049	19.576	1.00	64.08	A16S
ATOM	1135	O2*	G	A	57	133.848	51.299	20.836	1.00	64.08	A16S
ATOM	1136	C3*	G	A	57	134.449	49.565	19.241	1.00	64.08	A16S
ATOM	1137	O3*	G	A	57	133.239	48.931	19.601	1.00	64.08	A16S
ATOM	1138	P	C	A	58	132.078	48.785	18.502	1.00	74.25	A16S
ATOM	1139	O1P	C	A	58	130.960	48.022	19.128	1.00	61.41	A16S
ATOM	1140	O2P	C	A	58	132.689	48.301	17.230	1.00	61.41	A16S
ATOM	1141	O5*	C	A	58	131.566	50.280	18.294	1.00	74.25	A16S
ATOM	1142	C5*	C	A	58	130.846	50.955	19.345	1.00	74.25	A16S
ATOM	1143	C4*	C	A	58	130.756	52.440	19.076	1.00	74.25	A16S
ATOM	1144	O4*	C	A	58	132.090	53.006	18.999	1.00	74.25	A16S
ATOM	1145	C1*	C	A	58	132.106	54.061	18.050	1.00	74.25	A16S
ATOM	1146	N1	C	A	58	132.968	53.659	16.918	1.00	61.41	A16S
ATOM	1147	C6	C	A	58	133.042	52.347	16.529	1.00	61.41	A16S
ATOM	1148	C2	C	A	58	133.693	54.640	16.226	1.00	61.41	A16S

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ATOM	1149	O2	C	A	58	133.637	55.820	16.605	1.00	61.41	A16S
ATOM	1150	N3	C	A	58	134.440	54.273	15.164	1.00	61.41	A16S
ATOM	1151	C4	C	A	58	134.494	52.993	14.792	1.00	61.41	A16S
ATOM	1152	N4	C	A	58	135.253	52.681	13.746	1.00	61.41	A16S
ATOM	1153	C5	C	A	58	133.782	51.976	15.482	1.00	61.41	A16S
ATOM	1154	C2*	C	A	58	130.666	54.262	17.580	1.00	74.25	A16S
ATOM	1155	O2*	C	A	58	130.024	55.202	18.418	1.00	74.25	A16S
ATOM	1156	C3*	C	A	58	130.085	52.874	17.784	1.00	74.25	A16S
ATOM	1157	O3*	C	A	58	128.677	52.941	17.902	1.00	74.25	A16S
ATOM	1158	P	A	A	59	127.762	52.733	16.596	1.00	71.25	A16S
ATOM	1159	O1P	A	A	59	126.345	52.823	17.070	1.00	83.41	A16S
ATOM	1160	O2P	A	A	59	128.224	51.509	15.895	1.00	83.41	A16S
ATOM	1161	O5*	A	A	59	128.100	53.979	15.656	1.00	71.25	A16S
ATOM	1162	C5*	A	A	59	127.773	55.314	16.067	1.00	71.25	A16S
ATOM	1163	C4*	A	A	59	128.225	56.316	15.032	1.00	71.25	A16S
ATOM	1164	O4*	A	A	59	129.656	56.191	14.833	1.00	71.25	A16S
ATOM	1165	C1*	A	A	59	129.986	56.571	13.507	1.00	71.25	A16S
ATOM	1166	N9	A	A	59	130.761	55.500	12.863	1.00	83.41	A16S
ATOM	1167	C4	A	A	59	131.124	55.480	11.535	1.00	83.41	A16S
ATOM	1168	N3	A	A	59	130.858	56.413	10.605	1.00	83.41	A16S
ATOM	1169	C2	A	A	59	131.340	56.050	9.422	1.00	83.41	A16S
ATOM	1170	N1	A	A	59	132.002	54.947	9.083	1.00	83.41	A16S
ATOM	1171	C6	A	A	59	132.256	54.027	10.037	1.00	83.41	A16S
ATOM	1172	N6	A	A	59	132.910	52.920	9.688	1.00	83.41	A16S
ATOM	1173	C5	A	A	59	131.805	54.295	11.344	1.00	83.41	A16S
ATOM	1174	N7	A	A	59	131.899	53.585	12.535	1.00	83.41	A16S
ATOM	1175	C8	A	A	59	131.267	54.339	13.403	1.00	83.41	A16S
ATOM	1176	C2*	A	A	59	128.681	56.921	12.786	1.00	71.25	A16S
ATOM	1177	O2*	A	A	59	128.525	58.322	12.820	1.00	71.25	A16S
ATOM	1178	C3*	A	A	59	127.637	56.206	13.635	1.00	71.25	A16S
ATOM	1179	O3*	A	A	59	126.381	56.869	13.563	1.00	71.25	A16S
ATOM	1180	P	A	A	60	125.502	56.787	12.213	1.00	43.52	A16S
ATOM	1181	O1P	A	A	60	126.349	57.251	11.096	1.00	64.26	A16S
ATOM	1182	O2P	A	A	60	124.174	57.416	12.448	1.00	64.26	A16S
ATOM	1183	O5*	A	A	60	125.235	55.241	11.989	1.00	43.52	A16S
ATOM	1184	C5*	A	A	60	124.538	54.476	12.977	1.00	43.52	A16S
ATOM	1185	C4*	A	A	60	123.439	53.685	12.331	1.00	43.52	A16S
ATOM	1186	O4*	A	A	60	122.471	54.603	11.764	1.00	43.52	A16S
ATOM	1187	C1*	A	A	60	122.135	54.201	10.451	1.00	43.52	A16S
ATOM	1188	N9	A	A	60	121.798	55.399	9.686	1.00	64.26	A16S
ATOM	1189	C4	A	A	60	120.608	55.612	9.039	1.00	64.26	A16S
ATOM	1190	N3	A	A	60	119.560	54.776	8.972	1.00	64.26	A16S
ATOM	1191	C2	A	A	60	118.570	55.322	8.273	1.00	64.26	A16S
ATOM	1192	N1	A	A	60	118.514	56.515	7.675	1.00	64.26	A16S
ATOM	1193	C6	A	A	60	119.586	57.329	7.753	1.00	64.26	A16S
ATOM	1194	N6	A	A	60	119.528	58.513	7.144	1.00	64.26	A16S
ATOM	1195	C5	A	A	60	120.703	56.869	8.475	1.00	64.26	A16S
ATOM	1196	N7	A	A	60	121.937	57.438	8.753	1.00	64.26	A16S
ATOM	1197	C8	A	A	60	122.549	56.526	9.470	1.00	64.26	A16S
ATOM	1198	C2*	A	A	60	123.321	53.414	9.905	1.00	43.52	A16S
ATOM	1199	O2*	A	A	60	122.824	52.477	8.984	1.00	43.52	A16S
ATOM	1200	C3*	A	A	60	123.874	52.794	11.184	1.00	43.52	A16S
ATOM	1201	O3*	A	A	60	124.261	51.431	11.405	1.00	43.52	A16S
ATOM	1202	P	G	A	61	123.170	50.319	11.832	1.00	59.72	A16S
ATOM	1203	O1P	G	A	61	123.978	49.134	12.215	1.00	36.64	A16S
ATOM	1204	O2P	G	A	61	122.086	50.169	10.804	1.00	36.64	A16S
ATOM	1205	O5*	G	A	61	122.547	50.885	13.184	1.00	59.72	A16S
ATOM	1206	C5*	G	A	61	121.248	50.461	13.629	1.00	59.72	A16S
ATOM	1207	C4*	G	A	61	120.259	51.579	13.433	1.00	59.72	A16S
ATOM	1208	O4*	G	A	61	120.193	51.910	12.024	1.00	59.72	A16S
ATOM	1209	C1*	G	A	61	118.870	52.283	11.681	1.00	59.72	A16S
ATOM	1210	N9	G	A	61	118.387	51.334	10.683	1.00	36.64	A16S
ATOM	1211	C4	G	A	61	117.241	51.431	9.932	1.00	36.64	A16S
ATOM	1212	N3	G	A	61	116.349	52.432	9.980	1.00	36.64	A16S
ATOM	1213	C2	G	A	61	115.371	52.253	9.118	1.00	36.64	A16S
ATOM	1214	N2	G	A	61	114.412	53.167	9.017	1.00	36.64	A16S
ATOM	1215	N1	G	A	61	115.264	51.169	8.284	1.00	36.64	A16S
ATOM	1216	C6	G	A	61	116.169	50.118	8.227	1.00	36.64	A16S
ATOM	1217	O6	G	A	61	115.982	49.169	7.446	1.00	36.64	A16S
ATOM	1218	C5	G	A	61	117.230	50.306	9.133	1.00	36.64	A16S
ATOM	1219	N7	G	A	61	118.343	49.518	9.375	1.00	36.64	A16S
ATOM	1220	C8	G	A	61	118.998	50.163	10.303	1.00	36.64	A16S
ATOM	1221	C2*	G	A	61	118.049	52.284	12.970	1.00	59.72	A16S
ATOM	1222	O2*	G	A	61	118.103	53.581	13.537	1.00	59.72	A16S
ATOM	1223	C3*	G	A	61	118.823	51.286	13.815	1.00	59.72	A16S
ATOM	1224	O3*	G	A	61	118.627	51.502	15.192	1.00	59.72	A16S
ATOM	1225	P	U	A	62	117.762	50.448	16.037	1.00	48.67	A16S

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ATOM	1226	O1P	U	A	62	117.989	49.069	15.501	1.00	47.20	A16S
ATOM	1227	O2P	U	A	62	118.035	50.736	17.474	1.00	47.20	A16S
ATOM	1228	O5*	U	A	62	116.253	50.802	15.683	1.00	48.67	A16S
ATOM	1229	C5*	U	A	62	115.788	52.142	15.725	1.00	48.67	A16S
ATOM	1230	C4*	U	A	62	114.559	52.264	14.877	1.00	48.67	A16S
ATOM	1231	O4*	U	A	62	114.881	52.070	13.482	1.00	48.67	A16S
ATOM	1232	C1*	U	A	62	113.824	51.401	12.828	1.00	48.67	A16S
ATOM	1233	N1	U	A	62	114.382	50.233	12.137	1.00	47.20	A16S
ATOM	1234	C6	U	A	62	115.542	49.634	12.576	1.00	47.20	A16S
ATOM	1235	C2	U	A	62	113.709	49.755	11.032	1.00	47.20	A16S
ATOM	1236	O2	U	A	62	112.682	50.257	10.617	1.00	47.20	A16S
ATOM	1237	N3	U	A	62	114.286	48.668	10.429	1.00	47.20	A16S
ATOM	1238	C4	U	A	62	115.449	48.026	10.808	1.00	47.20	A16S
ATOM	1239	O4	U	A	62	115.912	47.131	10.092	1.00	47.20	A16S
ATOM	1240	C5	U	A	62	116.081	48.578	11.968	1.00	47.20	A16S
ATOM	1241	C2*	U	A	62	112.755	51.080	13.868	1.00	48.67	A16S
ATOM	1242	O2*	U	A	62	111.739	52.027	13.713	1.00	48.67	A16S
ATOM	1243	C3*	U	A	62	113.540	51.199	15.176	1.00	48.67	A16S
ATOM	1244	O3*	U	A	62	112.814	51.633	16.306	1.00	48.67	A16S
ATOM	1245	P	C	A	63	111.835	50.619	17.059	1.00	42.85	A16S
ATOM	1246	O1P	C	A	63	112.338	49.227	16.851	1.00	41.95	A16S
ATOM	1247	O2P	C	A	63	111.595	51.124	18.453	1.00	41.95	A16S
ATOM	1248	O5*	C	A	63	110.493	50.771	16.227	1.00	42.85	A16S
ATOM	1249	C5*	C	A	63	109.586	49.710	16.214	1.00	42.85	A16S
ATOM	1250	C4*	C	A	63	108.606	49.867	15.107	1.00	42.85	A16S
ATOM	1251	O4*	C	A	63	109.285	50.130	13.864	1.00	42.85	A16S
ATOM	1252	C1*	C	A	63	108.710	49.333	12.837	1.00	42.85	A16S
ATOM	1253	N1	C	A	63	109.748	48.404	12.352	1.00	41.95	A16S
ATOM	1254	C6	C	A	63	110.886	48.176	13.087	1.00	41.95	A16S
ATOM	1255	C2	C	A	63	109.560	47.757	11.114	1.00	41.95	A16S
ATOM	1256	O2	C	A	63	108.511	47.974	10.477	1.00	41.95	A16S
ATOM	1257	N3	C	A	63	110.527	46.917	10.655	1.00	41.95	A16S
ATOM	1258	C4	C	A	63	111.637	46.719	11.379	1.00	41.95	A16S
ATOM	1259	N4	C	A	63	112.566	45.903	10.894	1.00	41.95	A16S
ATOM	1260	C5	C	A	63	111.846	47.354	12.641	1.00	41.95	A16S
ATOM	1261	C2*	C	A	63	107.502	48.603	13.428	1.00	42.85	A16S
ATOM	1262	O2*	C	A	63	106.328	49.347	13.170	1.00	42.85	A16S
ATOM	1263	C3*	C	A	63	107.887	48.554	14.900	1.00	42.85	A16S
ATOM	1264	O3*	C	A	63	106.834	48.469	15.833	1.00	42.85	A16S
ATOM	1265	P	G	A	64	107.046	47.635	17.187	1.00	66.54	A16S
ATOM	1266	O1P	G	A	64	106.248	48.319	18.230	1.00	55.61	A16S
ATOM	1267	O2P	G	A	64	108.479	47.367	17.440	1.00	55.61	A16S
ATOM	1268	O5*	G	A	64	106.297	46.281	16.830	1.00	66.54	A16S
ATOM	1269	C5*	G	A	64	104.972	46.333	16.256	1.00	66.54	A16S
ATOM	1270	C4*	G	A	64	104.252	45.033	16.473	1.00	66.54	A16S
ATOM	1271	O4*	G	A	64	104.865	44.040	15.626	1.00	66.54	A16S
ATOM	1272	C1*	G	A	64	104.846	42.797	16.283	1.00	66.54	A16S
ATOM	1273	N9	G	A	64	106.211	42.315	16.420	1.00	55.61	A16S
ATOM	1274	C4	G	A	64	106.695	41.166	15.852	1.00	55.61	A16S
ATOM	1275	N3	G	A	64	105.988	40.316	15.073	1.00	55.61	A16S
ATOM	1276	C2	G	A	64	106.707	39.280	14.688	1.00	55.61	A16S
ATOM	1277	N2	G	A	64	106.136	38.329	13.919	1.00	55.61	A16S
ATOM	1278	N1	G	A	64	108.028	39.099	15.033	1.00	55.61	A16S
ATOM	1279	C6	G	A	64	108.775	39.965	15.828	1.00	55.61	A16S
ATOM	1280	O6	G	A	64	109.958	39.707	16.074	1.00	55.61	A16S
ATOM	1281	C5	G	A	64	108.005	41.080	16.256	1.00	55.61	A16S
ATOM	1282	N7	G	A	64	108.344	42.163	17.057	1.00	55.61	A16S
ATOM	1283	C8	G	A	64	107.249	42.871	17.126	1.00	55.61	A16S
ATOM	1284	C2*	G	A	64	104.142	42.965	17.627	1.00	66.54	A16S
ATOM	1285	O2*	G	A	64	102.785	42.567	17.479	1.00	66.54	A16S
ATOM	1286	C3*	G	A	64	104.320	44.454	17.886	1.00	66.54	A16S
ATOM	1287	O3*	G	A	64	103.355	44.913	18.867	1.00	66.54	A16S
ATOM	1288	P	U	A	65	101.842	45.345	18.455	1.00	60.86	A16S
ATOM	1289	O1P	U	A	65	100.977	44.128	18.508	1.00	76.62	A16S
ATOM	1290	O2P	U	A	65	101.495	46.527	19.294	1.00	76.62	A16S
ATOM	1291	O5*	U	A	65	101.883	45.828	16.942	1.00	60.86	A16S
ATOM	1292	C5*	U	A	65	101.047	45.209	15.968	1.00	60.86	A16S
ATOM	1293	C4*	U	A	65	100.592	46.222	14.960	1.00	60.86	A16S
ATOM	1294	O4*	U	A	65	99.533	47.056	15.498	1.00	60.86	A16S
ATOM	1295	C1*	U	A	65	99.814	48.404	15.204	1.00	60.86	A16S
ATOM	1296	N1	U	A	65	99.159	49.267	16.197	1.00	76.62	A16S
ATOM	1297	C6	U	A	65	99.361	49.116	17.552	1.00	76.62	A16S
ATOM	1298	C2	U	A	65	98.315	50.251	15.708	1.00	76.62	A16S
ATOM	1299	O2	U	A	65	98.110	50.416	14.511	1.00	76.62	A16S
ATOM	1300	N3	U	A	65	97.719	51.034	16.668	1.00	76.62	A16S
ATOM	1301	C4	U	A	65	97.877	50.938	18.036	1.00	76.62	A16S
ATOM	1302	O4	U	A	65	97.294	51.738	18.770	1.00	76.62	A16S

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ATOM	1303	C5	U	A	65	98.762	49.896	18.463	1.00	76.62	A16S
ATOM	1304	C2*	U	A	65	101.334	48.493	15.120	1.00	60.86	A16S
ATOM	1305	O2*	U	A	65	101.722	49.611	14.338	1.00	60.86	A16S
ATOM	1306	C3*	U	A	65	101.665	47.167	14.436	1.00	60.86	A16S
ATOM	1307	O3*	U	A	65	101.482	47.314	13.039	1.00	60.86	A16S
ATOM	1308	P	G	A	66	102.555	46.684	12.039	1.00	57.53	A16S
ATOM	1309	O1P	G	A	66	103.689	46.140	12.853	1.00	39.84	A16S
ATOM	1310	O2P	G	A	66	102.816	47.714	11.004	1.00	39.84	A16S
ATOM	1311	O5*	G	A	66	101.770	45.480	11.360	1.00	57.53	A16S
ATOM	1312	C5*	G	A	66	100.581	45.723	10.588	1.00	57.53	A16S
ATOM	1313	C4*	G	A	66	100.676	45.017	9.262	1.00	57.53	A16S
ATOM	1314	O4*	G	A	66	101.772	45.586	8.502	1.00	57.53	A16S
ATOM	1315	C1*	G	A	66	102.497	44.555	7.847	1.00	57.53	A16S
ATOM	1316	N9	G	A	66	103.821	44.466	8.465	1.00	39.84	A16S
ATOM	1317	C4	G	A	66	104.743	43.457	8.292	1.00	39.84	A16S
ATOM	1318	N3	G	A	66	104.592	42.372	7.504	1.00	39.84	A16S
ATOM	1319	C2	G	A	66	105.630	41.551	7.596	1.00	39.84	A16S
ATOM	1320	N2	G	A	66	105.637	40.406	6.904	1.00	39.84	A16S
ATOM	1321	N1	G	A	66	106.737	41.785	8.379	1.00	39.84	A16S
ATOM	1322	C6	G	A	66	106.921	42.905	9.184	1.00	39.84	A16S
ATOM	1323	O6	G	A	66	107.964	43.031	9.842	1.00	39.84	A16S
ATOM	1324	C5	G	A	66	105.805	43.786	9.115	1.00	39.84	A16S
ATOM	1325	N7	G	A	66	105.566	44.984	9.776	1.00	39.84	A16S
ATOM	1326	C8	G	A	66	104.386	45.354	9.356	1.00	39.84	A16S
ATOM	1327	C2*	G	A	66	101.707	43.264	8.044	1.00	57.53	A16S
ATOM	1328	O2*	G	A	66	100.811	43.094	6.964	1.00	57.53	A16S
ATOM	1329	C3*	G	A	66	101.015	43.543	9.371	1.00	57.53	A16S
ATOM	1330	O3*	G	A	66	99.869	42.742	9.623	1.00	57.53	A16S
ATOM	1331	P	C	A	67	99.968	41.532	10.680	1.00	73.43	A16S
ATOM	1332	O1P	C	A	67	98.603	40.934	10.753	1.00	39.06	A16S
ATOM	1333	O2P	C	A	67	100.633	42.016	11.923	1.00	39.06	A16S
ATOM	1334	O5*	C	A	67	100.934	40.484	9.968	1.00	73.43	A16S
ATOM	1335	C5*	C	A	67	100.537	39.851	8.739	1.00	73.43	A16S
ATOM	1336	C4*	C	A	67	101.456	38.698	8.417	1.00	73.43	A16S
ATOM	1337	O4*	C	A	67	102.763	39.195	8.036	1.00	73.43	A16S
ATOM	1338	C1*	C	A	67	103.752	38.261	8.424	1.00	73.43	A16S
ATOM	1339	N1	C	A	67	104.681	38.909	9.357	1.00	39.06	A16S
ATOM	1340	C6	C	A	67	104.319	40.015	10.067	1.00	39.06	A16S
ATOM	1341	C2	C	A	67	105.958	38.361	9.515	1.00	39.06	A16S
ATOM	1342	O2	C	A	67	106.254	37.343	8.864	1.00	39.06	A16S
ATOM	1343	N3	C	A	67	106.831	38.940	10.374	1.00	39.06	A16S
ATOM	1344	C4	C	A	67	106.462	40.014	11.066	1.00	39.06	A16S
ATOM	1345	N4	C	A	67	107.342	40.544	11.914	1.00	39.06	A16S
ATOM	1346	C5	C	A	67	105.172	40.592	10.925	1.00	39.06	A16S
ATOM	1347	C2*	C	A	67	103.052	37.074	9.079	1.00	73.43	A16S
ATOM	1348	O2*	C	A	67	102.851	36.076	8.102	1.00	73.43	A16S
ATOM	1349	C3*	C	A	67	101.743	37.703	9.534	1.00	73.43	A16S
ATOM	1350	O3*	C	A	67	100.717	36.723	9.672	1.00	73.43	A16S
ATOM	1351	P	G	A	68	100.578	35.906	11.053	1.00	60.77	A16S
ATOM	1352	O1P	G	A	68	99.228	35.299	11.040	1.00	45.82	A16S
ATOM	1353	O2P	G	A	68	100.988	36.774	12.189	1.00	45.82	A16S
ATOM	1354	O5*	G	A	68	101.661	34.747	10.916	1.00	60.77	A16S
ATOM	1355	C5*	G	A	68	101.603	33.820	9.818	1.00	60.77	A16S
ATOM	1356	C4*	G	A	68	102.861	32.994	9.759	1.00	60.77	A16S
ATOM	1357	O4*	G	A	68	103.993	33.830	9.413	1.00	60.77	A16S
ATOM	1358	C1*	G	A	68	105.171	33.303	9.997	1.00	60.77	A16S
ATOM	1359	N9	G	A	68	105.798	34.314	10.845	1.00	45.82	A16S
ATOM	1360	C4	G	A	68	107.136	34.395	11.147	1.00	45.82	A16S
ATOM	1361	N3	G	A	68	108.095	33.561	10.708	1.00	45.82	A16S
ATOM	1362	C2	G	A	68	109.289	33.885	11.183	1.00	45.82	A16S
ATOM	1363	N2	G	A	68	110.370	33.142	10.860	1.00	45.82	A16S
ATOM	1364	N1	G	A	68	109.518	34.952	12.012	1.00	45.82	A16S
ATOM	1365	C6	G	A	68	108.545	35.823	12.475	1.00	45.82	A16S
ATOM	1366	O6	G	A	68	108.864	36.751	13.227	1.00	45.82	A16S
ATOM	1367	C5	G	A	68	107.260	35.482	11.980	1.00	45.82	A16S
ATOM	1368	N7	G	A	68	106.028	36.076	12.198	1.00	45.82	A16S
ATOM	1369	C8	G	A	68	105.191	35.351	11.504	1.00	45.82	A16S
ATOM	1370	C2*	G	A	68	104.772	32.067	10.793	1.00	60.77	A16S
ATOM	1371	O2*	G	A	68	104.997	30.934	9.976	1.00	60.77	A16S
ATOM	1372	C3*	G	A	68	103.293	32.328	11.049	1.00	60.77	A16S
ATOM	1373	O3*	G	A	68	102.566	31.139	11.305	1.00	60.77	A16S
ATOM	1374	P	G	A	69	102.920	30.261	12.608	1.00	74.36	A16S
ATOM	1375	O1P	G	A	69	102.008	29.083	12.574	1.00	61.77	A16S
ATOM	1376	O2P	G	A	69	102.958	31.129	13.816	1.00	61.77	A16S
ATOM	1377	O5*	G	A	69	104.410	29.766	12.320	1.00	74.36	A16S
ATOM	1378	C5*	G	A	69	105.309	29.436	13.389	1.00	74.36	A16S
ATOM	1379	C4*	G	A	69	106.717	29.312	12.862	1.00	74.36	A16S

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ATOM	1380	O4*	G	A	69	107.126	30.601	12.334	1.00	74.36	A16S
ATOM	1381	C1*	G	A	69	108.486	30.854	12.667	1.00	74.36	A16S
ATOM	1382	N9	G	A	69	108.524	31.994	13.578	1.00	61.77	A16S
ATOM	1383	C4	G	A	69	109.642	32.538	14.167	1.00	61.77	A16S
ATOM	1384	N3	G	A	69	110.920	32.133	13.980	1.00	61.77	A16S
ATOM	1385	C2	G	A	69	111.774	32.855	14.697	1.00	61.77	A16S
ATOM	1386	N2	G	A	69	113.092	32.602	14.630	1.00	61.77	A16S
ATOM	1387	N1	G	A	69	111.397	33.879	15.531	1.00	61.77	A16S
ATOM	1388	C6	G	A	69	110.088	34.309	15.733	1.00	61.77	A16S
ATOM	1389	O6	G	A	69	109.853	35.247	16.505	1.00	61.77	A16S
ATOM	1390	C5	G	A	69	109.170	33.555	14.971	1.00	61.77	A16S
ATOM	1391	N7	G	A	69	107.790	33.660	14.875	1.00	61.77	A16S
ATOM	1392	C8	G	A	69	107.452	32.720	14.037	1.00	61.77	A16S
ATOM	1393	C2*	G	A	69	109.035	29.600	13.344	1.00	74.36	A16S
ATOM	1394	O2*	G	A	69	109.711	28.803	12.387	1.00	74.36	A16S
ATOM	1395	C3*	G	A	69	107.760	28.989	13.920	1.00	74.36	A16S
ATOM	1396	O3*	G	A	69	107.854	27.597	14.188	1.00	74.36	A16S
ATOM	1397	P	G	A	70	108.237	27.098	15.673	1.00	65.55	A16S
ATOM	1398	O1P	G	A	70	107.943	25.644	15.671	1.00	56.22	A16S
ATOM	1399	O2P	G	A	70	107.609	27.974	16.712	1.00	56.22	A16S
ATOM	1400	O5*	G	A	70	109.819	27.283	15.750	1.00	65.55	A16S
ATOM	1401	C5*	G	A	70	110.683	26.605	14.817	1.00	65.55	A16S
ATOM	1402	C4*	G	A	70	112.127	26.901	15.132	1.00	65.55	A16S
ATOM	1403	O4*	G	A	70	112.413	28.298	14.870	1.00	65.55	A16S
ATOM	1404	C1*	G	A	70	113.287	28.808	15.863	1.00	65.55	A16S
ATOM	1405	N9	G	A	70	112.566	29.846	16.598	1.00	56.22	A16S
ATOM	1406	C4	G	A	70	113.110	30.800	17.427	1.00	56.22	A16S
ATOM	1407	N3	G	A	70	114.418	30.931	17.737	1.00	56.22	A16S
ATOM	1408	C2	G	A	70	114.632	31.960	18.547	1.00	56.22	A16S
ATOM	1409	N2	G	A	70	115.881	32.250	18.964	1.00	56.22	A16S
ATOM	1410	N1	G	A	70	113.641	32.787	19.011	1.00	56.22	A16S
ATOM	1411	C6	G	A	70	112.287	32.671	18.704	1.00	56.22	A16S
ATOM	1412	O6	G	A	70	111.471	33.486	19.172	1.00	56.22	A16S
ATOM	1413	C5	G	A	70	112.043	31.572	17.843	1.00	56.22	A16S
ATOM	1414	N7	G	A	70	110.852	31.100	17.309	1.00	56.22	A16S
ATOM	1415	C8	G	A	70	111.208	30.076	16.584	1.00	56.22	A16S
ATOM	1416	C2*	G	A	70	113.693	27.636	16.752	1.00	65.55	A16S
ATOM	1417	O2*	G	A	70	114.884	27.044	16.273	1.00	65.55	A16S
ATOM	1418	C3*	G	A	70	112.500	26.712	16.586	1.00	65.55	A16S
ATOM	1419	O3*	G	A	70	112.805	25.368	16.889	1.00	65.55	A16S
ATOM	1420	P	C	A	73	112.410	24.786	18.331	1.00	64.71	A16S
ATOM	1421	O1P	C	A	73	112.745	23.337	18.299	1.00	65.45	A16S
ATOM	1422	O2P	C	A	73	111.011	25.223	18.652	1.00	65.45	A16S
ATOM	1423	O5*	C	A	73	113.402	25.524	19.336	1.00	64.71	A16S
ATOM	1424	C5*	C	A	73	114.815	25.462	19.142	1.00	64.71	A16S
ATOM	1425	C4*	C	A	73	115.500	26.469	20.027	1.00	64.71	A16S
ATOM	1426	O4*	C	A	73	115.180	27.817	19.595	1.00	64.71	A16S
ATOM	1427	C1*	C	A	73	115.088	28.675	20.723	1.00	64.71	A16S
ATOM	1428	N1	C	A	73	113.719	29.233	20.782	1.00	65.45	A16S
ATOM	1429	C6	C	A	73	112.678	28.614	20.144	1.00	65.45	A16S
ATOM	1430	C2	C	A	73	113.497	30.412	21.498	1.00	65.45	A16S
ATOM	1431	O2	C	A	73	114.449	30.949	22.075	1.00	65.45	A16S
ATOM	1432	N3	C	A	73	112.251	30.935	21.544	1.00	65.45	A16S
ATOM	1433	C4	C	A	73	111.249	30.328	20.908	1.00	65.45	A16S
ATOM	1434	N4	C	A	73	110.041	30.886	20.962	1.00	65.45	A16S
ATOM	1435	C5	C	A	73	111.441	29.123	20.182	1.00	65.45	A16S
ATOM	1436	C2*	C	A	73	115.452	27.845	21.953	1.00	64.71	A16S
ATOM	1437	O2*	C	A	73	116.841	27.988	22.201	1.00	64.71	A16S
ATOM	1438	C3*	C	A	73	115.089	26.442	21.484	1.00	64.71	A16S
ATOM	1439	O3*	C	A	73	115.764	25.422	22.192	1.00	64.71	A16S
ATOM	1440	P	C	A	74	114.986	24.622	23.347	1.00	85.39	A16S
ATOM	1441	O1P	C	A	74	115.865	23.484	23.715	1.00	51.36	A16S
ATOM	1442	O2P	C	A	74	113.585	24.359	22.908	1.00	51.36	A16S
ATOM	1443	O5*	C	A	74	114.992	25.651	24.562	1.00	85.39	A16S
ATOM	1444	C5*	C	A	74	116.234	25.992	25.194	1.00	85.39	A16S
ATOM	1445	C4*	C	A	74	116.022	27.026	26.270	1.00	85.39	A16S
ATOM	1446	O4*	C	A	74	115.721	28.313	25.676	1.00	85.39	A16S
ATOM	1447	C1*	C	A	74	114.842	29.029	26.525	1.00	85.39	A16S
ATOM	1448	N1	C	A	74	113.576	29.250	25.808	1.00	51.36	A16S
ATOM	1449	C6	C	A	74	113.217	28.465	24.747	1.00	51.36	A16S
ATOM	1450	C2	C	A	74	112.735	30.289	26.234	1.00	51.36	A16S
ATOM	1451	O2	C	A	74	113.073	30.970	27.211	1.00	51.36	A16S
ATOM	1452	N3	C	A	74	111.577	30.518	25.577	1.00	51.36	A16S
ATOM	1453	C4	C	A	74	111.238	29.750	24.543	1.00	51.36	A16S
ATOM	1454	N4	C	A	74	110.079	30.010	23.927	1.00	51.36	A16S
ATOM	1455	C5	C	A	74	112.068	28.677	24.093	1.00	51.36	A16S
ATOM	1456	C2*	C	A	74	114.615	28.187	27.777	1.00	85.39	A16S

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ATOM	1457	O2*	C	A	74	115.531	28.587	28.779	1.00	85.39	A16S
ATOM	1458	C3*	C	A	74	114.882	26.785	27.246	1.00	85.39	A16S
ATOM	1459	O3*	C	A	74	115.211	25.870	28.280	1.00	85.39	A16S
ATOM	1460	P	G	A	75	114.063	24.932	28.901	1.00	88.90	A16S
ATOM	1461	O1P	G	A	75	114.764	24.219	29.999	1.00	52.77	A16S
ATOM	1462	O2P	G	A	75	113.402	24.152	27.819	1.00	52.77	A16S
ATOM	1463	O5*	G	A	75	113.019	25.966	29.531	1.00	88.90	A16S
ATOM	1464	C5*	G	A	75	113.435	26.790	30.628	1.00	88.90	A16S
ATOM	1465	C4*	G	A	75	112.366	27.776	31.052	1.00	88.90	A16S
ATOM	1466	O4*	G	A	75	112.117	28.780	30.037	1.00	88.90	A16S
ATOM	1467	C1*	G	A	75	110.899	29.444	30.342	1.00	88.90	A16S
ATOM	1468	N9	G	A	75	109.981	29.381	29.211	1.00	52.77	A16S
ATOM	1469	C4	G	A	75	108.887	30.197	29.039	1.00	52.77	A16S
ATOM	1470	N3	G	A	75	108.523	31.204	29.858	1.00	52.77	A16S
ATOM	1471	C2	G	A	75	107.412	31.777	29.463	1.00	52.77	A16S
ATOM	1472	N2	G	A	75	106.905	32.790	30.174	1.00	52.77	A16S
ATOM	1473	N1	G	A	75	106.711	31.399	28.345	1.00	52.77	A16S
ATOM	1474	C6	G	A	75	107.064	30.364	27.486	1.00	52.77	A16S
ATOM	1475	O6	G	A	75	106.346	30.096	26.507	1.00	52.77	A16S
ATOM	1476	C5	G	A	75	108.259	29.737	27.902	1.00	52.77	A16S
ATOM	1477	N7	G	A	75	108.956	28.668	27.352	1.00	52.77	A16S
ATOM	1478	C8	G	A	75	109.976	28.497	28.155	1.00	52.77	A16S
ATOM	1479	C2*	G	A	75	110.249	28.683	31.492	1.00	88.90	A16S
ATOM	1480	O2*	G	A	75	110.497	29.395	32.688	1.00	88.90	A16S
ATOM	1481	C3*	G	A	75	110.961	27.335	31.420	1.00	88.90	A16S
ATOM	1482	O3*	G	A	75	110.839	26.665	32.665	1.00	88.90	A16S
ATOM	1483	P	C	A	76	109.471	25.875	33.002	1.00	76.55	A16S
ATOM	1484	O1P	C	A	76	109.676	25.194	34.315	1.00	50.03	A16S
ATOM	1485	O2P	C	A	76	109.047	25.068	31.808	1.00	50.03	A16S
ATOM	1486	O5*	C	A	76	108.403	27.042	33.215	1.00	76.55	A16S
ATOM	1487	C5*	C	A	76	108.557	27.983	34.293	1.00	76.55	A16S
ATOM	1488	C4*	C	A	76	107.378	28.926	34.355	1.00	76.55	A16S
ATOM	1489	O4*	C	A	76	107.365	29.806	33.200	1.00	76.55	A16S
ATOM	1490	C1*	C	A	76	106.025	30.100	32.842	1.00	76.55	A16S
ATOM	1491	N1	C	A	76	105.754	29.545	31.507	1.00	50.03	A16S
ATOM	1492	C6	C	A	76	106.555	28.576	30.969	1.00	50.03	A16S
ATOM	1493	C2	C	A	76	104.627	30.006	30.799	1.00	50.03	A16S
ATOM	1494	O2	C	A	76	103.942	30.920	31.284	1.00	50.03	A16S
ATOM	1495	N3	C	A	76	104.321	29.446	29.605	1.00	50.03	A16S
ATOM	1496	C4	C	A	76	105.097	28.480	29.103	1.00	50.03	A16S
ATOM	1497	N4	C	A	76	104.749	27.943	27.932	1.00	50.03	A16S
ATOM	1498	C5	C	A	76	106.266	28.020	29.784	1.00	50.03	A16S
ATOM	1499	C2*	C	A	76	105.121	29.417	33.863	1.00	76.55	A16S
ATOM	1500	O2*	C	A	76	104.811	30.333	34.889	1.00	76.55	A16S
ATOM	1501	C3*	C	A	76	106.008	28.280	34.338	1.00	76.55	A16S
ATOM	1502	O3*	C	A	76	105.613	27.769	35.595	1.00	76.55	A16S
ATOM	1503	P	G	A	77	104.483	26.628	35.652	1.00	57.33	A16S
ATOM	1504	O1P	G	A	77	104.439	26.126	37.058	1.00	46.00	A16S
ATOM	1505	O2P	G	A	77	104.698	25.665	34.527	1.00	46.00	A16S
ATOM	1506	O5*	G	A	77	103.137	27.415	35.317	1.00	57.33	A16S
ATOM	1507	C5*	G	A	77	102.620	28.432	36.198	1.00	57.33	A16S
ATOM	1508	C4*	G	A	77	101.298	28.943	35.679	1.00	57.33	A16S
ATOM	1509	O4*	G	A	77	101.511	29.701	34.460	1.00	57.33	A16S
ATOM	1510	C1*	G	A	77	100.456	29.450	33.536	1.00	57.33	A16S
ATOM	1511	N9	G	A	77	101.002	28.728	32.386	1.00	46.00	A16S
ATOM	1512	C4	G	A	77	100.409	28.558	31.158	1.00	46.00	A16S
ATOM	1513	N3	G	A	77	99.249	29.105	30.755	1.00	46.00	A16S
ATOM	1514	C2	G	A	77	98.916	28.711	29.532	1.00	46.00	A16S
ATOM	1515	N2	G	A	77	97.811	29.177	28.963	1.00	46.00	A16S
ATOM	1516	N1	G	A	77	99.650	27.832	28.779	1.00	46.00	A16S
ATOM	1517	C6	G	A	77	100.843	27.245	29.185	1.00	46.00	A16S
ATOM	1518	O6	G	A	77	101.410	26.425	28.453	1.00	46.00	A16S
ATOM	1519	C5	G	A	77	101.231	27.690	30.473	1.00	46.00	A16S
ATOM	1520	N7	G	A	77	102.352	27.378	31.222	1.00	46.00	A16S
ATOM	1521	C8	G	A	77	102.181	28.023	32.342	1.00	46.00	A16S
ATOM	1522	C2*	G	A	77	99.439	28.570	34.256	1.00	57.33	A16S
ATOM	1523	O2*	G	A	77	98.475	29.388	34.876	1.00	57.33	A16S
ATOM	1524	C3*	G	A	77	100.318	27.860	35.272	1.00	57.33	A16S
ATOM	1525	O3*	G	A	77	99.588	27.336	36.359	1.00	57.33	A16S
ATOM	1526	P	G	A	78	98.859	25.912	36.197	1.00	48.13	A16S
ATOM	1527	O1P	G	A	78	98.176	25.648	37.494	1.00	55.38	A16S
ATOM	1528	O2P	G	A	78	99.832	24.914	35.666	1.00	55.38	A16S
ATOM	1529	O5*	G	A	78	97.756	26.188	35.081	1.00	48.13	A16S
ATOM	1530	C5*	G	A	78	96.754	27.185	35.307	1.00	48.13	A16S
ATOM	1531	C4*	G	A	78	95.780	27.236	34.160	1.00	48.13	A16S
ATOM	1532	O4*	G	A	78	96.433	27.718	32.962	1.00	48.13	A16S
ATOM	1533	C1*	G	A	78	95.857	27.101	31.827	1.00	48.13	A16S

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ATOM	1534	N9	G	A	78	96.906	26.365	31.130	1.00	55.38	A16S
ATOM	1535	C4	G	A	78	96.852	25.890	29.841	1.00	55.38	A16S
ATOM	1536	N3	G	A	78	95.820	26.032	28.989	1.00	55.38	A16S
ATOM	1537	C2	G	A	78	96.045	25.429	27.837	1.00	55.38	A16S
ATOM	1538	N2	G	A	78	95.107	25.449	26.885	1.00	55.38	A16S
ATOM	1539	N1	G	A	78	97.198	24.755	27.535	1.00	55.38	A16S
ATOM	1540	C6	G	A	78	98.279	24.600	28.393	1.00	55.38	A16S
ATOM	1541	O6	G	A	78	99.277	23.963	28.022	1.00	55.38	A16S
ATOM	1542	C5	G	A	78	98.046	25.235	29.642	1.00	55.38	A16S
ATOM	1543	N7	G	A	78	98.845	25.311	30.777	1.00	55.38	A16S
ATOM	1544	C8	G	A	78	98.131	25.992	31.630	1.00	55.38	A16S
ATOM	1545	C2*	G	A	78	94.737	26.184	32.318	1.00	48.13	A16S
ATOM	1546	O2*	G	A	78	93.505	26.868	32.273	1.00	48.13	A16S
ATOM	1547	C3*	G	A	78	95.164	25.916	33.753	1.00	48.13	A16S
ATOM	1548	O3*	G	A	78	94.067	25.584	34.585	1.00	48.13	A16S
ATOM	1549	P	G	A	79	93.429	24.115	34.493	1.00	50.92	A16S
ATOM	1550	O1P	G	A	79	94.551	23.121	34.481	1.00	55.31	A16S
ATOM	1551	O2P	G	A	79	92.362	24.021	35.535	1.00	55.31	A16S
ATOM	1552	O5*	G	A	79	92.715	24.140	33.070	1.00	50.92	A16S
ATOM	1553	C5*	G	A	79	92.463	22.941	32.340	1.00	50.92	A16S
ATOM	1554	C4*	G	A	79	92.076	23.289	30.931	1.00	50.92	A16S
ATOM	1555	O4*	G	A	79	93.205	23.903	30.264	1.00	50.92	A16S
ATOM	1556	C1*	G	A	79	93.225	23.518	28.900	1.00	50.92	A16S
ATOM	1557	N9	G	A	79	94.460	22.777	28.661	1.00	55.31	A16S
ATOM	1558	C4	G	A	79	94.779	22.046	27.541	1.00	55.31	A16S
ATOM	1559	N3	G	A	79	94.009	21.902	26.445	1.00	55.31	A16S
ATOM	1560	C2	G	A	79	94.579	21.123	25.547	1.00	55.31	A16S
ATOM	1561	N2	G	A	79	93.956	20.882	24.388	1.00	55.31	A16S
ATOM	1562	N1	G	A	79	95.803	20.525	25.714	1.00	55.31	A16S
ATOM	1563	C6	G	A	79	96.611	20.661	26.833	1.00	55.31	A16S
ATOM	1564	O6	G	A	79	97.701	20.074	26.887	1.00	55.31	A16S
ATOM	1565	C5	G	A	79	96.019	21.502	27.799	1.00	55.31	A16S
ATOM	1566	N7	G	A	79	96.483	21.901	29.043	1.00	55.31	A16S
ATOM	1567	C8	G	A	79	95.528	22.655	29.517	1.00	55.31	A16S
ATOM	1568	C2*	G	A	79	91.976	22.670	28.648	1.00	50.92	A16S
ATOM	1569	O2*	G	A	79	90.936	23.502	28.157	1.00	50.92	A16S
ATOM	1570	C3*	G	A	79	91.701	22.122	30.042	1.00	50.92	A16S
ATOM	1571	O3*	G	A	79	90.348	21.749	30.248	1.00	50.92	A16S
ATOM	1572	P	G	A	80	90.003	20.233	30.631	1.00	55.97	A16S
ATOM	1573	O1P	G	A	80	88.571	20.230	31.006	1.00	59.09	A16S
ATOM	1574	O2P	G	A	80	91.022	19.712	31.583	1.00	59.09	A16S
ATOM	1575	O5*	G	A	80	90.164	19.460	29.253	1.00	55.97	A16S
ATOM	1576	C5*	G	A	80	89.276	19.752	28.180	1.00	55.97	A16S
ATOM	1577	C4*	G	A	80	89.650	18.965	26.963	1.00	55.97	A16S
ATOM	1578	O4*	G	A	80	90.913	19.445	26.443	1.00	55.97	A16S
ATOM	1579	C1*	G	A	80	91.579	18.388	25.781	1.00	55.97	A16S
ATOM	1580	N9	G	A	80	92.895	18.216	26.388	1.00	59.09	A16S
ATOM	1581	C4	G	A	80	93.985	17.591	25.822	1.00	59.09	A16S
ATOM	1582	N3	G	A	80	94.040	17.051	24.584	1.00	59.09	A16S
ATOM	1583	C2	G	A	80	95.224	16.506	24.336	1.00	59.09	A16S
ATOM	1584	N2	G	A	80	95.465	15.937	23.148	1.00	59.09	A16S
ATOM	1585	N1	G	A	80	96.263	16.482	25.236	1.00	59.09	A16S
ATOM	1586	C6	G	A	80	96.228	17.031	26.512	1.00	59.09	A16S
ATOM	1587	O6	G	A	80	97.221	16.948	27.246	1.00	59.09	A16S
ATOM	1588	C5	G	A	80	94.970	17.634	26.786	1.00	59.09	A16S
ATOM	1589	N7	G	A	80	94.522	18.297	27.917	1.00	59.09	A16S
ATOM	1590	C8	G	A	80	93.289	18.623	27.637	1.00	59.09	A16S
ATOM	1591	C2*	G	A	80	90.697	17.140	25.895	1.00	55.97	A16S
ATOM	1592	O2*	G	A	80	89.916	17.037	24.715	1.00	55.97	A16S
ATOM	1593	C3*	G	A	80	89.846	17.464	27.123	1.00	55.97	A16S
ATOM	1594	O3*	G	A	80	88.590	16.765	27.163	1.00	55.97	A16S
ATOM	1595	P	U	A	81	88.531	15.189	27.502	1.00	123.96	A16S
ATOM	1596	O1P	U	A	81	89.022	14.469	26.303	1.00	142.74	A16S
ATOM	1597	O2P	U	A	81	87.164	14.924	28.001	1.00	142.74	A16S
ATOM	1598	O5*	U	A	81	89.536	14.924	28.715	1.00	123.96	A16S
ATOM	1599	C5*	U	A	81	90.942	15.245	28.614	1.00	123.96	A16S
ATOM	1600	C4*	U	A	81	91.792	14.006	28.352	1.00	123.96	A16S
ATOM	1601	O4*	U	A	81	93.133	14.476	28.033	1.00	123.96	A16S
ATOM	1602	C1*	U	A	81	94.102	13.666	28.678	1.00	123.96	A16S
ATOM	1603	N1	U	A	81	94.830	14.515	29.642	1.00	142.74	A16S
ATOM	1604	C6	U	A	81	94.152	15.394	30.470	1.00	142.74	A16S
ATOM	1605	C2	U	A	81	96.221	14.423	29.693	1.00	142.74	A16S
ATOM	1606	O2	U	A	81	96.874	13.653	28.996	1.00	142.74	A16S
ATOM	1607	N3	U	A	81	96.819	15.270	30.597	1.00	142.74	A16S
ATOM	1608	C4	U	A	81	96.195	16.175	31.435	1.00	142.74	A16S
ATOM	1609	O4	U	A	81	96.879	16.906	32.151	1.00	142.74	A16S
ATOM	1610	C5	U	A	81	94.770	16.199	31.336	1.00	142.74	A16S

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ATOM	1611	C2*	U	A	81	93.371	12.469	29.298	1.00123.96	A16S
ATOM	1612	O2*	U	A	81	93.378	11.375	28.396	1.00123.96	A16S
ATOM	1613	C3*	U	A	81	91.971	13.036	29.522	1.00123.96	A16S
ATOM	1614	O3*	U	A	81	91.006	11.984	29.518	1.00123.96	A16S
ATOM	1615	P	U	A	82	90.136	11.692	30.840	1.00 87.80	A16S
ATOM	1616	O1P	U	A	82	89.364	10.430	30.596	1.00 79.93	A16S
ATOM	1617	O2P	U	A	82	89.394	12.958	31.144	1.00 79.93	A16S
ATOM	1618	O5*	U	A	82	91.209	11.437	32.003	1.00 87.80	A16S
ATOM	1619	C5*	U	A	82	90.909	11.806	33.374	1.00 87.80	A16S
ATOM	1620	C4*	U	A	82	91.521	10.825	34.357	1.00 87.80	A16S
ATOM	1621	O4*	U	A	82	90.949	9.498	34.194	1.00 87.80	A16S
ATOM	1622	C1*	U	A	82	91.939	8.509	34.457	1.00 87.80	A16S
ATOM	1623	N1	U	A	82	92.085	7.646	33.263	1.00 79.93	A16S
ATOM	1624	C6	U	A	82	91.281	7.809	32.156	1.00 79.93	A16S
ATOM	1625	C2	U	A	82	93.066	6.663	33.276	1.00 79.93	A16S
ATOM	1626	O2	U	A	82	93.783	6.449	34.240	1.00 79.93	A16S
ATOM	1627	N3	U	A	82	93.173	5.932	32.117	1.00 79.93	A16S
ATOM	1628	C4	U	A	82	92.414	6.061	30.978	1.00 79.93	A16S
ATOM	1629	O4	U	A	82	92.668	5.360	29.996	1.00 79.93	A16S
ATOM	1630	C5	U	A	82	91.409	7.069	31.048	1.00 79.93	A16S
ATOM	1631	C2*	U	A	82	93.225	9.244	34.863	1.00 87.80	A16S
ATOM	1632	O2*	U	A	82	93.341	9.305	36.268	1.00 87.80	A16S
ATOM	1633	C3*	U	A	82	93.015	10.615	34.235	1.00 87.80	A16S
ATOM	1634	O3*	U	A	82	93.733	11.645	34.886	1.00 87.80	A16S
ATOM	1635	P	U	A	83	94.731	12.554	34.026	1.00 83.52	A16S
ATOM	1636	O1P	U	A	83	95.165	13.702	34.862	1.00 67.61	A16S
ATOM	1637	O2P	U	A	83	94.057	12.804	32.716	1.00 67.61	A16S
ATOM	1638	O5*	U	A	83	95.999	11.616	33.819	1.00 83.52	A16S
ATOM	1639	C5*	U	A	83	96.777	11.234	34.952	1.00 83.52	A16S
ATOM	1640	C4*	U	A	83	97.569	9.988	34.666	1.00 83.52	A16S
ATOM	1641	O4*	U	A	83	96.684	8.893	34.322	1.00 83.52	A16S
ATOM	1642	C1*	U	A	83	97.354	7.995	33.451	1.00 83.52	A16S
ATOM	1643	N1	U	A	83	96.592	7.882	32.198	1.00 67.61	A16S
ATOM	1644	C6	U	A	83	95.447	8.611	31.990	1.00 67.61	A16S
ATOM	1645	C2	U	A	83	97.068	7.009	31.226	1.00 67.61	A16S
ATOM	1646	O2	U	A	83	98.089	6.335	31.368	1.00 67.61	A16S
ATOM	1647	N3	U	A	83	96.306	6.952	30.082	1.00 67.61	A16S
ATOM	1648	C4	U	A	83	95.149	7.659	29.817	1.00 67.61	A16S
ATOM	1649	O4	U	A	83	94.597	7.533	28.725	1.00 67.61	A16S
ATOM	1650	C5	U	A	83	94.729	8.529	30.866	1.00 67.61	A16S
ATOM	1651	C2*	U	A	83	98.752	8.553	33.212	1.00 83.52	A16S
ATOM	1652	O2*	U	A	83	99.638	7.913	34.113	1.00 83.52	A16S
ATOM	1653	C3*	U	A	83	98.539	10.032	33.506	1.00 83.52	A16S
ATOM	1654	O3*	U	A	83	99.737	10.715	33.828	1.00 83.52	A16S
ATOM	1655	P	U	A	84	100.331	11.776	32.779	1.00 92.78	A16S
ATOM	1656	O1P	U	A	84	101.522	12.413	33.410	1.00 52.59	A16S
ATOM	1657	O2P	U	A	84	99.178	12.621	32.307	1.00 52.59	A16S
ATOM	1658	O5*	U	A	84	100.853	10.870	31.575	1.00 92.78	A16S
ATOM	1659	C5*	U	A	84	101.929	9.942	31.789	1.00 92.78	A16S
ATOM	1660	C4*	U	A	84	102.100	9.032	30.598	1.00 92.78	A16S
ATOM	1661	O4*	U	A	84	100.898	8.248	30.397	1.00 92.78	A16S
ATOM	1662	C1*	U	A	84	100.723	8.002	29.018	1.00 92.78	A16S
ATOM	1663	N1	U	A	84	99.456	8.602	28.579	1.00 52.59	A16S
ATOM	1664	C6	U	A	84	98.786	9.543	29.332	1.00 52.59	A16S
ATOM	1665	C2	U	A	84	98.955	8.180	27.354	1.00 52.59	A16S
ATOM	1666	O2	U	A	84	99.531	7.365	26.648	1.00 52.59	A16S
ATOM	1667	N3	U	A	84	97.765	8.752	26.979	1.00 52.59	A16S
ATOM	1668	C4	U	A	84	97.039	9.691	27.677	1.00 52.59	A16S
ATOM	1669	O4	U	A	84	95.962	10.087	27.212	1.00 52.59	A16S
ATOM	1670	C5	U	A	84	97.626	10.092	28.933	1.00 52.59	A16S
ATOM	1671	C2*	U	A	84	101.901	8.624	28.279	1.00 92.78	A16S
ATOM	1672	O2*	U	A	84	102.876	7.623	28.076	1.00 92.78	A16S
ATOM	1673	C3*	U	A	84	102.335	9.704	29.258	1.00 92.78	A16S
ATOM	1674	O3*	U	A	84	103.691	10.090	29.079	1.00 92.78	A16S
ATOM	1675	P	A	A	88	104.026	11.510	28.398	1.00 77.01	A16S
ATOM	1676	O1P	A	A	88	105.472	11.808	28.653	1.00 65.88	A16S
ATOM	1677	O2P	A	A	88	102.982	12.480	28.847	1.00 65.88	A16S
ATOM	1678	O5*	A	A	88	103.809	11.246	26.839	1.00 77.01	A16S
ATOM	1679	C5*	A	A	88	104.602	10.274	26.141	1.00 77.01	A16S
ATOM	1680	C4*	A	A	88	103.933	9.877	24.848	1.00 77.01	A16S
ATOM	1681	O4*	A	A	88	102.651	9.261	25.133	1.00 77.01	A16S
ATOM	1682	C1*	A	A	88	101.729	9.569	24.104	1.00 77.01	A16S
ATOM	1683	N9	A	A	88	100.620	10.316	24.698	1.00 65.88	A16S
ATOM	1684	C4	A	A	88	99.398	10.577	24.124	1.00 65.88	A16S
ATOM	1685	N3	A	A	88	98.955	10.167	22.922	1.00 65.88	A16S
ATOM	1686	C2	A	A	88	97.730	10.644	22.688	1.00 65.88	A16S
ATOM	1687	N1	A	A	88	96.960	11.431	23.461	1.00 65.88	A16S

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ATOM	1688	C6	A	A	88	97.442	11.823	24.662	1.00	65.88	A16S
ATOM	1689	N6	A	A	88	96.693	12.619	25.428	1.00	65.88	A16S
ATOM	1690	C5	A	A	88	98.718	11.375	25.032	1.00	65.88	A16S
ATOM	1691	N7	A	A	88	99.477	11.583	26.171	1.00	65.88	A16S
ATOM	1692	C8	A	A	88	100.591	10.934	25.928	1.00	65.88	A16S
ATOM	1693	C2*	A	A	88	102.479	10.392	23.053	1.00	77.01	A16S
ATOM	1694	O2*	A	A	88	102.964	9.531	22.043	1.00	77.01	A16S
ATOM	1695	C3*	A	A	88	103.608	10.998	23.877	1.00	77.01	A16S
ATOM	1696	O3*	A	A	88	104.732	11.339	23.074	1.00	77.01	A16S
ATOM	1697	P	C	A	89	105.088	12.888	22.817	1.00	57.67	A16S
ATOM	1698	O1P	C	A	89	106.256	12.913	21.905	1.00	61.38	A16S
ATOM	1699	O2P	C	A	89	105.157	13.611	24.115	1.00	61.38	A16S
ATOM	1700	O5*	C	A	89	103.837	13.429	21.995	1.00	57.67	A16S
ATOM	1701	C5*	C	A	89	103.564	12.917	20.678	1.00	57.67	A16S
ATOM	1702	C4*	C	A	89	102.159	13.259	20.250	1.00	57.67	A16S
ATOM	1703	O4*	C	A	89	101.224	12.701	21.206	1.00	57.67	A16S
ATOM	1704	C1*	C	A	89	100.102	13.554	21.332	1.00	57.67	A16S
ATOM	1705	N1	C	A	89	100.039	14.064	22.709	1.00	61.38	A16S
ATOM	1706	C6	C	A	89	101.102	13.935	23.560	1.00	61.38	A16S
ATOM	1707	C2	C	A	89	98.855	14.693	23.142	1.00	61.38	A16S
ATOM	1708	O2	C	A	89	97.903	14.811	22.340	1.00	61.38	A16S
ATOM	1709	N3	C	A	89	98.780	15.157	24.418	1.00	61.38	A16S
ATOM	1710	C4	C	A	89	99.825	15.012	25.244	1.00	61.38	A16S
ATOM	1711	N4	C	A	89	99.705	15.466	26.500	1.00	61.38	A16S
ATOM	1712	C5	C	A	89	101.040	14.388	24.822	1.00	61.38	A16S
ATOM	1713	C2*	C	A	89	100.282	14.688	20.334	1.00	57.67	A16S
ATOM	1714	O2*	C	A	89	99.630	14.291	19.144	1.00	57.67	A16S
ATOM	1715	C3*	C	A	89	101.798	14.733	20.200	1.00	57.67	A16S
ATOM	1716	O3*	C	A	89	102.218	15.353	18.994	1.00	57.67	A16S
ATOM	1717	P	U	A	90	102.664	16.902	19.010	1.00	56.76	A16S
ATOM	1718	O1P	U	A	90	103.035	17.264	17.610	1.00	60.46	A16S
ATOM	1719	O2P	U	A	90	103.648	17.116	20.120	1.00	60.46	A16S
ATOM	1720	O5*	U	A	90	101.317	17.683	19.348	1.00	56.76	A16S
ATOM	1721	C5*	U	A	90	100.158	17.507	18.517	1.00	56.76	A16S
ATOM	1722	C4*	U	A	90	98.927	18.087	19.175	1.00	56.76	A16S
ATOM	1723	O4*	U	A	90	98.642	17.411	20.426	1.00	56.76	A16S
ATOM	1724	C1*	U	A	90	98.039	18.316	21.326	1.00	56.76	A16S
ATOM	1725	N1	U	A	90	98.870	18.417	22.535	1.00	60.46	A16S
ATOM	1726	C6	U	A	90	100.218	18.138	22.512	1.00	60.46	A16S
ATOM	1727	C2	U	A	90	98.247	18.806	23.712	1.00	60.46	A16S
ATOM	1728	O2	U	A	90	97.054	19.068	23.780	1.00	60.46	A16S
ATOM	1729	N3	U	A	90	99.069	18.880	24.808	1.00	60.46	A16S
ATOM	1730	C4	U	A	90	100.416	18.613	24.851	1.00	60.46	A16S
ATOM	1731	O4	U	A	90	101.016	18.718	25.918	1.00	60.46	A16S
ATOM	1732	C5	U	A	90	100.989	18.221	23.599	1.00	60.46	A16S
ATOM	1733	C2*	U	A	90	97.884	19.649	20.599	1.00	56.76	A16S
ATOM	1734	O2*	U	A	90	96.608	19.635	19.999	1.00	56.76	A16S
ATOM	1735	C3*	U	A	90	98.971	19.556	19.540	1.00	56.76	A16S
ATOM	1736	O3*	U	A	90	98.639	20.325	18.404	1.00	56.76	A16S
ATOM	1737	P	C	A	91	98.937	21.900	18.386	1.00	52.30	A16S
ATOM	1738	O1P	C	A	91	98.676	22.276	16.980	1.00	43.78	A16S
ATOM	1739	O2P	C	A	91	100.247	22.245	19.021	1.00	43.78	A16S
ATOM	1740	O5*	C	A	91	97.765	22.529	19.256	1.00	52.30	A16S
ATOM	1741	C5*	C	A	91	96.435	22.605	18.717	1.00	52.30	A16S
ATOM	1742	C4*	C	A	91	95.514	23.310	19.677	1.00	52.30	A16S
ATOM	1743	O4*	C	A	91	95.341	22.511	20.873	1.00	52.30	A16S
ATOM	1744	C1*	C	A	91	95.192	23.363	21.989	1.00	52.30	A16S
ATOM	1745	N1	C	A	91	96.331	23.160	22.897	1.00	43.78	A16S
ATOM	1746	C6	C	A	91	97.467	22.531	22.474	1.00	43.78	A16S
ATOM	1747	C2	C	A	91	96.238	23.645	24.220	1.00	43.78	A16S
ATOM	1748	O2	C	A	91	95.183	24.205	24.591	1.00	43.78	A16S
ATOM	1749	N3	C	A	91	97.291	23.496	25.057	1.00	43.78	A16S
ATOM	1750	C4	C	A	91	98.400	22.895	24.626	1.00	43.78	A16S
ATOM	1751	N4	C	A	91	99.422	22.786	25.481	1.00	43.78	A16S
ATOM	1752	C5	C	A	91	98.515	22.380	23.294	1.00	43.78	A16S
ATOM	1753	C2*	C	A	91	95.173	24.795	21.466	1.00	52.30	A16S
ATOM	1754	O2*	C	A	91	93.835	25.154	21.169	1.00	52.30	A16S
ATOM	1755	C3*	C	A	91	95.982	24.659	20.192	1.00	52.30	A16S
ATOM	1756	O3*	C	A	91	95.688	25.713	19.290	1.00	52.30	A16S
ATOM	1757	P	C	A	92	96.566	27.060	19.333	1.00	56.96	A16S
ATOM	1758	O1P	C	A	92	96.134	27.879	18.158	1.00	43.30	A16S
ATOM	1759	O2P	C	A	92	97.993	26.683	19.504	1.00	43.30	A16S
ATOM	1760	O5*	C	A	92	96.142	27.798	20.679	1.00	56.96	A16S
ATOM	1761	C5*	C	A	92	94.799	28.263	20.862	1.00	56.96	A16S
ATOM	1762	C4*	C	A	92	94.652	28.938	22.199	1.00	56.96	A16S
ATOM	1763	O4*	C	A	92	94.810	27.975	23.272	1.00	56.96	A16S
ATOM	1764	C1*	C	A	92	95.425	28.604	24.377	1.00	56.96	A16S

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ATOM	1765	N1	C	A	92	96.692	27.912	24.666	1.00	43.30	A16S
ATOM	1766	C6	C	A	92	97.286	27.107	23.737	1.00	43.30	A16S
ATOM	1767	C2	C	A	92	97.282	28.085	25.934	1.00	43.30	A16S
ATOM	1768	O2	C	A	92	96.736	28.833	26.748	1.00	43.30	A16S
ATOM	1769	N3	C	A	92	98.429	27.434	26.233	1.00	43.30	A16S
ATOM	1770	C4	C	A	92	98.988	26.636	25.328	1.00	43.30	A16S
ATOM	1771	N4	C	A	92	100.100	25.991	25.676	1.00	43.30	A16S
ATOM	1772	C5	C	A	92	98.424	26.455	24.022	1.00	43.30	A16S
ATOM	1773	C2*	C	A	92	95.629	30.076	24.019	1.00	56.96	A16S
ATOM	1774	O2*	C	A	92	94.512	30.834	24.448	1.00	56.96	A16S
ATOM	1775	C3*	C	A	92	95.675	30.011	22.506	1.00	56.96	A16S
ATOM	1776	O3*	C	A	92	95.329	31.249	21.927	1.00	56.96	A16S
ATOM	1777	P	G	A	93	96.471	32.354	21.695	1.00	44.83	A16S
ATOM	1778	O1P	G	A	93	95.818	33.436	20.909	1.00	53.06	A16S
ATOM	1779	O2P	G	A	93	97.705	31.711	21.177	1.00	53.06	A16S
ATOM	1780	O5*	G	A	93	96.824	32.866	23.162	1.00	44.83	A16S
ATOM	1781	C5*	G	A	93	95.828	33.494	23.963	1.00	44.83	A16S
ATOM	1782	C4*	G	A	93	96.366	33.760	25.336	1.00	44.83	A16S
ATOM	1783	O4*	G	A	93	96.622	32.506	26.013	1.00	44.83	A16S
ATOM	1784	C1*	G	A	93	97.699	32.670	26.924	1.00	44.83	A16S
ATOM	1785	N9	G	A	93	98.744	31.703	26.607	1.00	53.06	A16S
ATOM	1786	C4	G	A	93	99.812	31.380	27.409	1.00	53.06	A16S
ATOM	1787	N3	G	A	93	100.072	31.898	28.627	1.00	53.06	A16S
ATOM	1788	C2	G	A	93	101.164	31.378	29.160	1.00	53.06	A16S
ATOM	1789	N2	G	A	93	101.565	31.771	30.376	1.00	53.06	A16S
ATOM	1790	N1	G	A	93	101.942	30.432	28.541	1.00	53.06	A16S
ATOM	1791	C6	G	A	93	101.695	29.894	27.281	1.00	53.06	A16S
ATOM	1792	O6	G	A	93	102.468	29.056	26.804	1.00	53.06	A16S
ATOM	1793	C5	G	A	93	100.523	30.434	26.706	1.00	53.06	A16S
ATOM	1794	N7	G	A	93	99.920	30.169	25.486	1.00	53.06	A16S
ATOM	1795	C8	G	A	93	98.869	30.945	25.469	1.00	53.06	A16S
ATOM	1796	C2*	G	A	93	98.211	34.101	26.779	1.00	44.83	A16S
ATOM	1797	O2*	G	A	93	97.674	34.925	27.797	1.00	44.83	A16S
ATOM	1798	C3*	G	A	93	97.704	34.459	25.392	1.00	44.83	A16S
ATOM	1799	O3*	G	A	93	97.630	35.842	25.193	1.00	44.83	A16S
ATOM	1800	P	U	A	95	98.849	36.572	24.457	1.00	62.22	A16S
ATOM	1801	O1P	U	A	95	98.389	37.955	24.196	1.00	69.48	A16S
ATOM	1802	O2P	U	A	95	99.296	35.722	23.321	1.00	69.48	A16S
ATOM	1803	O5*	U	A	95	100.007	36.572	25.552	1.00	62.22	A16S
ATOM	1804	C5*	U	A	95	99.764	37.087	26.872	1.00	62.22	A16S
ATOM	1805	C4*	U	A	95	100.851	36.644	27.821	1.00	62.22	A16S
ATOM	1806	O4*	U	A	95	100.854	35.195	27.912	1.00	62.22	A16S
ATOM	1807	C1*	U	A	95	102.177	34.738	28.143	1.00	62.22	A16S
ATOM	1808	N1	U	A	95	102.561	33.786	27.086	1.00	69.48	A16S
ATOM	1809	C6	U	A	95	101.884	33.699	25.886	1.00	69.48	A16S
ATOM	1810	C2	U	A	95	103.643	32.956	27.354	1.00	69.48	A16S
ATOM	1811	O2	U	A	95	104.292	33.030	28.383	1.00	69.48	A16S
ATOM	1812	N3	U	A	95	103.941	32.046	26.372	1.00	69.48	A16S
ATOM	1813	C4	U	A	95	103.295	31.883	25.164	1.00	69.48	A16S
ATOM	1814	O4	U	A	95	103.621	30.938	24.430	1.00	69.48	A16S
ATOM	1815	C5	U	A	95	102.206	32.802	24.940	1.00	69.48	A16S
ATOM	1816	C2*	U	A	95	103.096	35.956	28.203	1.00	62.22	A16S
ATOM	1817	O2*	U	A	95	103.327	36.334	29.548	1.00	62.22	A16S
ATOM	1818	C3*	U	A	95	102.282	36.983	27.430	1.00	62.22	A16S
ATOM	1819	O3*	U	A	95	102.671	38.311	27.751	1.00	62.22	A16S
ATOM	1820	P	G	A	96	103.868	39.005	26.922	1.00	76.45	A16S
ATOM	1821	O1P	G	A	96	103.758	40.471	27.195	1.00	61.34	A16S
ATOM	1822	O2P	G	A	96	103.882	38.514	25.508	1.00	61.34	A16S
ATOM	1823	O5*	G	A	96	105.174	38.455	27.635	1.00	76.45	A16S
ATOM	1824	C5*	G	A	96	105.458	38.866	28.961	1.00	76.45	A16S
ATOM	1825	C4*	G	A	96	106.776	38.323	29.403	1.00	76.45	A16S
ATOM	1826	O4*	G	A	96	106.687	36.883	29.513	1.00	76.45	A16S
ATOM	1827	C1*	G	A	96	107.942	36.310	29.208	1.00	76.45	A16S
ATOM	1828	N9	G	A	96	107.789	35.433	28.051	1.00	61.34	A16S
ATOM	1829	C4	G	A	96	108.664	34.444	27.688	1.00	61.34	A16S
ATOM	1830	N3	G	A	96	109.799	34.124	28.342	1.00	61.34	A16S
ATOM	1831	C2	G	A	96	110.447	33.141	27.754	1.00	61.34	A16S
ATOM	1832	N2	G	A	96	111.601	32.714	28.277	1.00	61.34	A16S
ATOM	1833	N1	G	A	96	110.011	32.512	26.610	1.00	61.34	A16S
ATOM	1834	C6	G	A	96	108.840	32.823	25.919	1.00	61.34	A16S
ATOM	1835	O6	G	A	96	108.536	32.190	24.897	1.00	61.34	A16S
ATOM	1836	C5	G	A	96	108.138	33.888	26.541	1.00	61.34	A16S
ATOM	1837	N7	G	A	96	106.949	34.516	26.187	1.00	61.34	A16S
ATOM	1838	C8	G	A	96	106.778	35.425	27.111	1.00	61.34	A16S
ATOM	1839	C2*	G	A	96	108.907	37.456	28.911	1.00	76.45	A16S
ATOM	1840	O2*	G	A	96	109.605	37.788	30.097	1.00	76.45	A16S
ATOM	1841	C3*	G	A	96	107.944	38.549	28.469	1.00	76.45	A16S

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ATOM	1842	O3*	G	A	96	108.491	39.852	28.567	1.00	76.45	A16S
ATOM	1843	P	G	A	97	109.272	40.469	27.302	1.00	82.21	A16S
ATOM	1844	O1P	G	A	97	109.663	41.847	27.677	1.00	58.73	A16S
ATOM	1845	O2P	G	A	97	108.464	40.245	26.070	1.00	58.73	A16S
ATOM	1846	O5*	G	A	97	110.597	39.583	27.210	1.00	82.21	A16S
ATOM	1847	C5*	G	A	97	111.475	39.468	28.347	1.00	82.21	A16S
ATOM	1848	C4*	G	A	97	112.543	38.420	28.109	1.00	82.21	A16S
ATOM	1849	O4*	G	A	97	111.971	37.086	28.054	1.00	82.21	A16S
ATOM	1850	C1*	G	A	97	112.770	36.266	27.214	1.00	82.21	A16S
ATOM	1851	N9	G	A	97	111.962	35.765	26.106	1.00	58.73	A16S
ATOM	1852	C4	G	A	97	112.317	34.733	25.279	1.00	58.73	A16S
ATOM	1853	N3	G	A	97	113.452	34.016	25.369	1.00	58.73	A16S
ATOM	1854	C2	G	A	97	113.538	33.111	24.419	1.00	58.73	A16S
ATOM	1855	N2	G	A	97	114.631	32.342	24.345	1.00	58.73	A16S
ATOM	1856	N1	G	A	97	112.568	32.901	23.464	1.00	58.73	A16S
ATOM	1857	C6	G	A	97	111.388	33.626	23.352	1.00	58.73	A16S
ATOM	1858	O6	G	A	97	110.585	33.362	22.449	1.00	58.73	A16S
ATOM	1859	C5	G	A	97	111.294	34.624	24.360	1.00	58.73	A16S
ATOM	1860	N7	G	A	97	110.307	35.570	24.607	1.00	58.73	A16S
ATOM	1861	C8	G	A	97	110.742	36.220	25.657	1.00	58.73	A16S
ATOM	1862	C2*	G	A	97	113.916	37.124	26.680	1.00	82.21	A16S
ATOM	1863	O2*	G	A	97	115.073	36.930	27.465	1.00	82.21	A16S
ATOM	1864	C3*	G	A	97	113.338	38.522	26.823	1.00	82.21	A16S
ATOM	1865	O3*	G	A	97	114.347	39.502	26.880	1.00	82.21	A16S
ATOM	1866	P	U	A	98	114.709	40.322	25.553	1.00	80.45	A16S
ATOM	1867	O1P	U	A	98	115.693	41.354	25.988	1.00	51.03	A16S
ATOM	1868	O2P	U	A	98	113.448	40.747	24.856	1.00	51.03	A16S
ATOM	1869	O5*	U	A	98	115.454	39.237	24.658	1.00	80.45	A16S
ATOM	1870	C5*	U	A	98	116.755	38.766	25.036	1.00	80.45	A16S
ATOM	1871	C4*	U	A	98	117.203	37.666	24.115	1.00	80.45	A16S
ATOM	1872	O4*	U	A	98	116.271	36.564	24.227	1.00	80.45	A16S
ATOM	1873	C1*	U	A	98	116.164	35.904	22.981	1.00	80.45	A16S
ATOM	1874	N1	U	A	98	114.790	36.041	22.485	1.00	51.03	A16S
ATOM	1875	C6	U	A	98	114.023	37.137	22.781	1.00	51.03	A16S
ATOM	1876	C2	U	A	98	114.299	35.022	21.684	1.00	51.03	A16S
ATOM	1877	O2	U	A	98	114.956	34.027	21.396	1.00	51.03	A16S
ATOM	1878	N3	U	A	98	113.016	35.209	21.227	1.00	51.03	A16S
ATOM	1879	C4	U	A	98	112.196	36.282	21.483	1.00	51.03	A16S
ATOM	1880	O4	U	A	98	111.050	36.295	21.022	1.00	51.03	A16S
ATOM	1881	C5	U	A	98	112.779	37.291	22.318	1.00	51.03	A16S
ATOM	1882	C2*	U	A	98	117.118	36.592	22.018	1.00	80.45	A16S
ATOM	1883	O2*	U	A	98	118.365	35.936	22.047	1.00	80.45	A16S
ATOM	1884	C3*	U	A	98	117.209	37.976	22.628	1.00	80.45	A16S
ATOM	1885	O3*	U	A	98	118.366	38.648	22.161	1.00	80.45	A16S
ATOM	1886	P	C	A	99	118.315	39.382	20.727	1.00	64.24	A16S
ATOM	1887	O1P	C	A	99	119.620	40.083	20.553	1.00	67.58	A16S
ATOM	1888	O2P	C	A	99	117.037	40.153	20.642	1.00	67.58	A16S
ATOM	1889	O5*	C	A	99	118.216	38.191	19.670	1.00	64.24	A16S
ATOM	1890	C5*	C	A	99	119.297	37.253	19.513	1.00	64.24	A16S
ATOM	1891	C4*	C	A	99	119.037	36.338	18.342	1.00	64.24	A16S
ATOM	1892	O4*	C	A	99	117.961	35.416	18.650	1.00	64.24	A16S
ATOM	1893	C1*	C	A	99	117.192	35.176	17.481	1.00	64.24	A16S
ATOM	1894	N1	C	A	99	115.800	35.611	17.727	1.00	67.58	A16S
ATOM	1895	C6	C	A	99	115.510	36.527	18.703	1.00	67.58	A16S
ATOM	1896	C2	C	A	99	114.764	35.076	16.928	1.00	67.58	A16S
ATOM	1897	O2	C	A	99	115.043	34.230	16.050	1.00	67.58	A16S
ATOM	1898	N3	C	A	99	113.488	35.493	17.134	1.00	67.58	A16S
ATOM	1899	C4	C	A	99	113.223	36.390	18.088	1.00	67.58	A16S
ATOM	1900	N4	C	A	99	111.950	36.768	18.257	1.00	67.58	A16S
ATOM	1901	C5	C	A	99	114.251	36.940	18.914	1.00	67.58	A16S
ATOM	1902	C2*	C	A	99	117.840	35.946	16.327	1.00	64.24	A16S
ATOM	1903	O2*	C	A	99	118.666	35.088	15.561	1.00	64.24	A16S
ATOM	1904	C3*	C	A	99	118.596	37.039	17.071	1.00	64.24	A16S
ATOM	1905	O3*	C	A	99	119.703	37.552	16.350	1.00	64.24	A16S
ATOM	1906	P	A	A	101	119.729	39.104	15.936	1.00	60.23	A16S
ATOM	1907	O1P	A	A	101	121.161	39.491	15.921	1.00	60.91	A16S
ATOM	1908	O2P	A	A	101	118.784	39.863	16.792	1.00	60.91	A16S
ATOM	1909	O5*	A	A	101	119.137	39.111	14.452	1.00	60.23	A16S
ATOM	1910	C5*	A	A	101	119.936	38.671	13.335	1.00	60.23	A16S
ATOM	1911	C4*	A	A	101	119.199	37.622	12.539	1.00	60.23	A16S
ATOM	1912	O4*	A	A	101	118.417	36.824	13.463	1.00	60.23	A16S
ATOM	1913	C1*	A	A	101	117.286	36.304	12.794	1.00	60.23	A16S
ATOM	1914	N9	A	A	101	116.073	36.666	13.523	1.00	60.91	A16S
ATOM	1915	C4	A	A	101	114.820	36.216	13.189	1.00	60.91	A16S
ATOM	1916	N3	A	A	101	114.500	35.373	12.193	1.00	60.91	A16S
ATOM	1917	C2	A	A	101	113.185	35.179	12.149	1.00	60.91	A16S
ATOM	1918	N1	A	A	101	112.226	35.701	12.920	1.00	60.91	A16S

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ATOM	1919	C6	A	A 101	112.585	36.553	13.907	1.00	60.91	A16S
ATOM	1920	N6	A	A 101	111.626	37.095	14.665	1.00	60.91	A16S
ATOM	1921	C5	A	A 101	113.952	36.827	14.070	1.00	60.91	A16S
ATOM	1922	N7	A	A 101	114.646	37.627	14.967	1.00	60.91	A16S
ATOM	1923	C8	A	A 101	115.899	37.494	14.601	1.00	60.91	A16S
ATOM	1924	C2*	A	A 101	117.279	36.855	11.366	1.00	60.23	A16S
ATOM	1925	O2*	A	A 101	117.780	35.855	10.499	1.00	60.23	A16S
ATOM	1926	C3*	A	A 101	118.190	38.075	11.487	1.00	60.23	A16S
ATOM	1927	O3*	A	A 101	118.823	38.349	10.230	1.00	60.23	A16S
ATOM	1928	P	G	A 102	118.042	39.192	9.092	1.00	51.10	A16S
ATOM	1929	O1P	G	A 102	119.019	39.487	8.017	1.00	51.16	A16S
ATOM	1930	O2P	G	A 102	117.278	40.303	9.717	1.00	51.16	A16S
ATOM	1931	O5*	G	A 102	116.952	38.194	8.506	1.00	51.10	A16S
ATOM	1932	C5*	G	A 102	117.327	36.921	7.973	1.00	51.10	A16S
ATOM	1933	C4*	G	A 102	116.095	36.131	7.617	1.00	51.10	A16S
ATOM	1934	O4*	G	A 102	115.347	35.791	8.815	1.00	51.10	A16S
ATOM	1935	C1*	G	A 102	113.955	35.805	8.526	1.00	51.10	A16S
ATOM	1936	N9	G	A 102	113.306	36.759	9.420	1.00	51.16	A16S
ATOM	1937	C4	G	A 102	111.947	36.950	9.575	1.00	51.16	A16S
ATOM	1938	N3	G	A 102	110.970	36.279	8.929	1.00	51.16	A16S
ATOM	1939	C2	G	A 102	109.765	36.692	9.290	1.00	51.16	A16S
ATOM	1940	N2	G	A 102	108.676	36.112	8.764	1.00	51.16	A16S
ATOM	1941	N1	G	A 102	109.537	37.694	10.198	1.00	51.16	A16S
ATOM	1942	C6	G	A 102	110.528	38.401	10.872	1.00	51.16	A16S
ATOM	1943	O6	G	A 102	110.216	39.296	11.675	1.00	51.16	A16S
ATOM	1944	C5	G	A 102	111.824	37.959	10.504	1.00	51.16	A16S
ATOM	1945	N7	G	A 102	113.072	38.388	10.930	1.00	51.16	A16S
ATOM	1946	C8	G	A 102	113.919	37.649	10.263	1.00	51.16	A16S
ATOM	1947	C2*	G	A 102	113.782	36.189	7.054	1.00	51.10	A16S
ATOM	1948	O2*	G	A 102	113.586	35.034	6.270	1.00	51.10	A16S
ATOM	1949	C3*	G	A 102	115.099	36.894	6.768	1.00	51.10	A16S
ATOM	1950	O3*	G	A 102	115.470	36.906	5.405	1.00	51.10	A16S
ATOM	1951	P	C	A 103	115.412	38.289	4.600	1.00	50.55	A16S
ATOM	1952	O1P	C	A 103	116.225	38.125	3.367	1.00	56.24	A16S
ATOM	1953	O2P	C	A 103	115.736	39.388	5.566	1.00	56.24	A16S
ATOM	1954	O5*	C	A 103	113.882	38.380	4.175	1.00	50.55	A16S
ATOM	1955	C5*	C	A 103	113.317	37.325	3.398	1.00	50.55	A16S
ATOM	1956	C4*	C	A 103	111.820	37.316	3.508	1.00	50.55	A16S
ATOM	1957	O4*	C	A 103	111.405	37.114	4.876	1.00	50.55	A16S
ATOM	1958	C1*	C	A 103	110.147	37.732	5.076	1.00	50.55	A16S
ATOM	1959	N1	C	A 103	110.242	38.656	6.213	1.00	56.24	A16S
ATOM	1960	C6	C	A 103	111.443	38.916	6.815	1.00	56.24	A16S
ATOM	1961	C2	C	A 103	109.072	39.276	6.673	1.00	56.24	A16S
ATOM	1962	O2	C	A 103	107.999	39.037	6.100	1.00	56.24	A16S
ATOM	1963	N3	C	A 103	109.141	40.124	7.720	1.00	56.24	A16S
ATOM	1964	C4	C	A 103	110.320	40.374	8.300	1.00	56.24	A16S
ATOM	1965	N4	C	A 103	110.344	41.226	9.330	1.00	56.24	A16S
ATOM	1966	C5	C	A 103	111.529	39.763	7.848	1.00	56.24	A16S
ATOM	1967	C2*	C	A 103	109.764	38.443	3.777	1.00	50.55	A16S
ATOM	1968	O2*	C	A 103	108.880	37.625	3.033	1.00	50.55	A16S
ATOM	1969	C3*	C	A 103	111.110	38.579	3.088	1.00	50.55	A16S
ATOM	1970	O3*	C	A 103	110.952	38.606	1.689	1.00	50.55	A16S
ATOM	1971	P	G	A 104	111.153	39.989	0.914	1.00	56.77	A16S
ATOM	1972	O1P	G	A 104	110.691	39.785	-0.496	1.00	43.69	A16S
ATOM	1973	O2P	G	A 104	112.569	40.404	1.182	1.00	43.69	A16S
ATOM	1974	O5*	G	A 104	110.128	40.974	1.648	1.00	56.77	A16S
ATOM	1975	C5*	G	A 104	108.712	40.893	1.359	1.00	56.77	A16S
ATOM	1976	C4*	G	A 104	107.917	41.903	2.166	1.00	56.77	A16S
ATOM	1977	O4*	G	A 104	108.023	41.621	3.583	1.00	56.77	A16S
ATOM	1978	C1*	G	A 104	107.831	42.818	4.318	1.00	56.77	A16S
ATOM	1979	N9	G	A 104	108.964	43.020	5.215	1.00	43.69	A16S
ATOM	1980	C4	G	A 104	109.050	43.961	6.220	1.00	43.69	A16S
ATOM	1981	N3	G	A 104	108.099	44.862	6.556	1.00	43.69	A16S
ATOM	1982	C2	G	A 104	108.496	45.642	7.566	1.00	43.69	A16S
ATOM	1983	N2	G	A 104	107.697	46.608	8.030	1.00	43.69	A16S
ATOM	1984	N1	G	A 104	109.710	45.537	8.190	1.00	43.69	A16S
ATOM	1985	C6	G	A 104	110.697	44.623	7.855	1.00	43.69	A16S
ATOM	1986	O6	G	A 104	111.761	44.628	8.462	1.00	43.69	A16S
ATOM	1987	C5	G	A 104	110.298	43.779	6.783	1.00	43.69	A16S
ATOM	1988	N7	G	A 104	110.977	42.741	6.158	1.00	43.69	A16S
ATOM	1989	C8	G	A 104	110.151	42.322	5.236	1.00	43.69	A16S
ATOM	1990	C2*	G	A 104	107.651	43.953	3.318	1.00	56.77	A16S
ATOM	1991	O2*	G	A 104	106.267	44.175	3.166	1.00	56.77	A16S
ATOM	1992	C3*	G	A 104	108.282	43.370	2.060	1.00	56.77	A16S
ATOM	1993	O3*	G	A 104	107.740	43.967	0.896	1.00	56.77	A16S
ATOM	1994	P	G	A 105	108.504	45.215	0.219	1.00	55.87	A16S
ATOM	1995	O1P	G	A 105	107.702	45.586	-0.985	1.00	43.42	A16S

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ATOM	1996	O2P	G	A	105	109.948	44.883	0.064	1.00	43.42	A16S
ATOM	1997	O5*	G	A	105	108.410	46.386	1.302	1.00	55.87	A16S
ATOM	1998	C5*	G	A	105	107.135	46.960	1.621	1.00	55.87	A16S
ATOM	1999	C4*	G	A	105	107.239	48.001	2.721	1.00	55.87	A16S
ATOM	2000	O4*	G	A	105	107.610	47.416	3.987	1.00	55.87	A16S
ATOM	2001	C1*	G	A	105	108.046	48.438	4.854	1.00	55.87	A16S
ATOM	2002	N9	G	A	105	109.299	48.041	5.473	1.00	43.42	A16S
ATOM	2003	C4	G	A	105	109.872	48.646	6.560	1.00	43.42	A16S
ATOM	2004	N3	G	A	105	109.369	49.699	7.232	1.00	43.42	A16S
ATOM	2005	C2	G	A	105	110.163	50.080	8.217	1.00	43.42	A16S
ATOM	2006	N2	G	A	105	109.819	51.123	8.986	1.00	43.42	A16S
ATOM	2007	N1	G	A	105	111.352	49.472	8.524	1.00	43.42	A16S
ATOM	2008	C6	G	A	105	111.882	48.379	7.858	1.00	43.42	A16S
ATOM	2009	O6	G	A	105	112.952	47.897	8.230	1.00	43.42	A16S
ATOM	2010	C5	G	A	105	111.045	47.963	6.786	1.00	43.42	A16S
ATOM	2011	N7	G	A	105	111.202	46.935	5.862	1.00	43.42	A16S
ATOM	2012	C8	G	A	105	110.141	47.020	5.103	1.00	43.42	A16S
ATOM	2013	C2*	G	A	105	108.197	49.708	4.027	1.00	55.87	A16S
ATOM	2014	O2*	G	A	105	107.058	50.499	4.303	1.00	55.87	A16S
ATOM	2015	C3*	G	A	105	108.208	49.158	2.602	1.00	55.87	A16S
ATOM	2016	O3*	G	A	105	107.737	50.129	1.685	1.00	55.87	A16S
ATOM	2017	P	C	A	106	108.792	50.996	0.843	1.00	46.88	A16S
ATOM	2018	O1P	C	A	106	107.973	51.671	-0.206	1.00	46.30	A16S
ATOM	2019	O2P	C	A	106	109.946	50.134	0.441	1.00	46.30	A16S
ATOM	2020	O5*	C	A	106	109.340	52.041	1.911	1.00	46.88	A16S
ATOM	2021	C5*	C	A	106	108.485	53.054	2.430	1.00	46.88	A16S
ATOM	2022	C4*	C	A	106	109.142	53.751	3.593	1.00	46.88	A16S
ATOM	2023	O4*	C	A	106	109.266	52.829	4.704	1.00	46.88	A16S
ATOM	2024	C1*	C	A	106	110.405	53.168	5.480	1.00	46.88	A16S
ATOM	2025	N1	C	A	106	111.373	52.061	5.419	1.00	46.30	A16S
ATOM	2026	C6	C	A	106	111.292	51.096	4.452	1.00	46.30	A16S
ATOM	2027	C2	C	A	106	112.412	52.027	6.369	1.00	46.30	A16S
ATOM	2028	O2	C	A	106	112.460	52.919	7.242	1.00	46.30	A16S
ATOM	2029	N3	C	A	106	113.335	51.038	6.303	1.00	46.30	A16S
ATOM	2030	C4	C	A	106	113.259	50.122	5.334	1.00	46.30	A16S
ATOM	2031	N4	C	A	106	114.218	49.195	5.275	1.00	46.30	A16S
ATOM	2032	C5	C	A	106	112.206	50.122	4.371	1.00	46.30	A16S
ATOM	2033	C2*	C	A	106	111.029	54.403	4.846	1.00	46.88	A16S
ATOM	2034	O2*	C	A	106	110.520	55.570	5.468	1.00	46.88	A16S
ATOM	2035	C3*	C	A	106	110.564	54.249	3.409	1.00	46.88	A16S
ATOM	2036	O3*	C	A	106	110.696	55.441	2.669	1.00	46.88	A16S
ATOM	2037	P	G	A	107	111.980	55.617	1.719	1.00	34.19	A16S
ATOM	2038	O1P	G	A	107	111.675	56.769	0.827	1.00	45.02	A16S
ATOM	2039	O2P	G	A	107	112.353	54.290	1.122	1.00	45.02	A16S
ATOM	2040	O5*	G	A	107	113.154	55.973	2.728	1.00	34.19	A16S
ATOM	2041	C5*	G	A	107	113.054	57.093	3.592	1.00	34.19	A16S
ATOM	2042	C4*	G	A	107	114.175	57.067	4.594	1.00	34.19	A16S
ATOM	2043	O4*	G	A	107	113.962	55.997	5.549	1.00	34.19	A16S
ATOM	2044	C1*	G	A	107	115.214	55.449	5.939	1.00	34.19	A16S
ATOM	2045	N9	G	A	107	115.308	54.098	5.393	1.00	45.02	A16S
ATOM	2046	C4	G	A	107	116.271	53.157	5.693	1.00	45.02	A16S
ATOM	2047	N3	G	A	107	117.259	53.295	6.604	1.00	45.02	A16S
ATOM	2048	C2	G	A	107	118.079	52.255	6.608	1.00	45.02	A16S
ATOM	2049	N2	G	A	107	119.120	52.229	7.454	1.00	45.02	A16S
ATOM	2050	N1	G	A	107	117.942	51.163	5.781	1.00	45.02	A16S
ATOM	2051	C6	G	A	107	116.929	50.999	4.834	1.00	45.02	A16S
ATOM	2052	O6	G	A	107	116.907	49.983	4.114	1.00	45.02	A16S
ATOM	2053	C5	G	A	107	116.033	52.107	4.832	1.00	45.02	A16S
ATOM	2054	N7	G	A	107	114.911	52.355	4.051	1.00	45.02	A16S
ATOM	2055	C8	G	A	107	114.506	53.538	4.427	1.00	45.02	A16S
ATOM	2056	C2*	G	A	107	116.297	56.298	5.278	1.00	34.19	A16S
ATOM	2057	O2*	G	A	107	116.699	57.365	6.119	1.00	34.19	A16S
ATOM	2058	C3*	G	A	107	115.564	56.788	4.043	1.00	34.19	A16S
ATOM	2059	O3*	G	A	107	116.188	57.911	3.458	1.00	34.19	A16S
ATOM	2060	P	G	A	108	117.101	57.705	2.159	1.00	44.04	A16S
ATOM	2061	O1P	G	A	108	117.624	59.048	1.827	1.00	57.49	A16S
ATOM	2062	O2P	G	A	108	116.324	56.947	1.141	1.00	57.49	A16S
ATOM	2063	O5*	G	A	108	118.297	56.779	2.672	1.00	44.04	A16S
ATOM	2064	C5*	G	A	108	118.938	57.041	3.929	1.00	44.04	A16S
ATOM	2065	C4*	G	A	108	119.997	56.004	4.230	1.00	44.04	A16S
ATOM	2066	O4*	G	A	108	119.443	54.652	4.153	1.00	44.04	A16S
ATOM	2067	C1*	G	A	108	120.522	53.725	4.129	1.00	44.04	A16S
ATOM	2068	N9	G	A	108	120.369	52.639	3.147	1.00	57.49	A16S
ATOM	2069	C4	G	A	108	119.502	52.491	2.082	1.00	57.49	A16S
ATOM	2070	N3	G	A	108	118.483	53.307	1.760	1.00	57.49	A16S
ATOM	2071	C2	G	A	108	117.856	52.896	0.665	1.00	57.49	A16S
ATOM	2072	N2	G	A	108	116.774	53.567	0.214	1.00	57.49	A16S

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ATOM	2073	N1	G	A	108	118.235	51.793	-0.065	1.00	57.49	A16S
ATOM	2074	C6	G	A	108	119.301	50.959	0.246	1.00	57.49	A16S
ATOM	2075	O6	G	A	108	119.600	50.018	-0.500	1.00	57.49	A16S
ATOM	2076	C5	G	A	108	119.933	51.352	1.420	1.00	57.49	A16S
ATOM	2077	N7	G	A	108	120.998	50.765	2.077	1.00	57.49	A16S
ATOM	2078	C8	G	A	108	121.211	51.543	3.098	1.00	57.49	A16S
ATOM	2079	C2*	G	A	108	121.764	54.526	3.758	1.00	44.04	A16S
ATOM	2080	O2*	G	A	108	122.579	54.665	4.904	1.00	44.04	A16S
ATOM	2081	C3*	G	A	108	121.169	55.846	3.275	1.00	44.04	A16S
ATOM	2082	O3*	G	A	108	122.192	56.843	3.262	1.00	44.04	A16S
ATOM	2083	P	A	A	109	123.277	56.826	2.056	1.00	46.52	A16S
ATOM	2084	O1P	A	A	109	123.598	55.402	1.725	1.00	54.95	A16S
ATOM	2085	O2P	A	A	109	124.385	57.761	2.385	1.00	54.95	A16S
ATOM	2086	O5*	A	A	109	122.456	57.354	0.792	1.00	46.52	A16S
ATOM	2087	C5*	A	A	109	121.649	58.551	0.867	1.00	46.52	A16S
ATOM	2088	C4*	A	A	109	121.901	59.420	-0.347	1.00	46.52	A16S
ATOM	2089	O4*	A	A	109	121.649	58.642	-1.540	1.00	46.52	A16S
ATOM	2090	C1*	A	A	109	120.707	59.303	-2.346	1.00	46.52	A16S
ATOM	2091	N9	A	A	109	119.902	58.273	-2.986	1.00	54.95	A16S
ATOM	2092	C4	A	A	109	119.261	57.247	-2.343	1.00	54.95	A16S
ATOM	2093	N3	A	A	109	119.210	57.026	-1.018	1.00	54.95	A16S
ATOM	2094	C2	A	A	109	118.515	55.928	-0.762	1.00	54.95	A16S
ATOM	2095	N1	A	A	109	117.915	55.085	-1.616	1.00	54.95	A16S
ATOM	2096	C6	A	A	109	117.992	55.337	-2.938	1.00	54.95	A16S
ATOM	2097	N6	A	A	109	117.404	54.500	-3.784	1.00	54.95	A16S
ATOM	2098	C5	A	A	109	118.693	56.474	-3.342	1.00	54.95	A16S
ATOM	2099	N7	A	A	109	118.950	57.017	-4.594	1.00	54.95	A16S
ATOM	2100	C8	A	A	109	119.662	58.086	-4.327	1.00	54.95	A16S
ATOM	2101	C2*	A	A	109	119.962	60.275	-1.429	1.00	46.52	A16S
ATOM	2102	O2*	A	A	109	119.461	61.365	-2.177	1.00	46.52	A16S
ATOM	2103	C3*	A	A	109	121.072	60.697	-0.471	1.00	46.52	A16S
ATOM	2104	O3*	A	A	109	121.868	61.693	-1.134	1.00	46.52	A16S
ATOM	2105	P	C	A	110	123.044	62.457	-0.340	1.00	47.74	A16S
ATOM	2106	O1P	C	A	110	123.483	63.605	-1.184	1.00	49.83	A16S
ATOM	2107	O2P	C	A	110	124.061	61.483	0.142	1.00	49.83	A16S
ATOM	2108	O5*	C	A	110	122.283	63.033	0.934	1.00	47.74	A16S
ATOM	2109	C5*	C	A	110	121.134	63.883	0.773	1.00	47.74	A16S
ATOM	2110	C4*	C	A	110	120.538	64.227	2.116	1.00	47.74	A16S
ATOM	2111	O4*	C	A	110	120.039	63.015	2.734	1.00	47.74	A16S
ATOM	2112	C1*	C	A	110	120.168	63.118	4.139	1.00	47.74	A16S
ATOM	2113	N1	C	A	110	121.050	62.054	4.625	1.00	49.83	A16S
ATOM	2114	C6	C	A	110	121.833	61.321	3.775	1.00	49.83	A16S
ATOM	2115	C2	C	A	110	121.077	61.811	5.998	1.00	49.83	A16S
ATOM	2116	O2	C	A	110	120.355	62.504	6.745	1.00	49.83	A16S
ATOM	2117	N3	C	A	110	121.881	60.842	6.481	1.00	49.83	A16S
ATOM	2118	C4	C	A	110	122.637	60.128	5.647	1.00	49.83	A16S
ATOM	2119	N4	C	A	110	123.412	59.182	6.176	1.00	49.83	A16S
ATOM	2120	C5	C	A	110	122.633	60.356	4.238	1.00	49.83	A16S
ATOM	2121	C2*	C	A	110	120.779	64.478	4.464	1.00	47.74	A16S
ATOM	2122	O2*	C	A	110	119.752	65.379	4.817	1.00	47.74	A16S
ATOM	2123	C3*	C	A	110	121.481	64.810	3.158	1.00	47.74	A16S
ATOM	2124	O3*	C	A	110	121.688	66.197	3.023	1.00	47.74	A16S
ATOM	2125	P	G	A	111	123.139	66.811	3.347	1.00	31.25	A16S
ATOM	2126	O1P	G	A	111	122.986	68.303	3.274	1.00	55.79	A16S
ATOM	2127	O2P	G	A	111	124.189	66.117	2.520	1.00	55.79	A16S
ATOM	2128	O5*	G	A	111	123.426	66.447	4.870	1.00	31.25	A16S
ATOM	2129	C5*	G	A	111	122.750	67.149	5.910	1.00	31.25	A16S
ATOM	2130	C4*	G	A	111	123.002	66.484	7.222	1.00	31.25	A16S
ATOM	2131	O4*	G	A	111	122.505	65.122	7.169	1.00	31.25	A16S
ATOM	2132	C1*	G	A	111	123.405	64.257	7.842	1.00	31.25	A16S
ATOM	2133	N9	G	A	111	124.012	63.384	6.835	1.00	55.79	A16S
ATOM	2134	C4	G	A	111	124.666	62.193	7.056	1.00	55.79	A16S
ATOM	2135	N3	G	A	111	124.818	61.579	8.248	1.00	55.79	A16S
ATOM	2136	C2	G	A	111	125.518	60.473	8.141	1.00	55.79	A16S
ATOM	2137	N2	G	A	111	125.784	59.753	9.222	1.00	55.79	A16S
ATOM	2138	N1	G	A	111	126.018	59.993	6.963	1.00	55.79	A16S
ATOM	2139	C6	G	A	111	125.869	60.599	5.721	1.00	55.79	A16S
ATOM	2140	O6	G	A	111	126.356	60.068	4.704	1.00	55.79	A16S
ATOM	2141	C5	G	A	111	125.131	61.798	5.820	1.00	55.79	A16S
ATOM	2142	N7	G	A	111	124.750	62.698	4.838	1.00	55.79	A16S
ATOM	2143	C8	G	A	111	124.082	63.615	5.481	1.00	55.79	A16S
ATOM	2144	C2*	G	A	111	124.476	65.145	8.491	1.00	31.25	A16S
ATOM	2145	O2*	G	A	111	124.160	65.487	9.836	1.00	31.25	A16S
ATOM	2146	C3*	G	A	111	124.465	66.340	7.553	1.00	31.25	A16S
ATOM	2147	O3*	G	A	111	125.010	67.517	8.095	1.00	31.25	A16S
ATOM	2148	P	G	A	112	126.288	68.173	7.371	1.00	41.49	A16S
ATOM	2149	O1P	G	A	112	126.517	69.512	7.989	1.00	51.41	A16S

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ATOM	2150	O2P	G	A	112	126.073	68.055	5.889	1.00	51.41	A16S
ATOM	2151	O5*	G	A	112	127.502	67.217	7.760	1.00	41.49	A16S
ATOM	2152	C5*	G	A	112	127.857	67.038	9.133	1.00	41.49	A16S
ATOM	2153	C4*	G	A	112	128.895	65.961	9.274	1.00	41.49	A16S
ATOM	2154	O4*	G	A	112	128.333	64.711	8.810	1.00	41.49	A16S
ATOM	2155	C1*	G	A	112	129.348	63.918	8.234	1.00	41.49	A16S
ATOM	2156	N9	G	A	112	129.065	63.776	6.810	1.00	51.41	A16S
ATOM	2157	C4	G	A	112	129.860	63.128	5.890	1.00	51.41	A16S
ATOM	2158	N3	G	A	112	131.017	62.488	6.158	1.00	51.41	A16S
ATOM	2159	C2	G	A	112	131.559	61.969	5.066	1.00	51.41	A16S
ATOM	2160	N2	G	A	112	132.709	61.283	5.161	1.00	51.41	A16S
ATOM	2161	N1	G	A	112	131.017	62.080	3.807	1.00	51.41	A16S
ATOM	2162	C6	G	A	112	129.833	62.734	3.508	1.00	51.41	A16S
ATOM	2163	O6	G	A	112	129.444	62.781	2.344	1.00	51.41	A16S
ATOM	2164	C5	G	A	112	129.226	63.286	4.678	1.00	51.41	A16S
ATOM	2165	N7	G	A	112	128.043	64.000	4.833	1.00	51.41	A16S
ATOM	2166	C8	G	A	112	127.989	64.268	6.112	1.00	51.41	A16S
ATOM	2167	C2*	G	A	112	130.657	64.671	8.424	1.00	41.49	A16S
ATOM	2168	O2*	G	A	112	131.222	64.290	9.660	1.00	41.49	A16S
ATOM	2169	C3*	G	A	112	130.166	66.103	8.459	1.00	41.49	A16S
ATOM	2170	O3*	G	A	112	131.130	66.999	8.994	1.00	41.49	A16S
ATOM	2171	P	G	A	113	132.003	67.900	7.975	1.00	48.08	A16S
ATOM	2172	O1P	G	A	113	132.775	68.920	8.769	1.00	32.92	A16S
ATOM	2173	O2P	G	A	113	131.099	68.350	6.875	1.00	32.92	A16S
ATOM	2174	O5*	G	A	113	133.027	66.863	7.320	1.00	48.08	A16S
ATOM	2175	C5*	G	A	113	133.824	65.993	8.147	1.00	48.08	A16S
ATOM	2176	C4*	G	A	113	134.751	65.159	7.301	1.00	48.08	A16S
ATOM	2177	O4*	G	A	113	133.987	64.231	6.504	1.00	48.08	A16S
ATOM	2178	C1*	G	A	113	134.633	64.021	5.265	1.00	48.08	A16S
ATOM	2179	N9	G	A	113	133.715	64.403	4.201	1.00	32.92	A16S
ATOM	2180	C4	G	A	113	133.882	64.212	2.847	1.00	32.92	A16S
ATOM	2181	N3	G	A	113	134.950	63.656	2.243	1.00	32.92	A16S
ATOM	2182	C2	G	A	113	134.794	63.590	0.926	1.00	32.92	A16S
ATOM	2183	N2	G	A	113	135.745	63.050	0.165	1.00	32.92	A16S
ATOM	2184	N1	G	A	113	133.693	64.044	0.262	1.00	32.92	A16S
ATOM	2185	C6	G	A	113	132.588	64.628	0.866	1.00	32.92	A16S
ATOM	2186	O6	G	A	113	131.643	65.014	0.179	1.00	32.92	A16S
ATOM	2187	C5	G	A	113	132.732	64.696	2.269	1.00	32.92	A16S
ATOM	2188	N7	G	A	113	131.870	65.196	3.230	1.00	32.92	A16S
ATOM	2189	C8	G	A	113	132.497	65.007	4.357	1.00	32.92	A16S
ATOM	2190	C2*	G	A	113	135.924	64.828	5.278	1.00	48.08	A16S
ATOM	2191	O2*	G	A	113	136.947	63.982	5.764	1.00	48.08	A16S
ATOM	2192	C3*	G	A	113	135.598	65.909	6.293	1.00	48.08	A16S
ATOM	2193	O3*	G	A	113	136.777	66.432	6.887	1.00	48.08	A16S
ATOM	2194	P	U	A	114	137.356	67.847	6.377	1.00	43.24	A16S
ATOM	2195	O1P	U	A	114	138.442	68.284	7.298	1.00	41.97	A16S
ATOM	2196	O2P	U	A	114	136.191	68.749	6.131	1.00	41.97	A16S
ATOM	2197	O5*	U	A	114	137.995	67.494	4.970	1.00	43.24	A16S
ATOM	2198	C5*	U	A	114	139.082	66.589	4.887	1.00	43.24	A16S
ATOM	2199	C4*	U	A	114	139.300	66.216	3.459	1.00	43.24	A16S
ATOM	2200	O4*	U	A	114	138.093	65.600	2.961	1.00	43.24	A16S
ATOM	2201	C1*	U	A	114	137.943	65.908	1.599	1.00	43.24	A16S
ATOM	2202	N1	U	A	114	136.603	66.474	1.388	1.00	41.97	A16S
ATOM	2203	C6	U	A	114	135.882	67.013	2.422	1.00	41.97	A16S
ATOM	2204	C2	U	A	114	136.079	66.438	0.091	1.00	41.97	A16S
ATOM	2205	O2	U	A	114	136.683	65.984	-0.870	1.00	41.97	A16S
ATOM	2206	N3	U	A	114	134.821	66.955	-0.042	1.00	41.97	A16S
ATOM	2207	C4	U	A	114	134.045	67.495	0.943	1.00	41.97	A16S
ATOM	2208	O4	U	A	114	132.901	67.877	0.662	1.00	41.97	A16S
ATOM	2209	C5	U	A	114	134.657	67.511	2.252	1.00	41.97	A16S
ATOM	2210	C2*	U	A	114	139.111	66.808	1.182	1.00	43.24	A16S
ATOM	2211	O2*	U	A	114	140.118	65.987	0.629	1.00	43.24	A16S
ATOM	2212	C3*	U	A	114	139.570	67.376	2.514	1.00	43.24	A16S
ATOM	2213	O3*	U	A	114	140.969	67.677	2.505	1.00	43.24	A16S
ATOM	2214	P	G	A	115	141.487	69.171	2.176	1.00	47.13	A16S
ATOM	2215	O1P	G	A	115	142.917	69.205	2.645	1.00	46.68	A16S
ATOM	2216	O2P	G	A	115	140.542	70.189	2.689	1.00	46.68	A16S
ATOM	2217	O5*	G	A	115	141.421	69.232	0.585	1.00	47.13	A16S
ATOM	2218	C5*	G	A	115	142.104	68.255	-0.221	1.00	47.13	A16S
ATOM	2219	C4*	G	A	115	141.603	68.328	-1.636	1.00	47.13	A16S
ATOM	2220	O4*	G	A	115	140.178	68.175	-1.554	1.00	47.13	A16S
ATOM	2221	C1*	G	A	115	139.556	68.947	-2.549	1.00	47.13	A16S
ATOM	2222	N9	G	A	115	138.236	69.350	-2.061	1.00	46.68	A16S
ATOM	2223	C4	G	A	115	137.116	69.594	-2.829	1.00	46.68	A16S
ATOM	2224	N3	G	A	115	137.057	69.575	-4.177	1.00	46.68	A16S
ATOM	2225	C2	G	A	115	135.841	69.848	-4.621	1.00	46.68	A16S
ATOM	2226	N2	G	A	115	135.608	69.904	-5.942	1.00	46.68	A16S

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ATOM	2227	N1	G	A	115	134.762	70.097	-3.808	1.00	46.68	A16S
ATOM	2228	C6	G	A	115	134.796	70.112	-2.420	1.00	46.68	A16S
ATOM	2229	O6	G	A	115	133.764	70.336	-1.786	1.00	46.68	A16S
ATOM	2230	C5	G	A	115	136.099	69.842	-1.927	1.00	46.68	A16S
ATOM	2231	N7	G	A	115	136.570	69.784	-0.624	1.00	46.68	A16S
ATOM	2232	C8	G	A	115	137.842	69.502	-0.750	1.00	46.68	A16S
ATOM	2233	C2*	G	A	115	140.541	69.994	-3.088	1.00	47.13	A16S
ATOM	2234	O2*	G	A	115	140.563	69.928	-4.502	1.00	47.13	A16S
ATOM	2235	C3*	G	A	115	141.829	69.677	-2.299	1.00	47.13	A16S
ATOM	2236	O3*	G	A	115	143.191	69.824	-2.827	1.00	47.13	A16S
ATOM	2237	P	A	A	116	143.643	69.257	-4.293	1.00	43.03	A16S
ATOM	2238	O1P	A	A	116	145.047	69.730	-4.433	1.00	38.42	A16S
ATOM	2239	O2P	A	A	116	142.660	69.585	-5.367	1.00	38.42	A16S
ATOM	2240	O5*	A	A	116	143.719	67.667	-4.178	1.00	43.03	A16S
ATOM	2241	C5*	A	A	116	144.913	66.948	-4.593	1.00	43.03	A16S
ATOM	2242	C4*	A	A	116	144.564	65.805	-5.527	1.00	43.03	A16S
ATOM	2243	O4*	A	A	116	143.520	64.998	-4.919	1.00	43.03	A16S
ATOM	2244	C1*	A	A	116	142.571	64.617	-5.905	1.00	43.03	A16S
ATOM	2245	N9	A	A	116	141.329	65.358	-5.658	1.00	38.42	A16S
ATOM	2246	C4	A	A	116	140.132	65.165	-6.297	1.00	38.42	A16S
ATOM	2247	N3	A	A	116	139.846	64.231	-7.209	1.00	38.42	A16S
ATOM	2248	C2	A	A	116	138.604	64.364	-7.632	1.00	38.42	A16S
ATOM	2249	N1	A	A	116	137.687	65.263	-7.282	1.00	38.42	A16S
ATOM	2250	C6	A	A	116	138.014	66.198	-6.370	1.00	38.42	A16S
ATOM	2251	N6	A	A	116	137.106	67.118	-6.040	1.00	38.42	A16S
ATOM	2252	C5	A	A	116	139.294	66.153	-5.832	1.00	38.42	A16S
ATOM	2253	N7	A	A	116	139.930	66.938	-4.885	1.00	38.42	A16S
ATOM	2254	C8	A	A	116	141.127	66.420	-4.804	1.00	38.42	A16S
ATOM	2255	C2*	A	A	116	143.142	65.024	-7.268	1.00	43.03	A16S
ATOM	2256	O2*	A	A	116	143.867	63.955	-7.827	1.00	43.03	A16S
ATOM	2257	C3*	A	A	116	144.028	66.204	-6.898	1.00	43.03	A16S
ATOM	2258	O3*	A	A	116	145.087	66.344	-7.849	1.00	43.03	A16S
ATOM	2259	P	G	A	117	145.082	67.573	-8.902	1.00	44.98	A16S
ATOM	2260	O1P	G	A	117	144.491	68.740	-8.180	1.00	56.55	A16S
ATOM	2261	O2P	G	A	117	146.452	67.699	-9.491	1.00	56.55	A16S
ATOM	2262	O5*	G	A	117	144.054	67.120	-10.047	1.00	44.98	A16S
ATOM	2263	C5*	G	A	117	144.111	65.807	-10.628	1.00	44.98	A16S
ATOM	2264	C4*	G	A	117	142.741	65.378	-11.110	1.00	44.98	A16S
ATOM	2265	O4*	G	A	117	141.853	65.260	-9.976	1.00	44.98	A16S
ATOM	2266	C1*	G	A	117	140.552	65.684	-10.340	1.00	44.98	A16S
ATOM	2267	N9	G	A	117	140.207	66.816	-9.490	1.00	56.55	A16S
ATOM	2268	C4	G	A	117	139.045	67.545	-9.510	1.00	56.55	A16S
ATOM	2269	N3	G	A	117	138.012	67.362	-10.347	1.00	56.55	A16S
ATOM	2270	C2	G	A	117	137.027	68.198	-10.096	1.00	56.55	A16S
ATOM	2271	N2	G	A	117	135.916	68.154	-10.836	1.00	56.55	A16S
ATOM	2272	N1	G	A	117	137.054	69.138	-9.100	1.00	56.55	A16S
ATOM	2273	C6	G	A	117	138.110	69.338	-8.221	1.00	56.55	A16S
ATOM	2274	O6	G	A	117	138.031	70.196	-7.332	1.00	56.55	A16S
ATOM	2275	C5	G	A	117	139.172	68.463	-8.488	1.00	56.55	A16S
ATOM	2276	N7	G	A	117	140.402	68.337	-7.860	1.00	56.55	A16S
ATOM	2277	C8	G	A	117	140.982	67.351	-8.489	1.00	56.55	A16S
ATOM	2278	C2*	G	A	117	140.564	66.029	-11.827	1.00	44.98	A16S
ATOM	2279	O2*	G	A	117	140.142	64.918	-12.579	1.00	44.98	A16S
ATOM	2280	C3*	G	A	117	142.035	66.329	-12.063	1.00	44.98	A16S
ATOM	2281	O3*	G	A	117	142.370	66.070	-13.417	1.00	44.98	A16S
ATOM	2282	P	U	A	118	142.759	67.298	-14.373	1.00	46.49	A16S
ATOM	2283	O1P	U	A	118	143.087	66.793	-15.739	1.00	54.75	A16S
ATOM	2284	O2P	U	A	118	143.776	68.076	-13.597	1.00	54.75	A16S
ATOM	2285	O5*	U	A	118	141.411	68.144	-14.509	1.00	46.49	A16S
ATOM	2286	C5*	U	A	118	140.229	67.575	-15.109	1.00	46.49	A16S
ATOM	2287	C4*	U	A	118	139.027	68.465	-14.861	1.00	46.49	A16S
ATOM	2288	O4*	U	A	118	138.759	68.566	-13.435	1.00	46.49	A16S
ATOM	2289	C1*	U	A	118	138.230	69.847	-13.134	1.00	46.49	A16S
ATOM	2290	N1	U	A	118	139.118	70.515	-12.168	1.00	54.75	A16S
ATOM	2291	C6	U	A	118	140.437	70.166	-12.055	1.00	54.75	A16S
ATOM	2292	C2	U	A	118	138.582	71.516	-11.376	1.00	54.75	A16S
ATOM	2293	O2	U	A	118	137.415	71.862	-11.441	1.00	54.75	A16S
ATOM	2294	N3	U	A	118	139.464	72.104	-10.499	1.00	54.75	A16S
ATOM	2295	C4	U	A	118	140.799	71.793	-10.330	1.00	54.75	A16S
ATOM	2296	O4	U	A	118	141.443	72.332	-9.421	1.00	54.75	A16S
ATOM	2297	C5	U	A	118	141.274	70.754	-11.191	1.00	54.75	A16S
ATOM	2298	C2*	U	A	118	138.116	70.612	-14.450	1.00	46.49	A16S
ATOM	2299	O2*	U	A	118	136.804	70.458	-14.953	1.00	46.49	A16S
ATOM	2300	C3*	U	A	118	139.149	69.904	-15.313	1.00	46.49	A16S
ATOM	2301	O3*	U	A	118	138.852	70.036	-16.680	1.00	46.49	A16S
ATOM	2302	P	A	A	119	139.716	71.049	-17.571	1.00	47.53	A16S
ATOM	2303	O1P	A	A	119	139.318	70.818	-18.984	1.00	38.47	A16S

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ATOM	2304	O2P	A	A	119	141.138	70.924	-17.165	1.00	38.47	A16S
ATOM	2305	O5*	A	A	119	139.248	72.508	-17.138	1.00	47.53	A16S
ATOM	2306	C5*	A	A	119	138.051	73.101	-17.675	1.00	47.53	A16S
ATOM	2307	C4*	A	A	119	138.334	74.514	-18.118	1.00	47.53	A16S
ATOM	2308	O4*	A	A	119	138.843	75.247	-16.991	1.00	47.53	A16S
ATOM	2309	C1*	A	A	119	139.731	76.239	-17.440	1.00	47.53	A16S
ATOM	2310	N9	A	A	119	140.787	76.397	-16.449	1.00	38.47	A16S
ATOM	2311	C4	A	A	119	140.913	77.492	-15.625	1.00	38.47	A16S
ATOM	2312	N3	A	A	119	140.110	78.573	-15.573	1.00	38.47	A16S
ATOM	2313	C2	A	A	119	140.543	79.443	-14.650	1.00	38.47	A16S
ATOM	2314	N1	A	A	119	141.617	79.369	-13.850	1.00	38.47	A16S
ATOM	2315	C6	A	A	119	142.407	78.273	-13.939	1.00	38.47	A16S
ATOM	2316	N6	A	A	119	143.493	78.210	-13.169	1.00	38.47	A16S
ATOM	2317	C5	A	A	119	142.039	77.261	-14.858	1.00	38.47	A16S
ATOM	2318	N7	A	A	119	142.601	76.029	-15.172	1.00	38.47	A16S
ATOM	2319	C8	A	A	119	141.822	75.561	-16.124	1.00	38.47	A16S
ATOM	2320	C2*	A	A	119	140.153	75.939	-18.880	1.00	47.53	A16S
ATOM	2321	O2*	A	A	119	139.858	77.031	-19.728	1.00	47.53	A16S
ATOM	2322	C3*	A	A	119	139.425	74.622	-19.171	1.00	47.53	A16S
ATOM	2323	O3*	A	A	119	138.919	74.413	-20.520	1.00	47.53	A16S
ATOM	2324	P	A	A	120	137.584	75.179	-21.057	1.00	63.35	A16S
ATOM	2325	O1P	A	A	120	137.484	74.835	-22.509	1.00	43.81	A16S
ATOM	2326	O2P	A	A	120	137.553	76.614	-20.644	1.00	43.81	A16S
ATOM	2327	O5*	A	A	120	136.372	74.427	-20.340	1.00	63.35	A16S
ATOM	2328	C5*	A	A	120	135.936	73.120	-20.778	1.00	63.35	A16S
ATOM	2329	C4*	A	A	120	134.773	72.664	-19.935	1.00	63.35	A16S
ATOM	2330	O4*	A	A	120	135.194	72.738	-18.550	1.00	63.35	A16S
ATOM	2331	C1*	A	A	120	134.160	73.281	-17.752	1.00	63.35	A16S
ATOM	2332	N9	A	A	120	134.680	74.515	-17.149	1.00	43.81	A16S
ATOM	2333	C4	A	A	120	135.280	74.613	-15.911	1.00	43.81	A16S
ATOM	2334	N3	A	A	120	135.449	73.632	-15.003	1.00	43.81	A16S
ATOM	2335	C2	A	A	120	136.120	74.085	-13.939	1.00	43.81	A16S
ATOM	2336	N1	A	A	120	136.611	75.316	-13.698	1.00	43.81	A16S
ATOM	2337	C6	A	A	120	136.430	76.275	-14.635	1.00	43.81	A16S
ATOM	2338	N6	A	A	120	136.940	77.490	-14.412	1.00	43.81	A16S
ATOM	2339	C5	A	A	120	135.718	75.923	-15.807	1.00	43.81	A16S
ATOM	2340	N7	A	A	120	135.364	76.649	-16.934	1.00	43.81	A16S
ATOM	2341	C8	A	A	120	134.741	75.775	-17.691	1.00	43.81	A16S
ATOM	2342	C2*	A	A	120	132.917	73.404	-18.638	1.00	63.35	A16S
ATOM	2343	O2*	A	A	120	132.177	72.204	-18.521	1.00	63.35	A16S
ATOM	2344	C3*	A	A	120	133.529	73.538	-20.029	1.00	63.35	A16S
ATOM	2345	O3*	A	A	120	132.647	73.040	-21.044	1.00	63.35	A16S
ATOM	2346	P	C	A	121	131.670	74.053	-21.838	1.00	70.73	A16S
ATOM	2347	O1P	C	A	121	130.923	73.273	-22.870	1.00	50.97	A16S
ATOM	2348	O2P	C	A	121	132.469	75.240	-22.252	1.00	50.97	A16S
ATOM	2349	O5*	C	A	121	130.619	74.544	-20.743	1.00	70.73	A16S
ATOM	2350	C5*	C	A	121	129.523	73.712	-20.327	1.00	70.73	A16S
ATOM	2351	C4*	C	A	121	129.051	74.131	-18.959	1.00	70.73	A16S
ATOM	2352	O4*	C	A	121	128.603	75.513	-18.992	1.00	70.73	A16S
ATOM	2353	C1*	C	A	121	127.289	75.607	-18.473	1.00	70.73	A16S
ATOM	2354	N1	C	A	121	126.574	76.703	-19.170	1.00	50.97	A16S
ATOM	2355	C6	C	A	121	126.509	76.716	-20.535	1.00	50.97	A16S
ATOM	2356	C2	C	A	121	125.957	77.755	-18.412	1.00	50.97	A16S
ATOM	2357	O2	C	A	121	126.006	77.746	-17.167	1.00	50.97	A16S
ATOM	2358	N3	C	A	121	125.324	78.748	-19.072	1.00	50.97	A16S
ATOM	2359	C4	C	A	121	125.275	78.736	-20.412	1.00	50.97	A16S
ATOM	2360	N4	C	A	121	124.622	79.728	-21.028	1.00	50.97	A16S
ATOM	2361	C5	C	A	121	125.884	77.701	-21.187	1.00	50.97	A16S
ATOM	2362	C2*	C	A	121	126.687	74.213	-18.652	1.00	70.73	A16S
ATOM	2363	O2*	C	A	121	125.620	74.011	-17.748	1.00	70.73	A16S
ATOM	2364	C3*	C	A	121	127.900	73.316	-18.392	1.00	70.73	A16S
ATOM	2365	O3*	C	A	121	128.111	73.163	-16.987	1.00	70.73	A16S
ATOM	2366	P	G	A	122	128.793	71.820	-16.409	1.00	47.19	A16S
ATOM	2367	O1P	G	A	122	127.848	70.682	-16.627	1.00	52.18	A16S
ATOM	2368	O2P	G	A	122	130.184	71.701	-16.903	1.00	52.18	A16S
ATOM	2369	O5*	G	A	122	128.892	72.137	-14.855	1.00	47.19	A16S
ATOM	2370	C5*	G	A	122	129.339	71.138	-13.945	1.00	47.19	A16S
ATOM	2371	C4*	G	A	122	130.301	71.733	-12.970	1.00	47.19	A16S
ATOM	2372	O4*	G	A	122	131.519	72.077	-13.668	1.00	47.19	A16S
ATOM	2373	C1*	G	A	122	132.056	73.274	-13.134	1.00	47.19	A16S
ATOM	2374	N9	G	A	122	132.101	74.279	-14.196	1.00	52.18	A16S
ATOM	2375	C4	G	A	122	132.606	75.552	-14.087	1.00	52.18	A16S
ATOM	2376	N3	G	A	122	133.185	76.078	-12.994	1.00	52.18	A16S
ATOM	2377	C2	G	A	122	133.538	77.330	-13.178	1.00	52.18	A16S
ATOM	2378	N2	G	A	122	134.147	78.004	-12.183	1.00	52.18	A16S
ATOM	2379	N1	G	A	122	133.323	78.016	-14.346	1.00	52.18	A16S
ATOM	2380	C6	G	A	122	132.717	77.495	-15.481	1.00	52.18	A16S

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ATOM	2381	O6	G	A	122	132.543	78.211	-16.478	1.00	52.18	A16S
ATOM	2382	C5	G	A	122	132.357	76.150	-15.301	1.00	52.18	A16S
ATOM	2383	N7	G	A	122	131.746	75.262	-16.173	1.00	52.18	A16S
ATOM	2384	C8	G	A	122	131.619	74.165	-15.479	1.00	52.18	A16S
ATOM	2385	C2*	G	A	122	131.148	73.709	-11.979	1.00	47.19	A16S
ATOM	2386	O2*	G	A	122	131.667	73.258	-10.738	1.00	47.19	A16S
ATOM	2387	C3*	G	A	122	129.836	73.036	-12.356	1.00	47.19	A16S
ATOM	2388	O3*	G	A	122	128.939	72.851	-11.262	1.00	47.19	A16S
ATOM	2389	P	C	A	123	127.744	73.911	-11.037	1.00	37.98	A16S
ATOM	2390	O1P	C	A	123	126.833	73.387	-9.986	1.00	42.94	A16S
ATOM	2391	O2P	C	A	123	127.186	74.244	-12.384	1.00	42.94	A16S
ATOM	2392	O5*	C	A	123	128.500	75.203	-10.487	1.00	37.98	A16S
ATOM	2393	C5*	C	A	123	129.397	75.124	-9.359	1.00	37.98	A16S
ATOM	2394	C4*	C	A	123	130.136	76.432	-9.191	1.00	37.98	A16S
ATOM	2395	O4*	C	A	123	131.050	76.619	-10.306	1.00	37.98	A16S
ATOM	2396	C1*	C	A	123	131.099	77.993	-10.661	1.00	37.98	A16S
ATOM	2397	N1	C	A	123	130.581	78.152	-12.029	1.00	42.94	A16S
ATOM	2398	C6	C	A	123	129.763	77.213	-12.582	1.00	42.94	A16S
ATOM	2399	C2	C	A	123	130.929	79.301	-12.754	1.00	42.94	A16S
ATOM	2400	O2	C	A	123	131.696	80.136	-12.238	1.00	42.94	A16S
ATOM	2401	N3	C	A	123	130.424	79.473	-13.996	1.00	42.94	A16S
ATOM	2402	C4	C	A	123	129.610	78.556	-14.515	1.00	42.94	A16S
ATOM	2403	N4	C	A	123	129.115	78.775	-15.730	1.00	42.94	A16S
ATOM	2404	C5	C	A	123	129.260	77.374	-13.809	1.00	42.94	A16S
ATOM	2405	C2*	C	A	123	130.230	78.757	-9.669	1.00	37.98	A16S
ATOM	2406	O2*	C	A	123	131.046	79.206	-8.614	1.00	37.98	A16S
ATOM	2407	C3*	C	A	123	129.263	77.678	-9.217	1.00	37.98	A16S
ATOM	2408	O3*	C	A	123	128.673	77.982	-7.966	1.00	37.98	A16S
ATOM	2409	P	G	A	124	127.237	78.708	-7.935	1.00	41.47	A16S
ATOM	2410	O1P	G	A	124	126.827	78.816	-6.507	1.00	34.60	A16S
ATOM	2411	O2P	G	A	124	126.328	78.041	-8.919	1.00	34.60	A16S
ATOM	2412	O5*	G	A	124	127.530	80.173	-8.482	1.00	41.47	A16S
ATOM	2413	C5*	G	A	124	128.407	81.066	-7.772	1.00	41.47	A16S
ATOM	2414	C4*	G	A	124	128.499	82.394	-8.490	1.00	41.47	A16S
ATOM	2415	O4*	G	A	124	129.224	82.238	-9.736	1.00	41.47	A16S
ATOM	2416	C1*	G	A	124	128.712	83.138	-10.701	1.00	41.47	A16S
ATOM	2417	N9	G	A	124	128.237	82.381	-11.853	1.00	34.60	A16S
ATOM	2418	C4	G	A	124	128.062	82.874	-13.119	1.00	34.60	A16S
ATOM	2419	N3	G	A	124	128.307	84.137	-13.513	1.00	34.60	A16S
ATOM	2420	C2	G	A	124	128.029	84.321	-14.792	1.00	34.60	A16S
ATOM	2421	N2	G	A	124	128.220	85.534	-15.339	1.00	34.60	A16S
ATOM	2422	N1	G	A	124	127.546	83.342	-15.625	1.00	34.60	A16S
ATOM	2423	C6	G	A	124	127.272	82.036	-15.243	1.00	34.60	A16S
ATOM	2424	O6	G	A	124	126.796	81.229	-16.074	1.00	34.60	A16S
ATOM	2425	C5	G	A	124	127.580	81.821	-13.862	1.00	34.60	A16S
ATOM	2426	N7	G	A	124	127.458	80.685	-13.077	1.00	34.60	A16S
ATOM	2427	C8	G	A	124	127.863	81.064	-11.896	1.00	34.60	A16S
ATOM	2428	C2*	G	A	124	127.590	83.935	-10.042	1.00	41.47	A16S
ATOM	2429	O2*	G	A	124	128.115	85.140	-9.534	1.00	41.47	A16S
ATOM	2430	C3*	G	A	124	127.176	83.012	-8.910	1.00	41.47	A16S
ATOM	2431	O3*	G	A	124	126.552	83.732	-7.860	1.00	41.47	A16S
ATOM	2432	P	U	A	125	124.947	83.740	-7.758	1.00	39.08	A16S
ATOM	2433	O1P	U	A	125	124.643	84.432	-6.467	1.00	43.55	A16S
ATOM	2434	O2P	U	A	125	124.405	82.372	-8.020	1.00	43.55	A16S
ATOM	2435	O5*	U	A	125	124.498	84.649	-8.978	1.00	39.08	A16S
ATOM	2436	C5*	U	A	125	124.949	86.002	-9.052	1.00	39.08	A16S
ATOM	2437	C4*	U	A	125	124.605	86.587	-10.387	1.00	39.08	A16S
ATOM	2438	O4*	U	A	125	125.383	85.931	-11.415	1.00	39.08	A16S
ATOM	2439	C1*	U	A	125	124.651	85.918	-12.617	1.00	39.08	A16S
ATOM	2440	N1	U	A	125	124.573	84.543	-13.126	1.00	43.55	A16S
ATOM	2441	C6	U	A	125	124.667	83.432	-12.304	1.00	43.55	A16S
ATOM	2442	C2	U	A	125	124.398	84.404	-14.491	1.00	43.55	A16S
ATOM	2443	O2	U	A	125	124.300	85.367	-15.242	1.00	43.55	A16S
ATOM	2444	N3	U	A	125	124.336	83.107	-14.950	1.00	43.55	A16S
ATOM	2445	C4	U	A	125	124.431	81.940	-14.204	1.00	43.55	A16S
ATOM	2446	O4	U	A	125	124.495	80.833	-14.798	1.00	43.55	A16S
ATOM	2447	C5	U	A	125	124.601	82.166	-12.780	1.00	43.55	A16S
ATOM	2448	C2*	U	A	125	123.294	86.564	-12.346	1.00	39.08	A16S
ATOM	2449	O2*	U	A	125	123.382	87.930	-12.707	1.00	39.08	A16S
ATOM	2450	C3*	U	A	125	123.172	86.393	-10.839	1.00	39.08	A16S
ATOM	2451	O3*	U	A	125	122.286	87.322	-10.226	1.00	39.08	A16S
ATOM	2452	P	G	A	126	120.753	86.891	-9.938	1.00	37.25	A16S
ATOM	2453	O1P	G	A	126	120.167	88.011	-9.135	1.00	57.39	A16S
ATOM	2454	O2P	G	A	126	120.684	85.498	-9.407	1.00	57.39	A16S
ATOM	2455	O5*	G	A	126	120.108	86.906	-11.394	1.00	37.25	A16S
ATOM	2456	C5*	G	A	126	120.024	88.141	-12.087	1.00	37.25	A16S
ATOM	2457	C4*	G	A	126	119.734	87.921	-13.531	1.00	37.25	A16S

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ATOM	2458	O4*	G	A	126	120.793	87.139	-14.139	1.00	37.25	A16S
ATOM	2459	C1*	G	A	126	120.269	86.424	-15.251	1.00	37.25	A16S
ATOM	2460	N9	G	A	126	120.625	85.008	-15.130	1.00	57.39	A16S
ATOM	2461	C4	G	A	126	120.717	84.090	-16.161	1.00	57.39	A16S
ATOM	2462	N3	G	A	126	120.513	84.340	-17.473	1.00	57.39	A16S
ATOM	2463	C2	G	A	126	120.676	83.256	-18.215	1.00	57.39	A16S
ATOM	2464	N2	G	A	126	120.531	83.325	-19.546	1.00	57.39	A16S
ATOM	2465	N1	G	A	126	120.999	82.027	-17.711	1.00	57.39	A16S
ATOM	2466	C6	G	A	126	121.217	81.746	-16.369	1.00	57.39	A16S
ATOM	2467	O6	G	A	126	121.511	80.594	-16.022	1.00	57.39	A16S
ATOM	2468	C5	G	A	126	121.057	82.899	-15.561	1.00	57.39	A16S
ATOM	2469	N7	G	A	126	121.190	83.058	-14.189	1.00	57.39	A16S
ATOM	2470	C8	G	A	126	120.926	84.321	-13.978	1.00	57.39	A16S
ATOM	2471	C2*	G	A	126	118.757	86.675	-15.286	1.00	37.25	A16S
ATOM	2472	O2*	G	A	126	118.463	87.651	-16.274	1.00	37.25	A16S
ATOM	2473	C3*	G	A	126	118.485	87.138	-13.852	1.00	37.25	A16S
ATOM	2474	O3*	G	A	126	117.302	87.911	-13.699	1.00	37.25	A16S
ATOM	2475	P	G	A	127	115.870	87.172	-13.725	1.00	44.86	A16S
ATOM	2476	O1P	G	A	127	114.827	88.232	-13.730	1.00	50.65	A16S
ATOM	2477	O2P	G	A	127	115.836	86.110	-12.683	1.00	50.65	A16S
ATOM	2478	O5*	G	A	127	115.877	86.501	-15.170	1.00	44.86	A16S
ATOM	2479	C5*	G	A	127	115.040	85.401	-15.495	1.00	44.86	A16S
ATOM	2480	C4*	G	A	127	115.250	85.032	-16.933	1.00	44.86	A16S
ATOM	2481	O4*	G	A	127	116.652	84.740	-17.118	1.00	44.86	A16S
ATOM	2482	C1*	G	A	127	116.805	83.646	-18.009	1.00	44.86	A16S
ATOM	2483	N9	G	A	127	117.390	82.532	-17.269	1.00	50.65	A16S
ATOM	2484	C4	G	A	127	117.654	81.276	-17.765	1.00	50.65	A16S
ATOM	2485	N3	G	A	127	117.486	80.876	-19.043	1.00	50.65	A16S
ATOM	2486	C2	G	A	127	117.791	79.594	-19.200	1.00	50.65	A16S
ATOM	2487	N2	G	A	127	117.692	79.019	-20.404	1.00	50.65	A16S
ATOM	2488	N1	G	A	127	118.214	78.776	-18.185	1.00	50.65	A16S
ATOM	2489	C6	G	A	127	118.385	79.169	-16.862	1.00	50.65	A16S
ATOM	2490	O6	G	A	127	118.749	78.343	-16.014	1.00	50.65	A16S
ATOM	2491	C5	G	A	127	118.082	80.540	-16.681	1.00	50.65	A16S
ATOM	2492	N7	G	A	127	118.138	81.327	-15.538	1.00	50.65	A16S
ATOM	2493	C8	G	A	127	117.731	82.501	-15.935	1.00	50.65	A16S
ATOM	2494	C2*	G	A	127	115.414	83.272	-18.520	1.00	44.86	A16S
ATOM	2495	O2*	G	A	127	115.198	83.876	-19.783	1.00	44.86	A16S
ATOM	2496	C3*	G	A	127	114.528	83.779	-17.384	1.00	44.86	A16S
ATOM	2497	O3*	G	A	127	113.178	84.055	-17.764	1.00	44.86	A16S
ATOM	2498	P	G	A	128	112.028	82.950	-17.508	1.00	40.40	A16S
ATOM	2499	O1P	G	A	128	110.738	83.602	-17.870	1.00	53.23	A16S
ATOM	2500	O2P	G	A	128	112.203	82.358	-16.142	1.00	53.23	A16S
ATOM	2501	O5*	G	A	128	112.331	81.836	-18.606	1.00	40.40	A16S
ATOM	2502	C5*	G	A	128	112.423	82.198	-19.987	1.00	40.40	A16S
ATOM	2503	C4*	G	A	128	112.810	81.004	-20.805	1.00	40.40	A16S
ATOM	2504	O4*	G	A	128	114.161	80.598	-20.476	1.00	40.40	A16S
ATOM	2505	C1*	G	A	128	114.282	79.187	-20.607	1.00	40.40	A16S
ATOM	2506	N9	G	A	128	114.692	78.631	-19.320	1.00	53.23	A16S
ATOM	2507	C4	G	A	128	115.082	77.332	-19.072	1.00	53.23	A16S
ATOM	2508	N3	G	A	128	115.168	76.341	-19.982	1.00	53.23	A16S
ATOM	2509	C2	G	A	128	115.566	75.203	-19.434	1.00	53.23	A16S
ATOM	2510	N2	G	A	128	115.723	74.098	-20.200	1.00	53.23	A16S
ATOM	2511	N1	G	A	128	115.843	75.059	-18.100	1.00	53.23	A16S
ATOM	2512	C6	G	A	128	115.756	76.071	-17.152	1.00	53.23	A16S
ATOM	2513	O6	G	A	128	116.019	75.836	-15.971	1.00	53.23	A16S
ATOM	2514	C5	G	A	128	115.347	77.283	-17.723	1.00	53.23	A16S
ATOM	2515	N7	G	A	128	115.147	78.523	-17.132	1.00	53.23	A16S
ATOM	2516	C8	G	A	128	114.757	79.291	-18.113	1.00	53.23	A16S
ATOM	2517	C2*	G	A	128	112.922	78.653	-21.049	1.00	40.40	A16S
ATOM	2518	O2*	G	A	128	112.886	78.540	-22.457	1.00	40.40	A16S
ATOM	2519	C3*	G	A	128	111.997	79.751	-20.562	1.00	40.40	A16S
ATOM	2520	O3*	G	A	128	110.789	79.745	-21.271	1.00	40.40	A16S
ATOM	2521	P	U	A	129	109.546	78.953	-20.661	1.00	51.41	A16S
ATOM	2522	O1P	U	A	129	108.415	79.094	-21.606	1.00	53.66	A16S
ATOM	2523	O2P	U	A	129	109.386	79.371	-19.236	1.00	53.66	A16S
ATOM	2524	O5*	U	A	129	110.014	77.436	-20.678	1.00	51.41	A16S
ATOM	2525	C5*	U	A	129	110.141	76.707	-21.907	1.00	51.41	A16S
ATOM	2526	C4*	U	A	129	110.356	75.244	-21.604	1.00	51.41	A16S
ATOM	2527	O4*	U	A	129	111.604	75.076	-20.881	1.00	51.41	A16S
ATOM	2528	C1*	U	A	129	111.474	74.019	-19.954	1.00	51.41	A16S
ATOM	2529	N1	U	A	129	111.885	74.484	-18.621	1.00	53.66	A16S
ATOM	2530	C6	U	A	129	111.511	75.703	-18.131	1.00	53.66	A16S
ATOM	2531	C2	U	A	129	112.674	73.633	-17.871	1.00	53.66	A16S
ATOM	2532	O2	U	A	129	113.040	72.530	-18.274	1.00	53.66	A16S
ATOM	2533	N3	U	A	129	113.027	74.109	-16.634	1.00	53.66	A16S
ATOM	2534	C4	U	A	129	112.684	75.317	-16.085	1.00	53.66	A16S

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ATOM	2535	O4	U	A	129	113.088	75.606	-14.955	1.00	53.66	A16S
ATOM	2536	C5	U	A	129	111.873	76.137	-16.922	1.00	53.66	A16S
ATOM	2537	C2*	U	A	129	110.049	73.473	-20.036	1.00	51.41	A16S
ATOM	2538	O2*	U	A	129	110.064	72.313	-20.845	1.00	51.41	A16S
ATOM	2539	C3*	U	A	129	109.301	74.625	-20.698	1.00	51.41	A16S
ATOM	2540	O3*	U	A	129	108.206	74.153	-21.476	1.00	51.41	A16S
ATOM	2541	P	G	A	129A	106.714	74.193	-20.881	1.00	53.39	A16S
ATOM	2542	O1P	G	A	129A	106.220	75.587	-21.001	1.00	59.41	A16S
ATOM	2543	O2P	G	A	129A	106.732	73.523	-19.550	1.00	59.41	A16S
ATOM	2544	O5*	G	A	129A	105.868	73.319	-21.910	1.00	53.39	A16S
ATOM	2545	C5*	G	A	129A	106.464	72.212	-22.614	1.00	53.39	A16S
ATOM	2546	C4*	G	A	129A	106.451	72.489	-24.091	1.00	53.39	A16S
ATOM	2547	O4*	G	A	129A	105.083	72.735	-24.458	1.00	53.39	A16S
ATOM	2548	C1*	G	A	129A	105.034	73.682	-25.496	1.00	53.39	A16S
ATOM	2549	N9	G	A	129A	103.872	74.550	-25.300	1.00	59.41	A16S
ATOM	2550	C4	G	A	129A	102.804	74.691	-26.168	1.00	59.41	A16S
ATOM	2551	N3	G	A	129A	102.637	74.035	-27.338	1.00	59.41	A16S
ATOM	2552	C2	G	A	129A	101.514	74.382	-27.945	1.00	59.41	A16S
ATOM	2553	N2	G	A	129A	101.178	73.815	-29.120	1.00	59.41	A16S
ATOM	2554	N1	G	A	129A	100.632	75.304	-27.449	1.00	59.41	A16S
ATOM	2555	C6	G	A	129A	100.781	75.991	-26.248	1.00	59.41	A16S
ATOM	2556	O6	G	A	129A	99.919	76.806	-25.894	1.00	59.41	A16S
ATOM	2557	C5	G	A	129A	101.976	75.622	-25.581	1.00	59.41	A16S
ATOM	2558	N7	G	A	129A	102.497	76.052	-24.366	1.00	59.41	A16S
ATOM	2559	C8	G	A	129A	103.617	75.389	-24.239	1.00	59.41	A16S
ATOM	2560	C2*	G	A	129A	106.401	74.369	-25.624	1.00	53.39	A16S
ATOM	2561	O2*	G	A	129A	106.912	74.215	-26.930	1.00	53.39	A16S
ATOM	2562	C3*	G	A	129A	107.211	73.749	-24.479	1.00	53.39	A16S
ATOM	2563	O3*	G	A	129A	108.613	73.456	-24.740	1.00	53.39	A16S
ATOM	2564	P	A	A	130	109.050	72.570	-26.033	1.00	46.38	A16S
ATOM	2565	O1P	A	A	130	110.088	73.299	-26.793	1.00	61.62	A16S
ATOM	2566	O2P	A	A	130	107.840	72.066	-26.732	1.00	61.62	A16S
ATOM	2567	O5*	A	A	130	109.741	71.270	-25.440	1.00	46.38	A16S
ATOM	2568	C5*	A	A	130	109.452	69.990	-26.027	1.00	46.38	A16S
ATOM	2569	C4*	A	A	130	109.718	68.882	-25.043	1.00	46.38	A16S
ATOM	2570	O4*	A	A	130	111.133	68.869	-24.752	1.00	46.38	A16S
ATOM	2571	C1*	A	A	130	111.354	69.064	-23.372	1.00	46.38	A16S
ATOM	2572	N9	A	A	130	112.491	69.981	-23.267	1.00	61.62	A16S
ATOM	2573	C4	A	A	130	113.757	69.689	-22.816	1.00	61.62	A16S
ATOM	2574	N3	A	A	130	114.206	68.519	-22.334	1.00	61.62	A16S
ATOM	2575	C2	A	A	130	115.496	68.603	-22.019	1.00	61.62	A16S
ATOM	2576	N1	A	A	130	116.326	69.645	-22.115	1.00	61.62	A16S
ATOM	2577	C6	A	A	130	115.839	70.810	-22.592	1.00	61.62	A16S
ATOM	2578	N6	A	A	130	116.654	71.865	-22.669	1.00	61.62	A16S
ATOM	2579	C5	A	A	130	114.489	70.848	-22.974	1.00	61.62	A16S
ATOM	2580	N7	A	A	130	113.699	71.862	-23.500	1.00	61.62	A16S
ATOM	2581	C8	A	A	130	112.525	71.302	-23.646	1.00	61.62	A16S
ATOM	2582	C2*	A	A	130	110.039	69.574	-22.779	1.00	46.38	A16S
ATOM	2583	O2*	A	A	130	109.943	69.204	-21.424	1.00	46.38	A16S
ATOM	2584	C3*	A	A	130	108.996	68.932	-23.703	1.00	46.38	A16S
ATOM	2585	O3*	A	A	130	108.713	67.554	-23.421	1.00	46.38	A16S
ATOM	2586	P	C	A	131	107.701	67.125	-22.238	1.00	58.15	A16S
ATOM	2587	O1P	C	A	131	107.289	65.737	-22.601	1.00	47.17	A16S
ATOM	2588	O2P	C	A	131	106.653	68.146	-21.904	1.00	47.17	A16S
ATOM	2589	O5*	C	A	131	108.669	67.033	-20.988	1.00	58.15	A16S
ATOM	2590	C5*	C	A	131	108.155	66.942	-19.680	1.00	58.15	A16S
ATOM	2591	C4*	C	A	131	109.144	66.230	-18.822	1.00	58.15	A16S
ATOM	2592	O4*	C	A	131	110.377	66.983	-18.774	1.00	58.15	A16S
ATOM	2593	C1*	C	A	131	110.930	66.900	-17.476	1.00	58.15	A16S
ATOM	2594	N1	C	A	131	110.953	68.261	-16.897	1.00	47.17	A16S
ATOM	2595	C6	C	A	131	110.392	69.312	-17.562	1.00	47.17	A16S
ATOM	2596	C2	C	A	131	111.549	68.462	-15.632	1.00	47.17	A16S
ATOM	2597	O2	C	A	131	112.090	67.507	-15.055	1.00	47.17	A16S
ATOM	2598	N3	C	A	131	111.525	69.692	-15.078	1.00	47.17	A16S
ATOM	2599	N4	C	A	131	110.963	70.706	-15.731	1.00	47.17	A16S
ATOM	2600	N4	C	A	131	110.965	71.907	-15.139	1.00	47.17	A16S
ATOM	2601	C5	C	A	131	110.373	70.539	-17.022	1.00	47.17	A16S
ATOM	2602	C2*	C	A	131	110.055	65.932	-16.672	1.00	58.15	A16S
ATOM	2603	O2*	C	A	131	110.565	64.624	-16.819	1.00	58.15	A16S
ATOM	2604	C3*	C	A	131	108.721	66.072	-17.382	1.00	58.15	A16S
ATOM	2605	O3*	C	A	131	107.919	64.916	-17.281	1.00	58.15	A16S
ATOM	2606	P	C	A	132	106.918	64.746	-16.048	1.00	53.39	A16S
ATOM	2607	O1P	C	A	132	106.075	63.607	-16.493	1.00	49.64	A16S
ATOM	2608	O2P	C	A	132	106.285	66.038	-15.682	1.00	49.64	A16S
ATOM	2609	O5*	C	A	132	107.867	64.283	-14.859	1.00	53.39	A16S
ATOM	2610	C5*	C	A	132	108.577	63.038	-14.950	1.00	53.39	A16S
ATOM	2611	C4*	C	A	132	109.504	62.880	-13.778	1.00	53.39	A16S

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ATOM	2612	O4*	C	A	132	110.505	63.924	-13.834	1.00	53.39	A16S
ATOM	2613	C1*	C	A	132	110.880	64.289	-12.519	1.00	53.39	A16S
ATOM	2614	N1	C	A	132	110.607	65.716	-12.326	1.00	49.64	A16S
ATOM	2615	C6	C	A	132	109.665	66.366	-13.073	1.00	49.64	A16S
ATOM	2616	C2	C	A	132	111.314	66.399	-11.330	1.00	49.64	A16S
ATOM	2617	O2	C	A	132	112.189	65.796	-10.696	1.00	49.64	A16S
ATOM	2618	N3	C	A	132	111.030	67.690	-11.085	1.00	49.64	A16S
ATOM	2619	C4	C	A	132	110.090	68.309	-11.797	1.00	49.64	A16S
ATOM	2620	N4	C	A	132	109.826	69.579	-11.500	1.00	49.64	A16S
ATOM	2621	C5	C	A	132	109.375	67.650	-12.843	1.00	49.64	A16S
ATOM	2622	C2*	C	A	132	110.065	63.446	-11.538	1.00	53.39	A16S
ATOM	2623	O2*	C	A	132	110.830	62.350	-11.082	1.00	53.39	A16S
ATOM	2624	C3*	C	A	132	108.880	63.032	-12.398	1.00	53.39	A16S
ATOM	2625	O3*	C	A	132	108.283	61.835	-11.916	1.00	53.39	A16S
ATOM	2626	P	U	A	133	107.056	61.928	-10.887	1.00	49.36	A16S
ATOM	2627	O1P	U	A	133	106.569	60.555	-10.626	1.00	55.00	A16S
ATOM	2628	O2P	U	A	133	106.122	62.943	-11.448	1.00	55.00	A16S
ATOM	2629	O5*	U	A	133	107.699	62.503	-9.548	1.00	49.36	A16S
ATOM	2630	C5*	U	A	133	108.801	61.846	-8.929	1.00	49.36	A16S
ATOM	2631	C4*	U	A	133	109.352	62.700	-7.816	1.00	49.36	A16S
ATOM	2632	O4*	U	A	133	109.895	63.935	-8.350	1.00	49.36	A16S
ATOM	2633	C1*	U	A	133	109.703	64.989	-7.413	1.00	49.36	A16S
ATOM	2634	N1	U	A	133	108.975	66.089	-8.063	1.00	55.00	A16S
ATOM	2635	C6	U	A	133	108.339	65.920	-9.270	1.00	55.00	A16S
ATOM	2636	C2	U	A	133	108.942	67.307	-7.413	1.00	55.00	A16S
ATOM	2637	O2	U	A	133	109.495	67.512	-6.353	1.00	55.00	A16S
ATOM	2638	N3	U	A	133	108.233	68.283	-8.050	1.00	55.00	A16S
ATOM	2639	C4	U	A	133	107.567	68.179	-9.243	1.00	55.00	A16S
ATOM	2640	O4	U	A	133	106.908	69.138	-9.646	1.00	55.00	A16S
ATOM	2641	C5	U	A	133	107.656	66.897	-9.868	1.00	55.00	A16S
ATOM	2642	C2*	U	A	133	108.951	64.418	-6.209	1.00	49.36	A16S
ATOM	2643	O2*	U	A	133	109.840	64.137	-5.151	1.00	49.36	A16S
ATOM	2644	C3*	U	A	133	108.329	63.162	-6.799	1.00	49.36	A16S
ATOM	2645	O3*	U	A	133	108.098	62.188	-5.813	1.00	49.36	A16S
ATOM	2646	P	A	A	134	106.596	61.872	-5.384	1.00	58.30	A16S
ATOM	2647	O1P	A	A	134	105.950	61.211	-6.573	1.00	47.09	A16S
ATOM	2648	O2P	A	A	134	106.005	63.125	-4.818	1.00	47.09	A16S
ATOM	2649	O5*	A	A	134	106.779	60.854	-4.178	1.00	58.30	A16S
ATOM	2650	C5*	A	A	134	106.873	59.434	-4.382	1.00	58.30	A16S
ATOM	2651	C4*	A	A	134	107.479	58.803	-3.159	1.00	58.30	A16S
ATOM	2652	O4*	A	A	134	108.865	59.217	-3.108	1.00	58.30	A16S
ATOM	2653	C1*	A	A	134	109.219	59.545	-1.778	1.00	58.30	A16S
ATOM	2654	N9	A	A	134	109.648	60.948	-1.757	1.00	47.09	A16S
ATOM	2655	C4	A	A	134	110.255	61.601	-0.715	1.00	47.09	A16S
ATOM	2656	N3	A	A	134	110.571	61.095	0.487	1.00	47.09	A16S
ATOM	2657	C2	A	A	134	111.138	62.030	1.253	1.00	47.09	A16S
ATOM	2658	N1	A	A	134	111.408	63.313	0.968	1.00	47.09	A16S
ATOM	2659	C6	A	A	134	111.087	63.778	-0.260	1.00	47.09	A16S
ATOM	2660	N6	A	A	134	111.382	65.044	-0.563	1.00	47.09	A16S
ATOM	2661	C5	A	A	134	110.470	62.894	-1.154	1.00	47.09	A16S
ATOM	2662	N7	A	A	134	110.011	63.058	-2.447	1.00	47.09	A16S
ATOM	2663	C8	A	A	134	109.534	61.881	-2.761	1.00	47.09	A16S
ATOM	2664	C2*	A	A	134	108.022	59.218	-0.874	1.00	58.30	A16S
ATOM	2665	O2*	A	A	134	108.168	57.919	-0.343	1.00	58.30	A16S
ATOM	2666	C3*	A	A	134	106.860	59.291	-1.852	1.00	58.30	A16S
ATOM	2667	O3*	A	A	134	105.752	58.482	-1.449	1.00	58.30	A16S
ATOM	2668	P	C	A	135	104.354	59.178	-1.020	1.00	55.46	A16S
ATOM	2669	O1P	C	A	135	103.374	58.064	-0.794	1.00	65.93	A16S
ATOM	2670	O2P	C	A	135	104.016	60.255	-1.982	1.00	65.93	A16S
ATOM	2671	O5*	C	A	135	104.679	59.877	0.375	1.00	55.46	A16S
ATOM	2672	C5*	C	A	135	104.963	59.077	1.525	1.00	55.46	A16S
ATOM	2673	C4*	C	A	135	105.665	59.887	2.578	1.00	55.46	A16S
ATOM	2674	O4*	C	A	135	106.951	60.333	2.083	1.00	55.46	A16S
ATOM	2675	C1*	C	A	135	107.278	61.575	2.683	1.00	55.46	A16S
ATOM	2676	N1	C	A	135	107.431	62.598	1.634	1.00	65.93	A16S
ATOM	2677	C6	C	A	135	106.909	62.425	0.380	1.00	65.93	A16S
ATOM	2678	C2	C	A	135	108.102	63.772	1.960	1.00	65.93	A16S
ATOM	2679	O2	C	A	135	108.592	63.878	3.091	1.00	65.93	A16S
ATOM	2680	N3	C	A	135	108.202	64.759	1.040	1.00	65.93	A16S
ATOM	2681	C4	C	A	135	107.670	64.596	-0.175	1.00	65.93	A16S
ATOM	2682	N4	C	A	135	107.776	65.609	-1.052	1.00	65.93	A16S
ATOM	2683	C5	C	A	135	107.002	63.391	-0.546	1.00	65.93	A16S
ATOM	2684	C2*	C	A	135	106.133	61.949	3.623	1.00	55.46	A16S
ATOM	2685	O2*	C	A	135	106.416	61.513	4.934	1.00	55.46	A16S
ATOM	2686	C3*	C	A	135	104.983	61.166	3.023	1.00	55.46	A16S
ATOM	2687	O3*	C	A	135	103.971	60.939	3.976	1.00	55.46	A16S
ATOM	2688	P	C	A	136	102.516	61.569	3.735	1.00	58.06	A16S

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ATOM	2689	O1P	C	A	136	101.641	61.052	4.838	1.00	43.43	A16S
ATOM	2690	O2P	C	A	136	102.135	61.331	2.301	1.00	43.43	A16S
ATOM	2691	O5*	C	A	136	102.742	63.132	3.929	1.00	58.06	A16S
ATOM	2692	C5*	C	A	136	103.331	63.646	5.131	1.00	58.06	A16S
ATOM	2693	C4*	C	A	136	103.325	65.152	5.096	1.00	58.06	A16S
ATOM	2694	O4*	C	A	136	104.311	65.618	4.142	1.00	58.06	A16S
ATOM	2695	C1*	C	A	136	103.821	66.768	3.481	1.00	58.06	A16S
ATOM	2696	N1	C	A	136	103.699	66.471	2.053	1.00	43.43	A16S
ATOM	2697	C6	C	A	136	103.805	65.197	1.586	1.00	43.43	A16S
ATOM	2698	C2	C	A	136	103.463	67.526	1.169	1.00	43.43	A16S
ATOM	2699	O2	C	A	136	103.395	68.693	1.622	1.00	43.43	A16S
ATOM	2700	N3	C	A	136	103.323	67.263	-0.156	1.00	43.43	A16S
ATOM	2701	C4	C	A	136	103.427	66.012	-0.599	1.00	43.43	A16S
ATOM	2702	N4	C	A	136	103.278	65.797	-1.909	1.00	43.43	A16S
ATOM	2703	C5	C	A	136	103.685	64.925	0.281	1.00	43.43	A16S
ATOM	2704	C2*	C	A	136	102.463	67.119	4.082	1.00	58.06	A16S
ATOM	2705	O2*	C	A	136	102.624	68.088	5.097	1.00	58.06	A16S
ATOM	2706	C3*	C	A	136	102.018	65.774	4.625	1.00	58.06	A16S
ATOM	2707	O3*	C	A	136	101.060	65.912	5.662	1.00	58.06	A16S
ATOM	2708	P	C	A	137	99.527	65.539	5.365	1.00	63.59	A16S
ATOM	2709	O1P	C	A	137	98.877	65.244	6.672	1.00	54.14	A16S
ATOM	2710	O2P	C	A	137	99.487	64.531	4.262	1.00	54.14	A16S
ATOM	2711	O5*	C	A	137	98.923	66.876	4.770	1.00	63.59	A16S
ATOM	2712	C5*	C	A	137	99.143	68.118	5.424	1.00	63.59	A16S
ATOM	2713	C4*	C	A	137	98.799	69.239	4.491	1.00	63.59	A16S
ATOM	2714	O4*	C	A	137	99.783	69.318	3.431	1.00	63.59	A16S
ATOM	2715	C1*	C	A	137	99.156	69.741	2.232	1.00	63.59	A16S
ATOM	2716	N1	C	A	137	99.382	68.735	1.171	1.00	54.14	A16S
ATOM	2717	C6	C	A	137	100.085	67.586	1.405	1.00	54.14	A16S
ATOM	2718	C2	C	A	137	98.859	68.992	-0.107	1.00	54.14	A16S
ATOM	2719	O2	C	A	137	98.201	70.030	-0.284	1.00	54.14	A16S
ATOM	2720	N3	C	A	137	99.076	68.108	-1.110	1.00	54.14	A16S
ATOM	2721	C4	C	A	137	99.771	66.998	-0.874	1.00	54.14	A16S
ATOM	2722	N4	C	A	137	99.961	66.155	-1.895	1.00	54.14	A16S
ATOM	2723	C5	C	A	137	100.303	66.699	0.422	1.00	54.14	A16S
ATOM	2724	C2*	C	A	137	97.675	69.948	2.534	1.00	63.59	A16S
ATOM	2725	O2*	C	A	137	97.438	71.313	2.816	1.00	63.59	A16S
ATOM	2726	C3*	C	A	137	97.494	69.056	3.749	1.00	63.59	A16S
ATOM	2727	O3*	C	A	137	96.366	69.392	4.526	1.00	63.59	A16S
ATOM	2728	P	G	A	138	94.987	68.614	4.266	1.00	57.78	A16S
ATOM	2729	O1P	G	A	138	94.142	68.979	5.418	1.00	57.53	A16S
ATOM	2730	O2P	G	A	138	95.275	67.188	3.989	1.00	57.53	A16S
ATOM	2731	O5*	G	A	138	94.425	69.262	2.924	1.00	57.78	A16S
ATOM	2732	C5*	G	A	138	94.197	70.670	2.847	1.00	57.78	A16S
ATOM	2733	C4*	G	A	138	93.665	71.039	1.493	1.00	57.78	A16S
ATOM	2734	O4*	G	A	138	94.721	70.994	0.504	1.00	57.78	A16S
ATOM	2735	C1*	G	A	138	94.169	70.644	-0.759	1.00	57.78	A16S
ATOM	2736	N9	G	A	138	94.801	69.421	-1.235	1.00	57.53	A16S
ATOM	2737	C4	G	A	138	94.807	68.969	-2.531	1.00	57.53	A16S
ATOM	2738	N3	G	A	138	94.237	69.581	-3.581	1.00	57.53	A16S
ATOM	2739	C2	G	A	138	94.393	68.893	-4.691	1.00	57.53	A16S
ATOM	2740	N2	G	A	138	93.863	69.341	-5.828	1.00	57.53	A16S
ATOM	2741	N1	G	A	138	95.069	67.708	-4.772	1.00	57.53	A16S
ATOM	2742	C6	G	A	138	95.661	67.054	-3.700	1.00	57.53	A16S
ATOM	2743	O6	G	A	138	96.231	65.965	-3.873	1.00	57.53	A16S
ATOM	2744	C5	G	A	138	95.495	67.777	-2.500	1.00	57.53	A16S
ATOM	2745	N7	G	A	138	95.920	67.486	-1.211	1.00	57.53	A16S
ATOM	2746	C8	G	A	138	95.487	68.489	-0.494	1.00	57.53	A16S
ATOM	2747	C2*	G	A	138	92.674	70.401	-0.569	1.00	57.78	A16S
ATOM	2748	O2*	G	A	138	91.943	71.533	-1.003	1.00	57.78	A16S
ATOM	2749	C3*	G	A	138	92.603	70.116	0.928	1.00	57.78	A16S
ATOM	2750	O3*	G	A	138	91.314	70.322	1.479	1.00	57.78	A16S
ATOM	2751	P	G	A	139	90.294	69.088	1.553	1.00	65.54	A16S
ATOM	2752	O1P	G	A	139	89.122	69.601	2.307	1.00	65.44	A16S
ATOM	2753	O2P	G	A	139	91.022	67.889	2.052	1.00	65.44	A16S
ATOM	2754	O5*	G	A	139	89.910	68.845	0.026	1.00	65.54	A16S
ATOM	2755	C5*	G	A	139	89.318	69.903	-0.729	1.00	65.54	A16S
ATOM	2756	C4*	G	A	139	89.208	69.542	-2.189	1.00	65.54	A16S
ATOM	2757	O4*	G	A	139	90.530	69.424	-2.778	1.00	65.54	A16S
ATOM	2758	C1*	G	A	139	90.481	68.525	-3.883	1.00	65.54	A16S
ATOM	2759	N9	G	A	139	91.396	67.404	-3.654	1.00	65.44	A16S
ATOM	2760	C4	G	A	139	91.798	66.472	-4.596	1.00	65.44	A16S
ATOM	2761	N3	G	A	139	91.438	66.449	-5.897	1.00	65.44	A16S
ATOM	2762	C2	G	A	139	91.961	65.412	-6.533	1.00	65.44	A16S
ATOM	2763	N2	G	A	139	91.699	65.222	-7.832	1.00	65.44	A16S
ATOM	2764	N1	G	A	139	92.776	64.480	-5.944	1.00	65.44	A16S
ATOM	2765	C6	G	A	139	93.166	64.487	-4.612	1.00	65.44	A16S

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ATOM	2766	O6	G	A 139	93.911	63.602	-4.185	1.00	65.44	A16S
ATOM	2767	C5	G	A 139	92.607	65.587	-3.912	1.00	65.44	A16S
ATOM	2768	N7	G	A 139	92.731	65.959	-2.579	1.00	65.44	A16S
ATOM	2769	C8	G	A 139	92.003	67.041	-2.472	1.00	65.44	A16S
ATOM	2770	C2*	G	A 139	89.041	68.029	-3.998	1.00	65.54	A16S
ATOM	2771	O2*	G	A 139	88.386	68.805	-4.985	1.00	65.54	A16S
ATOM	2772	C3*	G	A 139	88.524	68.240	-2.571	1.00	65.54	A16S
ATOM	2773	O3*	G	A 139	87.089	68.274	-2.478	1.00	65.54	A16S
ATOM	2774	P	A	A 140	86.268	66.902	-2.177	1.00	85.68	A16S
ATOM	2775	O1P	A	A 140	84.829	67.278	-2.125	1.00	62.11	A16S
ATOM	2776	O2P	A	A 140	86.880	66.186	-1.014	1.00	62.11	A16S
ATOM	2777	O5*	A	A 140	86.471	66.033	-3.502	1.00	85.68	A16S
ATOM	2778	C5*	A	A 140	86.002	66.535	-4.767	1.00	85.68	A16S
ATOM	2779	C4*	A	A 140	86.161	65.501	-5.847	1.00	85.68	A16S
ATOM	2780	O4*	A	A 140	87.557	65.351	-6.215	1.00	85.68	A16S
ATOM	2781	C1*	A	A 140	87.811	64.003	-6.597	1.00	85.68	A16S
ATOM	2782	N9	A	A 140	88.814	63.436	-5.692	1.00	62.11	A16S
ATOM	2783	C4	A	A 140	89.635	62.370	-5.964	1.00	62.11	A16S
ATOM	2784	N3	A	A 140	89.666	61.634	-7.086	1.00	62.11	A16S
ATOM	2785	C2	A	A 140	90.617	60.696	-7.005	1.00	62.11	A16S
ATOM	2786	N1	A	A 140	91.473	60.433	-6.000	1.00	62.11	A16S
ATOM	2787	C6	A	A 140	91.407	61.193	-4.882	1.00	62.11	A16S
ATOM	2788	N6	A	A 140	92.252	60.935	-3.881	1.00	62.11	A16S
ATOM	2789	C5	A	A 140	90.442	62.218	-4.845	1.00	62.11	A16S
ATOM	2790	N7	A	A 140	90.119	63.155	-3.876	1.00	62.11	A16S
ATOM	2791	C8	A	A 140	89.146	63.848	-4.421	1.00	62.11	A16S
ATOM	2792	C2*	A	A 140	86.491	63.249	-6.503	1.00	85.68	A16S
ATOM	2793	O2*	A	A 140	85.885	63.218	-7.781	1.00	85.68	A16S
ATOM	2794	C3*	A	A 140	85.736	64.097	-5.485	1.00	85.68	A16S
ATOM	2795	O3*	A	A 140	84.340	63.903	-5.497	1.00	85.68	A16S
ATOM	2796	P	A	A 141	83.690	62.912	-4.412	1.00	93.08	A16S
ATOM	2797	O1P	A	A 141	82.217	63.082	-4.548	1.00	50.62	A16S
ATOM	2798	O2P	A	A 141	84.346	63.143	-3.083	1.00	50.62	A16S
ATOM	2799	O5*	A	A 141	84.108	61.457	-4.925	1.00	93.08	A16S
ATOM	2800	C5*	A	A 141	83.722	61.018	-6.239	1.00	93.08	A16S
ATOM	2801	C4*	A	A 141	84.539	59.825	-6.689	1.00	93.08	A16S
ATOM	2802	O4*	A	A 141	85.946	60.169	-6.778	1.00	93.08	A16S
ATOM	2803	C1*	A	A 141	86.730	59.002	-6.581	1.00	93.08	A16S
ATOM	2804	N9	A	A 141	87.580	59.174	-5.402	1.00	50.62	A16S
ATOM	2805	C4	A	A 141	88.682	58.402	-5.095	1.00	50.62	A16S
ATOM	2806	N3	A	A 141	89.195	57.382	-5.813	1.00	50.62	A16S
ATOM	2807	C2	A	A 141	90.266	56.873	-5.204	1.00	50.62	A16S
ATOM	2808	N1	A	A 141	90.836	57.234	-4.044	1.00	50.62	A16S
ATOM	2809	C6	A	A 141	90.291	58.258	-3.346	1.00	50.62	A16S
ATOM	2810	N6	A	A 141	90.845	58.614	-2.183	1.00	50.62	A16S
ATOM	2811	C5	A	A 141	89.158	58.890	-3.889	1.00	50.62	A16S
ATOM	2812	N7	A	A 141	88.380	59.953	-3.447	1.00	50.62	A16S
ATOM	2813	C8	A	A 141	87.463	60.084	-4.377	1.00	50.62	A16S
ATOM	2814	C2*	A	A 141	85.769	57.844	-6.361	1.00	93.08	A16S
ATOM	2815	O2*	A	A 141	85.528	57.208	-7.605	1.00	93.08	A16S
ATOM	2816	C3*	A	A 141	84.544	58.572	-5.833	1.00	93.08	A16S
ATOM	2817	O3*	A	A 141	83.402	57.763	-5.985	1.00	93.08	A16S
ATOM	2818	P	G	A 142	82.989	56.763	-4.796	1.00	79.82	A16S
ATOM	2819	O1P	G	A 142	81.701	56.159	-5.249	1.00	54.08	A16S
ATOM	2820	O2P	G	A 142	83.053	57.504	-3.505	1.00	54.08	A16S
ATOM	2821	O5*	G	A 142	84.132	55.644	-4.770	1.00	79.82	A16S
ATOM	2822	C5*	G	A 142	84.273	54.734	-5.874	1.00	79.82	A16S
ATOM	2823	C4*	G	A 142	85.519	53.877	-5.750	1.00	79.82	A16S
ATOM	2824	O4*	G	A 142	86.717	54.692	-5.660	1.00	79.82	A16S
ATOM	2825	C1*	G	A 142	87.738	53.959	-5.005	1.00	79.82	A16S
ATOM	2826	N9	G	A 142	88.139	54.655	-3.786	1.00	54.08	A16S
ATOM	2827	C4	G	A 142	89.236	54.349	-3.016	1.00	54.08	A16S
ATOM	2828	N3	G	A 142	90.124	53.359	-3.258	1.00	54.08	A16S
ATOM	2829	C2	G	A 142	91.060	53.292	-2.323	1.00	54.08	A16S
ATOM	2830	N2	G	A 142	92.000	52.340	-2.387	1.00	54.08	A16S
ATOM	2831	N1	G	A 142	91.134	54.145	-1.253	1.00	54.08	A16S
ATOM	2832	C6	G	A 142	90.233	55.176	-0.986	1.00	54.08	A16S
ATOM	2833	O6	G	A 142	90.391	55.892	0.015	1.00	54.08	A16S
ATOM	2834	C5	G	A 142	89.211	55.245	-1.970	1.00	54.08	A16S
ATOM	2835	N7	G	A 142	88.125	56.102	-2.079	1.00	54.08	A16S
ATOM	2836	C8	G	A 142	87.518	55.715	-3.170	1.00	54.08	A16S
ATOM	2837	C2*	G	A 142	87.158	52.596	-4.660	1.00	79.82	A16S
ATOM	2838	O2*	G	A 142	87.466	51.738	-5.735	1.00	79.82	A16S
ATOM	2839	C3*	G	A 142	85.666	52.906	-4.593	1.00	79.82	A16S
ATOM	2840	O3*	G	A 142	84.894	51.724	-4.766	1.00	79.82	A16S
ATOM	2841	P	A	A 143	84.443	50.870	-3.474	1.00	86.49	A16S
ATOM	2842	O1P	A	A 143	83.344	50.009	-3.972	1.00	69.90	A16S

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ATOM	2843	O2P	A	A	143	84.224	51.744	-2.286	1.00	69.90	A16S
ATOM	2844	O5*	A	A	143	85.694	49.951	-3.139	1.00	86.49	A16S
ATOM	2845	C5*	A	A	143	86.153	48.968	-4.073	1.00	86.49	A16S
ATOM	2846	C4*	A	A	143	87.432	48.355	-3.576	1.00	86.49	A16S
ATOM	2847	O4*	A	A	143	88.423	49.405	-3.441	1.00	86.49	A16S
ATOM	2848	C1*	A	A	143	89.203	49.187	-2.282	1.00	86.49	A16S
ATOM	2849	N9	A	A	143	88.953	50.295	-1.361	1.00	69.90	A16S
ATOM	2850	C4	A	A	143	89.742	50.657	-0.298	1.00	69.90	A16S
ATOM	2851	N3	A	A	143	90.885	50.068	0.107	1.00	69.90	A16S
ATOM	2852	C2	A	A	143	91.378	50.688	1.190	1.00	69.90	A16S
ATOM	2853	N1	A	A	143	90.890	51.753	1.860	1.00	69.90	A16S
ATOM	2854	C6	A	A	143	89.738	52.322	1.421	1.00	69.90	A16S
ATOM	2855	N6	A	A	143	89.254	53.383	2.082	1.00	69.90	A16S
ATOM	2856	C5	A	A	143	89.116	51.754	0.281	1.00	69.90	A16S
ATOM	2857	N7	A	A	143	87.953	52.074	-0.406	1.00	69.90	A16S
ATOM	2858	C8	A	A	143	87.899	51.181	-1.365	1.00	69.90	A16S
ATOM	2859	C2*	A	A	143	88.779	47.842	-1.695	1.00	86.49	A16S
ATOM	2860	O2*	A	A	143	89.593	46.818	-2.235	1.00	86.49	A16S
ATOM	2861	C3*	A	A	143	87.345	47.739	-2.190	1.00	86.49	A16S
ATOM	2862	O3*	A	A	143	86.873	46.399	-2.231	1.00	86.49	A16S
ATOM	2863	P	G	A	144	86.025	45.823	-0.995	1.00	104.43	A16S
ATOM	2864	O1P	G	A	144	85.024	46.853	-0.602	1.00	88.45	A16S
ATOM	2865	O2P	G	A	144	86.977	45.289	0.020	1.00	88.45	A16S
ATOM	2866	O5*	G	A	144	85.227	44.609	-1.631	1.00	104.43	A16S
ATOM	2867	C5*	G	A	144	83.848	44.746	-1.997	1.00	104.43	A16S
ATOM	2868	C4*	G	A	144	83.548	43.856	-3.168	1.00	104.43	A16S
ATOM	2869	O4*	G	A	144	83.989	44.492	-4.395	1.00	104.43	A16S
ATOM	2870	C1*	G	A	144	84.522	43.515	-5.277	1.00	104.43	A16S
ATOM	2871	N9	G	A	144	85.936	43.819	-5.489	1.00	88.45	A16S
ATOM	2872	C4	G	A	144	86.787	43.183	-6.364	1.00	88.45	A16S
ATOM	2873	N3	G	A	144	86.450	42.190	-7.213	1.00	88.45	A16S
ATOM	2874	C2	G	A	144	87.491	41.746	-7.891	1.00	88.45	A16S
ATOM	2875	N2	G	A	144	87.332	40.745	-8.760	1.00	88.45	A16S
ATOM	2876	N1	G	A	144	88.764	42.245	-7.757	1.00	88.45	A16S
ATOM	2877	C6	G	A	144	89.139	43.266	-6.886	1.00	88.45	A16S
ATOM	2878	O6	G	A	144	90.327	43.627	-6.822	1.00	88.45	A16S
ATOM	2879	C5	G	A	144	88.027	43.752	-6.150	1.00	88.45	A16S
ATOM	2880	N7	G	A	144	87.952	44.752	-5.188	1.00	88.45	A16S
ATOM	2881	C8	G	A	144	86.695	44.763	-4.830	1.00	88.45	A16S
ATOM	2882	C2*	G	A	144	84.346	42.145	-4.611	1.00	104.43	A16S
ATOM	2883	O2*	G	A	144	83.176	41.491	-5.072	1.00	104.43	A16S
ATOM	2884	C3*	G	A	144	84.289	42.531	-3.139	1.00	104.43	A16S
ATOM	2885	O3*	G	A	144	83.675	41.568	-2.295	1.00	104.43	A16S
ATOM	2886	P	G	A	145	84.599	40.564	-1.437	1.00	87.69	A16S
ATOM	2887	O1P	G	A	145	83.671	39.841	-0.525	1.00	84.13	A16S
ATOM	2888	O2P	G	A	145	85.760	41.319	-0.858	1.00	84.13	A16S
ATOM	2889	O5*	G	A	145	85.128	39.529	-2.536	1.00	87.69	A16S
ATOM	2890	C5*	G	A	145	84.186	38.772	-3.328	1.00	87.69	A16S
ATOM	2891	C4*	G	A	145	84.885	37.971	-4.403	1.00	87.69	A16S
ATOM	2892	O4*	G	A	145	85.393	38.840	-5.448	1.00	87.69	A16S
ATOM	2893	C1*	G	A	145	86.542	38.248	-6.043	1.00	87.69	A16S
ATOM	2894	N9	G	A	145	87.697	39.122	-5.827	1.00	84.13	A16S
ATOM	2895	C4	G	A	145	88.897	39.091	-6.509	1.00	84.13	A16S
ATOM	2896	N3	G	A	145	89.197	38.294	-7.554	1.00	84.13	A16S
ATOM	2897	C2	G	A	145	90.440	38.468	-7.963	1.00	84.13	A16S
ATOM	2898	N2	G	A	145	90.903	37.764	-8.997	1.00	84.13	A16S
ATOM	2899	N1	G	A	145	91.322	39.349	-7.386	1.00	84.13	A16S
ATOM	2900	C6	G	A	145	91.036	40.179	-6.305	1.00	84.13	A16S
ATOM	2901	O6	G	A	145	91.914	40.932	-5.841	1.00	84.13	A16S
ATOM	2902	C5	G	A	145	89.704	40.012	-5.869	1.00	84.13	A16S
ATOM	2903	N7	G	A	145	89.016	40.644	-4.845	1.00	84.13	A16S
ATOM	2904	C8	G	A	145	87.830	40.095	-4.864	1.00	84.13	A16S
ATOM	2905	C2*	G	A	145	86.768	36.904	-5.344	1.00	87.69	A16S
ATOM	2906	O2*	G	A	145	86.153	35.846	-6.055	1.00	87.69	A16S
ATOM	2907	C3*	G	A	145	86.084	37.129	-4.007	1.00	87.69	A16S
ATOM	2908	O3*	G	A	145	85.744	35.886	-3.430	1.00	87.69	A16S
ATOM	2909	P	G	A	146	86.875	35.045	-2.656	1.00	91.12	A16S
ATOM	2910	O1P	G	A	146	86.196	33.866	-2.058	1.00	85.54	A16S
ATOM	2911	O2P	G	A	146	87.634	35.977	-1.776	1.00	85.54	A16S
ATOM	2912	O5*	G	A	146	87.847	34.524	-3.813	1.00	91.12	A16S
ATOM	2913	C5*	G	A	146	87.387	33.560	-4.782	1.00	91.12	A16S
ATOM	2914	C4*	G	A	146	88.435	33.309	-5.850	1.00	91.12	A16S
ATOM	2915	O4*	G	A	146	88.760	34.552	-6.527	1.00	91.12	A16S
ATOM	2916	C1*	G	A	146	90.110	34.512	-6.981	1.00	91.12	A16S
ATOM	2917	N9	G	A	146	90.872	35.595	-6.353	1.00	85.54	A16S
ATOM	2918	C4	G	A	146	92.153	35.986	-6.680	1.00	85.54	A16S
ATOM	2919	N3	G	A	146	92.923	35.449	-7.649	1.00	85.54	A16S

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ATOM	2920	C2	G	A	146	94.096	36.038	-7.728	1.00	85.54	A16S
ATOM	2921	N2	G	A	146	94.977	35.632	-8.647	1.00	85.54	A16S
ATOM	2922	N1	G	A	146	94.488	37.071	-6.914	1.00	85.54	A16S
ATOM	2923	C6	G	A	146	93.707	37.639	-5.910	1.00	85.54	A16S
ATOM	2924	O6	G	A	146	94.147	38.578	-5.232	1.00	85.54	A16S
ATOM	2925	C5	G	A	146	92.451	37.018	-5.819	1.00	85.54	A16S
ATOM	2926	N7	G	A	146	91.385	37.277	-4.970	1.00	85.54	A16S
ATOM	2927	C8	G	A	146	90.474	36.412	-5.321	1.00	85.54	A16S
ATOM	2928	C2*	G	A	146	90.678	33.147	-6.602	1.00	91.12	A16S
ATOM	2929	O2*	G	A	146	90.534	32.264	-7.698	1.00	91.12	A16S
ATOM	2930	C3*	G	A	146	89.791	32.761	-5.426	1.00	91.12	A16S
ATOM	2931	O3*	G	A	146	89.804	31.356	-5.259	1.00	91.12	A16S
ATOM	2932	P	G	A	147	90.975	30.675	-4.391	1.00	82.85	A16S
ATOM	2933	O1P	G	A	147	90.629	29.226	-4.295	1.00	70.68	A16S
ATOM	2934	O2P	G	A	147	91.173	31.478	-3.149	1.00	70.68	A16S
ATOM	2935	O5*	G	A	147	92.290	30.822	-5.285	1.00	82.85	A16S
ATOM	2936	C5*	G	A	147	92.417	30.103	-6.522	1.00	82.85	A16S
ATOM	2937	C4*	G	A	147	93.722	30.437	-7.211	1.00	82.85	A16S
ATOM	2938	O4*	G	A	147	93.765	31.855	-7.530	1.00	82.85	A16S
ATOM	2939	C1*	G	A	147	95.110	32.307	-7.516	1.00	82.85	A16S
ATOM	2940	N9	G	A	147	95.276	33.294	-6.453	1.00	70.68	A16S
ATOM	2941	C4	G	A	147	96.420	34.013	-6.193	1.00	70.68	A16S
ATOM	2942	N3	G	A	147	97.560	33.975	-6.918	1.00	70.68	A16S
ATOM	2943	C2	G	A	147	98.490	34.770	-6.418	1.00	70.68	A16S
ATOM	2944	N2	G	A	147	99.681	34.880	-7.040	1.00	70.68	A16S
ATOM	2945	N1	G	A	147	98.320	35.520	-5.277	1.00	70.68	A16S
ATOM	2946	C6	G	A	147	97.158	35.560	-4.509	1.00	70.68	A16S
ATOM	2947	O6	G	A	147	97.115	36.256	-3.482	1.00	70.68	A16S
ATOM	2948	C5	G	A	147	96.146	34.737	-5.056	1.00	70.68	A16S
ATOM	2949	N7	G	A	147	94.845	34.512	-4.631	1.00	70.68	A16S
ATOM	2950	C8	G	A	147	94.366	33.656	-5.491	1.00	70.68	A16S
ATOM	2951	C2*	G	A	147	95.985	31.098	-7.202	1.00	82.85	A16S
ATOM	2952	O2*	G	A	147	96.440	30.516	-8.405	1.00	82.85	A16S
ATOM	2953	C3*	G	A	147	95.012	30.207	-6.445	1.00	82.85	A16S
ATOM	2954	O3*	G	A	147	95.455	28.861	-6.429	1.00	82.85	A16S
ATOM	2955	P	G	A	148	96.441	28.369	-5.251	1.00	84.69	A16S
ATOM	2956	O1P	G	A	148	96.585	26.900	-5.395	1.00	72.15	A16S
ATOM	2957	O2P	G	A	148	95.984	28.942	-3.950	1.00	72.15	A16S
ATOM	2958	O5*	G	A	148	97.854	29.017	-5.612	1.00	84.69	A16S
ATOM	2959	C5*	G	A	148	98.515	28.702	-6.859	1.00	84.69	A16S
ATOM	2960	C4*	G	A	148	99.789	29.510	-7.012	1.00	84.69	A16S
ATOM	2961	O4*	G	A	148	99.474	30.924	-6.982	1.00	84.69	A16S
ATOM	2962	C1*	G	A	148	100.535	31.637	-6.376	1.00	84.69	A16S
ATOM	2963	N9	G	A	148	100.025	32.287	-5.177	1.00	72.15	A16S
ATOM	2964	C4	G	A	148	100.668	33.237	-4.415	1.00	72.15	A16S
ATOM	2965	N3	G	A	148	101.889	33.769	-4.662	1.00	72.15	A16S
ATOM	2966	C2	G	A	148	102.234	34.665	-3.747	1.00	72.15	A16S
ATOM	2967	N2	G	A	148	103.406	35.314	-3.847	1.00	72.15	A16S
ATOM	2968	N1	G	A	148	101.451	34.993	-2.669	1.00	72.15	A16S
ATOM	2969	C6	G	A	148	100.197	34.449	-2.392	1.00	72.15	A16S
ATOM	2970	O6	G	A	148	99.571	34.802	-1.375	1.00	72.15	A16S
ATOM	2971	C5	G	A	148	99.809	33.509	-3.377	1.00	72.15	A16S
ATOM	2972	N7	G	A	148	98.642	32.767	-3.494	1.00	72.15	A16S
ATOM	2973	C8	G	A	148	98.816	32.059	-4.573	1.00	72.15	A16S
ATOM	2974	C2*	G	A	148	101.637	30.637	-6.038	1.00	84.69	A16S
ATOM	2975	O2*	G	A	148	102.584	30.662	-7.085	1.00	84.69	A16S
ATOM	2976	C3*	G	A	148	100.858	29.329	-5.945	1.00	84.69	A16S
ATOM	2977	O3*	G	A	148	101.682	28.195	-6.224	1.00	84.69	A16S
ATOM	2978	P	A	A	149	102.573	27.534	-5.048	1.00	73.05	A16S
ATOM	2979	O1P	A	A	149	102.939	26.152	-5.497	1.00	65.15	A16S
ATOM	2980	O2P	A	A	149	101.901	27.740	-3.713	1.00	65.15	A16S
ATOM	2981	O5*	A	A	149	103.910	28.399	-5.028	1.00	73.05	A16S
ATOM	2982	C5*	A	A	149	104.644	28.658	-6.234	1.00	73.05	A16S
ATOM	2983	C4*	A	A	149	105.651	29.752	-5.995	1.00	73.05	A16S
ATOM	2984	O4*	A	A	149	104.966	30.982	-5.653	1.00	73.05	A16S
ATOM	2985	C1*	A	A	149	105.724	31.699	-4.701	1.00	73.05	A16S
ATOM	2986	N9	A	A	149	104.874	31.980	-3.540	1.00	65.15	A16S
ATOM	2987	C4	A	A	149	105.149	32.890	-2.550	1.00	65.15	A16S
ATOM	2988	N3	A	A	149	106.239	33.667	-2.441	1.00	65.15	A16S
ATOM	2989	C2	A	A	149	106.161	34.430	-1.356	1.00	65.15	A16S
ATOM	2990	N1	A	A	149	105.191	34.503	-0.441	1.00	65.15	A16S
ATOM	2991	C6	A	A	149	104.110	33.713	-0.580	1.00	65.15	A16S
ATOM	2992	N6	A	A	149	103.144	33.798	0.333	1.00	65.15	A16S
ATOM	2993	C5	A	A	149	104.070	32.851	-1.686	1.00	65.15	A16S
ATOM	2994	N7	A	A	149	103.132	31.925	-2.115	1.00	65.15	A16S
ATOM	2995	C8	A	A	149	103.656	31.433	-3.211	1.00	65.15	A16S
ATOM	2996	C2*	A	A	149	106.996	30.897	-4.408	1.00	73.05	A16S

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ATOM	2997	O2*	A	A 149	108.057	31.392	-5.197	1.00	73.05	A16S
ATOM	2998	C3*	A	A 149	106.590	29.496	-4.835	1.00	73.05	A16S
ATOM	2999	O3*	A	A 149	107.694	28.725	-5.271	1.00	73.05	A16S
ATOM	3000	P	C	A 150	108.604	27.966	-4.190	1.00	61.12	A16S
ATOM	3001	O1P	C	A 150	109.523	27.018	-4.896	1.00	58.75	A16S
ATOM	3002	O2P	C	A 150	107.711	27.457	-3.117	1.00	58.75	A16S
ATOM	3003	O5*	C	A 150	109.467	29.141	-3.556	1.00	61.12	A16S
ATOM	3004	C5*	C	A 150	110.323	29.972	-4.361	1.00	61.12	A16S
ATOM	3005	C4*	C	A 150	110.886	31.071	-3.503	1.00	61.12	A16S
ATOM	3006	O4*	C	A 150	109.804	31.935	-3.069	1.00	61.12	A16S
ATOM	3007	C1*	C	A 150	110.008	32.325	-1.721	1.00	61.12	A16S
ATOM	3008	N1	C	A 150	108.814	31.967	-0.930	1.00	58.75	A16S
ATOM	3009	C6	C	A 150	107.956	30.988	-1.348	1.00	58.75	A16S
ATOM	3010	C2	C	A 150	108.554	32.668	0.245	1.00	58.75	A16S
ATOM	3011	O2	C	A 150	109.374	33.514	0.630	1.00	58.75	A16S
ATOM	3012	N3	C	A 150	107.417	32.406	0.937	1.00	58.75	A16S
ATOM	3013	C4	C	A 150	106.570	31.478	0.497	1.00	58.75	A16S
ATOM	3014	N4	C	A 150	105.448	31.280	1.181	1.00	58.75	A16S
ATOM	3015	C5	C	A 150	106.831	30.717	-0.672	1.00	58.75	A16S
ATOM	3016	C2*	C	A 150	111.315	31.707	-1.235	1.00	61.12	A16S
ATOM	3017	O2*	C	A 150	112.328	32.682	-1.317	1.00	61.12	A16S
ATOM	3018	C3*	C	A 150	111.499	30.554	-2.216	1.00	61.12	A16S
ATOM	3019	O3*	C	A 150	112.851	30.188	-2.421	1.00	61.12	A16S
ATOM	3020	P	A	A 151	113.648	29.435	-1.248	1.00	44.64	A16S
ATOM	3021	O1P	A	A 151	115.055	29.215	-1.709	1.00	65.46	A16S
ATOM	3022	O2P	A	A 151	112.825	28.273	-0.774	1.00	65.46	A16S
ATOM	3023	O5*	A	A 151	113.686	30.531	-0.100	1.00	44.64	A16S
ATOM	3024	C5*	A	A 151	114.154	30.223	1.208	1.00	44.64	A16S
ATOM	3025	C4*	A	A 151	114.233	31.488	2.010	1.00	44.64	A16S
ATOM	3026	O4*	A	A 151	112.982	32.210	1.906	1.00	44.64	A16S
ATOM	3027	C1*	A	A 151	112.731	32.882	3.118	1.00	44.64	A16S
ATOM	3028	N9	A	A 151	111.413	32.496	3.607	1.00	65.46	A16S
ATOM	3029	C4	A	A 151	110.830	32.946	4.766	1.00	65.46	A16S
ATOM	3030	N3	A	A 151	111.352	33.805	5.658	1.00	65.46	A16S
ATOM	3031	C2	A	A 151	110.501	34.014	6.657	1.00	65.46	A16S
ATOM	3032	N1	A	A 151	109.285	33.500	6.850	1.00	65.46	A16S
ATOM	3033	C6	A	A 151	108.796	32.635	5.934	1.00	65.46	A16S
ATOM	3034	N6	A	A 151	107.586	32.112	6.128	1.00	65.46	A16S
ATOM	3035	C5	A	A 151	109.594	32.335	4.830	1.00	65.46	A16S
ATOM	3036	N7	A	A 151	109.396	31.509	3.733	1.00	65.46	A16S
ATOM	3037	C8	A	A 151	110.502	31.639	3.039	1.00	65.46	A16S
ATOM	3038	C2*	A	A 151	113.871	32.562	4.088	1.00	44.64	A16S
ATOM	3039	O2*	A	A 151	114.789	33.626	4.048	1.00	44.64	A16S
ATOM	3040	C3*	A	A 151	114.463	31.295	3.491	1.00	44.64	A16S
ATOM	3041	O3*	A	A 151	115.856	31.199	3.741	1.00	44.64	A16S
ATOM	3042	P	A	A 152	116.402	30.092	4.761	1.00	53.30	A16S
ATOM	3043	O1P	A	A 152	117.837	30.371	5.021	1.00	55.90	A16S
ATOM	3044	O2P	A	A 152	116.002	28.761	4.242	1.00	55.90	A16S
ATOM	3045	O5*	A	A 152	115.574	30.385	6.089	1.00	53.30	A16S
ATOM	3046	C5*	A	A 152	115.665	31.668	6.716	1.00	53.30	A16S
ATOM	3047	C4*	A	A 152	114.589	31.844	7.761	1.00	53.30	A16S
ATOM	3048	O4*	A	A 152	113.279	31.988	7.152	1.00	53.30	A16S
ATOM	3049	C1*	A	A 152	112.292	31.579	8.083	1.00	53.30	A16S
ATOM	3050	N9	A	A 152	111.428	30.575	7.468	1.00	55.90	A16S
ATOM	3051	C4	A	A 152	110.155	30.286	7.893	1.00	55.90	A16S
ATOM	3052	N3	A	A 152	109.483	30.873	8.899	1.00	55.90	A16S
ATOM	3053	C2	A	A 152	108.276	30.323	9.045	1.00	55.90	A16S
ATOM	3054	N1	A	A 152	107.711	29.323	8.357	1.00	55.90	A16S
ATOM	3055	C6	A	A 152	108.421	28.749	7.355	1.00	55.90	A16S
ATOM	3056	N6	A	A 152	107.870	27.736	6.681	1.00	55.90	A16S
ATOM	3057	C5	A	A 152	109.712	29.253	7.090	1.00	55.90	A16S
ATOM	3058	N7	A	A 152	110.681	28.905	6.157	1.00	55.90	A16S
ATOM	3059	C8	A	A 152	111.676	29.721	6.421	1.00	55.90	A16S
ATOM	3060	C2*	A	A 152	113.007	31.017	9.316	1.00	53.30	A16S
ATOM	3061	O2*	A	A 152	113.019	31.971	10.364	1.00	53.30	A16S
ATOM	3062	C3*	A	A 152	114.400	30.725	8.766	1.00	53.30	A16S
ATOM	3063	O3*	A	A 152	115.387	30.720	9.785	1.00	53.30	A16S
ATOM	3064	P	C	A 153	116.186	29.358	10.087	1.00	62.12	A16S
ATOM	3065	O1P	C	A 153	116.874	29.506	11.401	1.00	51.13	A16S
ATOM	3066	O2P	C	A 153	116.970	28.998	8.871	1.00	51.13	A16S
ATOM	3067	O5*	C	A 153	115.034	28.275	10.261	1.00	62.12	A16S
ATOM	3068	C5*	C	A 153	114.239	28.237	11.460	1.00	62.12	A16S
ATOM	3069	C4*	C	A 153	113.223	27.126	11.378	1.00	62.12	A16S
ATOM	3070	O4*	C	A 153	112.279	27.411	10.318	1.00	62.12	A16S
ATOM	3071	C1*	C	A 153	111.915	26.207	9.669	1.00	62.12	A16S
ATOM	3072	N1	C	A 153	112.330	26.297	8.264	1.00	51.13	A16S
ATOM	3073	C6	C	A 153	113.454	26.994	7.904	1.00	51.13	A16S

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ATOM	3074	C2	C	A 153	111.539	25.661	7.284	1.00	51.13	A16S
ATOM	3075	O2	C	A 153	110.537	25.000	7.642	1.00	51.13	A16S
ATOM	3076	N3	C	A 153	111.889	25.781	5.978	1.00	51.13	A16S
ATOM	3077	C4	C	A 153	112.975	26.487	5.640	1.00	51.13	A16S
ATOM	3078	N4	C	A 153	113.263	26.599	4.347	1.00	51.13	A16S
ATOM	3079	C5	C	A 153	113.810	27.114	6.619	1.00	51.13	A16S
ATOM	3080	C2*	C	A 153	112.600	25.055	10.394	1.00	62.12	A16S
ATOM	3081	O2*	C	A 153	111.684	24.523	11.327	1.00	62.12	A16S
ATOM	3082	C3*	C	A 153	113.789	25.763	11.031	1.00	62.12	A16S
ATOM	3083	O3*	C	A 153	114.270	25.099	12.182	1.00	62.12	A16S
ATOM	3084	P	C	A 154	115.373	23.947	12.022	1.00	85.81	A16S
ATOM	3085	O1P	C	A 154	115.552	23.378	13.383	1.00	82.70	A16S
ATOM	3086	O2P	C	A 154	116.553	24.482	11.284	1.00	82.70	A16S
ATOM	3087	O5*	C	A 154	114.654	22.863	11.101	1.00	85.81	A16S
ATOM	3088	C5*	C	A 154	113.585	22.044	11.614	1.00	85.81	A16S
ATOM	3089	C4*	C	A 154	113.209	20.989	10.604	1.00	85.81	A16S
ATOM	3090	O4*	C	A 154	112.534	21.607	9.479	1.00	85.81	A16S
ATOM	3091	C1*	C	A 154	112.909	20.953	8.273	1.00	85.81	A16S
ATOM	3092	N1	C	A 154	113.570	21.936	7.386	1.00	82.70	A16S
ATOM	3093	C6	C	A 154	114.167	23.049	7.903	1.00	82.70	A16S
ATOM	3094	C2	C	A 154	113.595	21.703	6.002	1.00	82.70	A16S
ATOM	3095	O2	C	A 154	113.018	20.708	5.544	1.00	82.70	A16S
ATOM	3096	N3	C	A 154	114.240	22.573	5.200	1.00	82.70	A16S
ATOM	3097	C4	C	A 154	114.829	23.646	5.722	1.00	82.70	A16S
ATOM	3098	N4	C	A 154	115.460	24.477	4.897	1.00	82.70	A16S
ATOM	3099	C5	C	A 154	114.799	23.920	7.116	1.00	82.70	A16S
ATOM	3100	C2*	C	A 154	113.840	19.795	8.644	1.00	85.81	A16S
ATOM	3101	O2*	C	A 154	113.117	18.585	8.751	1.00	85.81	A16S
ATOM	3102	C3*	C	A 154	114.387	20.254	9.987	1.00	85.81	A16S
ATOM	3103	O3*	C	A 154	114.829	19.162	10.776	1.00	85.81	A16S
ATOM	3104	P	C	A 155	116.331	18.624	10.600	1.00	83.34	A16S
ATOM	3105	O1P	C	A 155	116.516	17.548	11.610	1.00	99.38	A16S
ATOM	3106	O2P	C	A 155	117.253	19.798	10.604	1.00	99.38	A16S
ATOM	3107	O5*	C	A 155	116.334	17.973	9.144	1.00	83.34	A16S
ATOM	3108	C5*	C	A 155	115.690	16.709	8.904	1.00	83.34	A16S
ATOM	3109	C4*	C	A 155	116.032	16.191	7.524	1.00	83.34	A16S
ATOM	3110	O4*	C	A 155	115.422	17.046	6.520	1.00	83.34	A16S
ATOM	3111	C1*	C	A 155	116.271	17.129	5.383	1.00	83.34	A16S
ATOM	3112	N1	C	A 155	116.722	18.526	5.233	1.00	99.38	A16S
ATOM	3113	C6	C	A 155	116.819	19.351	6.321	1.00	99.38	A16S
ATOM	3114	C2	C	A 155	117.074	18.997	3.955	1.00	99.38	A16S
ATOM	3115	O2	C	A 155	116.959	18.242	2.979	1.00	99.38	A16S
ATOM	3116	N3	C	A 155	117.530	20.260	3.824	1.00	99.38	A16S
ATOM	3117	C4	C	A 155	117.637	21.047	4.898	1.00	99.38	A16S
ATOM	3118	N4	C	A 155	118.112	22.280	4.726	1.00	99.38	A16S
ATOM	3119	C5	C	A 155	117.267	20.602	6.201	1.00	99.38	A16S
ATOM	3120	C2*	C	A 155	117.466	16.206	5.631	1.00	83.34	A16S
ATOM	3121	O2*	C	A 155	117.248	14.931	5.062	1.00	83.34	A16S
ATOM	3122	C3*	C	A 155	117.509	16.163	7.150	1.00	83.34	A16S
ATOM	3123	O3*	C	A 155	118.218	15.021	7.609	1.00	83.34	A16S
ATOM	3124	P	G	A 156	119.824	15.079	7.701	1.00	79.46	A16S
ATOM	3125	O1P	G	A 156	120.265	13.792	8.296	1.00	92.34	A16S
ATOM	3126	O2P	G	A 156	120.217	16.354	8.347	1.00	92.34	A16S
ATOM	3127	O5*	G	A 156	120.309	15.110	6.183	1.00	79.46	A16S
ATOM	3128	C5*	G	A 156	120.154	13.942	5.368	1.00	79.46	A16S
ATOM	3129	C4*	G	A 156	120.649	14.185	3.966	1.00	79.46	A16S
ATOM	3130	O4*	G	A 156	119.831	15.190	3.314	1.00	79.46	A16S
ATOM	3131	C1*	G	A 156	120.621	15.912	2.380	1.00	79.46	A16S
ATOM	3132	N9	G	A 156	120.699	17.308	2.805	1.00	92.34	A16S
ATOM	3133	C4	G	A 156	121.131	18.363	2.035	1.00	92.34	A16S
ATOM	3134	N3	G	A 156	121.502	18.297	0.738	1.00	92.34	A16S
ATOM	3135	C2	G	A 156	121.893	19.471	0.274	1.00	92.34	A16S
ATOM	3136	N2	G	A 156	122.275	19.584	-1.004	1.00	92.34	A16S
ATOM	3137	N1	G	A 156	121.933	20.618	1.029	1.00	92.34	A16S
ATOM	3138	C6	G	A 156	121.566	20.708	2.368	1.00	92.34	A16S
ATOM	3139	O6	G	A 156	121.657	21.791	2.961	1.00	92.34	A16S
ATOM	3140	C5	G	A 156	121.123	19.455	2.874	1.00	92.34	A16S
ATOM	3141	N7	G	A 156	120.662	19.103	4.136	1.00	92.34	A16S
ATOM	3142	C8	G	A 156	120.414	17.825	4.047	1.00	92.34	A16S
ATOM	3143	C2*	G	A 156	122.022	15.299	2.400	1.00	79.46	A16S
ATOM	3144	O2*	G	A 156	122.161	14.324	1.379	1.00	79.46	A16S
ATOM	3145	C3*	G	A 156	122.066	14.701	3.798	1.00	79.46	A16S
ATOM	3146	O3*	G	A 156	123.058	13.703	3.898	1.00	79.46	A16S
ATOM	3147	P	G	A 157	124.558	14.133	4.282	1.00	91.00	A16S
ATOM	3148	O1P	G	A 157	125.317	12.864	4.420	1.00	109.33	A16S
ATOM	3149	O2P	G	A 157	124.508	15.086	5.421	1.00	109.33	A16S
ATOM	3150	O5*	G	A 157	125.088	14.915	2.995	1.00	91.00	A16S

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ATOM	3151	C5*	G	A	157	125.207	14.219	1.743	1.00	91.00	A16S
ATOM	3152	C4*	G	A	157	125.662	15.141	0.635	1.00	91.00	A16S
ATOM	3153	O4*	G	A	157	124.658	16.156	0.364	1.00	91.00	A16S
ATOM	3154	C1*	G	A	157	125.288	17.293	-0.205	1.00	91.00	A16S
ATOM	3155	N9	G	A	157	125.058	18.457	0.650	1.00109.33		A16S
ATOM	3156	C4	G	A	157	125.403	19.757	0.342	1.00109.33		A16S
ATOM	3157	N3	G	A	157	125.983	20.172	-0.810	1.00109.33		A16S
ATOM	3158	C2	G	A	157	126.209	21.472	-0.811	1.00109.33		A16S
ATOM	3159	N2	G	A	157	126.776	22.038	-1.881	1.00109.33		A16S
ATOM	3160	N1	G	A	157	125.895	22.309	0.239	1.00109.33		A16S
ATOM	3161	C6	G	A	157	125.300	21.909	1.437	1.00109.33		A16S
ATOM	3162	O6	G	A	157	125.064	22.749	2.326	1.00109.33		A16S
ATOM	3163	C5	G	A	157	125.048	20.502	1.448	1.00109.33		A16S
ATOM	3164	N7	G	A	157	124.478	19.693	2.424	1.00109.33		A16S
ATOM	3165	C8	G	A	157	124.501	18.491	1.907	1.00109.33		A16S
ATOM	3166	C2*	G	A	157	126.787	16.997	-0.275	1.00	91.00	A16S
ATOM	3167	O2*	G	A	157	127.122	16.499	-1.555	1.00	91.00	A16S
ATOM	3168	C3*	G	A	157	126.943	15.942	0.806	1.00	91.00	A16S
ATOM	3169	O3*	G	A	157	128.128	15.199	0.591	1.00	91.00	A16S
ATOM	3170	P	G	A	158	129.498	15.692	1.275	1.00111.62		A16S
ATOM	3171	O1P	G	A	158	130.543	14.674	0.994	1.00100.57		A16S
ATOM	3172	O2P	G	A	158	129.206	16.083	2.684	1.00100.57		A16S
ATOM	3173	O5*	G	A	158	129.881	17.004	0.460	1.00111.62		A16S
ATOM	3174	C5*	G	A	158	130.317	16.924	-0.911	1.00111.62		A16S
ATOM	3175	C4*	G	A	158	130.894	18.248	-1.360	1.00111.62		A16S
ATOM	3176	O4*	G	A	158	129.838	19.242	-1.466	1.00111.62		A16S
ATOM	3177	C1*	G	A	158	130.338	20.519	-1.090	1.00111.62		A16S
ATOM	3178	N9	G	A	158	129.572	21.018	0.059	1.00100.57		A16S
ATOM	3179	C4	G	A	158	129.546	22.315	0.530	1.00100.57		A16S
ATOM	3180	N3	G	A	158	130.229	23.363	0.016	1.00100.57		A16S
ATOM	3181	C2	G	A	158	130.013	24.476	0.698	1.00100.57		A16S
ATOM	3182	N2	G	A	158	130.632	25.608	0.337	1.00100.57		A16S
ATOM	3183	N1	G	A	158	129.179	24.559	1.787	1.00100.57		A16S
ATOM	3184	C6	G	A	158	128.459	23.498	2.327	1.00100.57		A16S
ATOM	3185	O6	G	A	158	127.722	23.684	3.299	1.00100.57		A16S
ATOM	3186	C5	G	A	158	128.698	22.293	1.620	1.00100.57		A16S
ATOM	3187	N7	G	A	158	128.206	21.015	1.837	1.00100.57		A16S
ATOM	3188	C8	G	A	158	128.745	20.295	0.890	1.00100.57		A16S
ATOM	3189	C2*	G	A	158	131.831	20.353	-0.789	1.00111.62		A16S
ATOM	3190	O2*	G	A	158	132.598	20.646	-1.943	1.00111.62		A16S
ATOM	3191	C3*	G	A	158	131.913	18.877	-0.423	1.00111.62		A16S
ATOM	3192	O3*	G	A	158	133.224	18.364	-0.597	1.00111.62		A16S
ATOM	3193	P	G	A	159	134.284	18.491	0.602	1.00113.74		A16S
ATOM	3194	O1P	G	A	159	135.569	17.912	0.118	1.00	98.88	A16S
ATOM	3195	O2P	G	A	159	133.658	17.976	1.854	1.00	98.88	A16S
ATOM	3196	O5*	G	A	159	134.482	20.060	0.772	1.00113.74		A16S
ATOM	3197	C5*	G	A	159	135.192	20.823	-0.217	1.00113.74		A16S
ATOM	3198	C4*	G	A	159	135.470	22.211	0.302	1.00113.74		A16S
ATOM	3199	O4*	G	A	159	134.247	22.990	0.323	1.00113.74		A16S
ATOM	3200	C1*	G	A	159	134.254	23.854	1.446	1.00113.74		A16S
ATOM	3201	N9	G	A	159	133.102	23.528	2.282	1.00	98.88	A16S
ATOM	3202	C4	G	A	159	132.628	24.249	3.359	1.00	98.88	A16S
ATOM	3203	N3	G	A	159	133.146	25.400	3.840	1.00	98.88	A16S
ATOM	3204	C2	G	A	159	132.465	25.852	4.883	1.00	98.88	A16S
ATOM	3205	N2	G	A	159	132.832	26.999	5.478	1.00	98.88	A16S
ATOM	3206	N1	G	A	159	131.372	25.219	5.419	1.00	98.88	A16S
ATOM	3207	C6	G	A	159	130.822	24.034	4.944	1.00	98.88	A16S
ATOM	3208	O6	G	A	159	129.832	23.545	5.502	1.00	98.88	A16S
ATOM	3209	C5	G	A	159	131.536	23.543	3.818	1.00	98.88	A16S
ATOM	3210	N7	G	A	159	131.328	22.406	3.051	1.00	98.88	A16S
ATOM	3211	C8	G	A	159	132.278	22.438	2.157	1.00	98.88	A16S
ATOM	3212	C2*	G	A	159	135.585	23.664	2.177	1.00113.74		A16S
ATOM	3213	O2*	G	A	159	136.498	24.655	1.750	1.00113.74		A16S
ATOM	3214	C3*	G	A	159	135.996	22.267	1.727	1.00113.74		A16S
ATOM	3215	O3*	G	A	159	137.408	22.075	1.780	1.00113.74		A16S
ATOM	3216	P	A	A	160	138.059	21.288	3.024	1.00	98.58	A16S
ATOM	3217	O1P	A	A	160	139.536	21.482	2.956	1.00116.98		A16S
ATOM	3218	O2P	A	A	160	137.497	19.911	3.033	1.00116.98		A16S
ATOM	3219	O5*	A	A	160	137.501	22.060	4.302	1.00	98.58	A16S
ATOM	3220	C5*	A	A	160	137.907	21.680	5.623	1.00	98.58	A16S
ATOM	3221	C4*	A	A	160	138.486	22.869	6.351	1.00	98.58	A16S
ATOM	3222	O4*	A	A	160	139.699	23.310	5.687	1.00	98.58	A16S
ATOM	3223	C1*	A	A	160	139.831	24.718	5.820	1.00	98.58	A16S
ATOM	3224	N9	A	A	160	139.968	25.312	4.487	1.00116.98		A16S
ATOM	3225	C4	A	A	160	140.220	26.637	4.220	1.00116.98		A16S
ATOM	3226	N3	A	A	160	140.398	27.629	5.111	1.00116.98		A16S
ATOM	3227	C2	A	A	160	140.613	28.784	4.488	1.00116.98		A16S

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ATOM	3228	N1	A	A 160	140.663	29.043	3.175	1.00116.98	A16S
ATOM	3229	C6	A	A 160	140.477	28.026	2.307	1.00116.98	A16S
ATOM	3230	N6	A	A 160	140.517	28.286	1.000	1.00116.98	A16S
ATOM	3231	C5	A	A 160	140.248	26.747	2.841	1.00116.98	A16S
ATOM	3232	N7	A	A 160	140.029	25.512	2.245	1.00116.98	A16S
ATOM	3233	C8	A	A 160	139.870	24.696	3.259	1.00116.98	A16S
ATOM	3234	C2*	A	A 160	138.624	25.233	6.607	1.00 98.58	A16S
ATOM	3235	O2*	A	A 160	138.986	25.417	7.963	1.00 98.58	A16S
ATOM	3236	C3*	A	A 160	137.612	24.110	6.403	1.00 98.58	A16S
ATOM	3237	O3*	A	A 160	136.674	24.038	7.466	1.00 98.58	A16S
ATOM	3238	P	A	A 161	135.194	24.626	7.257	1.00116.23	A16S
ATOM	3239	O1P	A	A 161	134.436	24.361	8.517	1.00 86.44	A16S
ATOM	3240	O2P	A	A 161	134.676	24.092	5.961	1.00 86.44	A16S
ATOM	3241	O5*	A	A 161	135.422	26.203	7.107	1.00116.23	A16S
ATOM	3242	C5*	A	A 161	135.983	26.991	8.190	1.00116.23	A16S
ATOM	3243	C4*	A	A 161	136.397	28.365	7.695	1.00116.23	A16S
ATOM	3244	O4*	A	A 161	137.379	28.208	6.640	1.00116.23	A16S
ATOM	3245	C1*	A	A 161	137.188	29.206	5.653	1.00116.23	A16S
ATOM	3246	N9	A	A 161	136.824	28.541	4.406	1.00 86.44	A16S
ATOM	3247	C4	A	A 161	137.076	28.975	3.127	1.00 86.44	A16S
ATOM	3248	N3	A	A 161	137.708	30.096	2.757	1.00 86.44	A16S
ATOM	3249	C2	A	A 161	137.779	30.177	1.431	1.00 86.44	A16S
ATOM	3250	N1	A	A 161	137.321	29.331	0.501	1.00 86.44	A16S
ATOM	3251	C6	A	A 161	136.682	28.218	0.906	1.00 86.44	A16S
ATOM	3252	N6	A	A 161	136.213	27.381	-0.021	1.00 86.44	A16S
ATOM	3253	C5	A	A 161	136.547	28.011	2.290	1.00 86.44	A16S
ATOM	3254	N7	A	A 161	135.965	26.991	3.028	1.00 86.44	A16S
ATOM	3255	C8	A	A 161	136.155	27.352	4.272	1.00 86.44	A16S
ATOM	3256	C2*	A	A 161	136.081	30.139	6.138	1.00116.23	A16S
ATOM	3257	O2*	A	A 161	136.664	31.240	6.801	1.00116.23	A16S
ATOM	3258	C3*	A	A 161	135.304	29.231	7.080	1.00116.23	A16S
ATOM	3259	O3*	A	A 161	134.615	29.997	8.059	1.00116.23	A16S
ATOM	3260	P	A	A 162	133.114	30.497	7.768	1.00101.02	A16S
ATOM	3261	O1P	A	A 162	132.621	31.167	9.005	1.00 97.31	A16S
ATOM	3262	O2P	A	A 162	132.348	29.364	7.188	1.00 97.31	A16S
ATOM	3263	O5*	A	A 162	133.263	31.600	6.629	1.00101.02	A16S
ATOM	3264	C5*	A	A 162	133.562	32.980	6.942	1.00101.02	A16S
ATOM	3265	C4*	A	A 162	133.637	33.792	5.666	1.00101.02	A16S
ATOM	3266	O4*	A	A 162	134.632	33.183	4.796	1.00101.02	A16S
ATOM	3267	C1*	A	A 162	134.157	33.156	3.460	1.00101.02	A16S
ATOM	3268	N9	A	A 162	133.892	31.756	3.105	1.00 97.31	A16S
ATOM	3269	C4	A	A 162	133.943	31.201	1.850	1.00 97.31	A16S
ATOM	3270	N3	A	A 162	134.293	31.807	0.703	1.00 97.31	A16S
ATOM	3271	C2	A	A 162	134.196	30.963	-0.319	1.00 97.31	A16S
ATOM	3272	N1	A	A 162	133.816	29.678	-0.326	1.00 97.31	A16S
ATOM	3273	C6	A	A 162	133.471	29.101	0.845	1.00 97.31	A16S
ATOM	3274	N6	A	A 162	133.086	27.824	0.840	1.00 97.31	A16S
ATOM	3275	C5	A	A 162	133.536	29.887	2.003	1.00 97.31	A16S
ATOM	3276	N7	A	A 162	133.262	29.607	3.332	1.00 97.31	A16S
ATOM	3277	C8	A	A 162	133.496	30.739	3.944	1.00 97.31	A16S
ATOM	3278	C2*	A	A 162	132.870	33.984	3.423	1.00101.02	A16S
ATOM	3279	O2*	A	A 162	133.166	35.330	3.110	1.00101.02	A16S
ATOM	3280	C3*	A	A 162	132.355	33.801	4.845	1.00101.02	A16S
ATOM	3281	O3*	A	A 162	131.450	34.822	5.255	1.00101.02	A16S
ATOM	3282	P	C	A 163	130.029	34.412	5.890	1.00 91.01	A16S
ATOM	3283	O1P	C	A 163	129.262	35.666	6.102	1.00113.06	A16S
ATOM	3284	O2P	C	A 163	130.299	33.518	7.047	1.00113.06	A16S
ATOM	3285	O5*	C	A 163	129.310	33.560	4.745	1.00 91.01	A16S
ATOM	3286	C5*	C	A 163	129.019	34.145	3.457	1.00 91.01	A16S
ATOM	3287	C4*	C	A 163	129.441	33.217	2.336	1.00 91.01	A16S
ATOM	3288	O4*	C	A 163	130.399	32.242	2.838	1.00 91.01	A16S
ATOM	3289	C1*	C	A 163	130.265	31.017	2.125	1.00 91.01	A16S
ATOM	3290	N1	C	A 163	129.918	29.928	3.069	1.00113.06	A16S
ATOM	3291	C6	C	A 163	129.734	30.177	4.402	1.00113.06	A16S
ATOM	3292	C2	C	A 163	129.757	28.618	2.567	1.00113.06	A16S
ATOM	3293	O2	C	A 163	129.958	28.403	1.360	1.00113.06	A16S
ATOM	3294	N3	C	A 163	129.390	27.626	3.412	1.00113.06	A16S
ATOM	3295	C4	C	A 163	129.195	27.890	4.706	1.00113.06	A16S
ATOM	3296	N4	C	A 163	128.819	26.883	5.500	1.00113.06	A16S
ATOM	3297	C5	C	A 163	129.375	29.198	5.246	1.00113.06	A16S
ATOM	3298	C2*	C	A 163	129.170	31.221	1.077	1.00 91.01	A16S
ATOM	3299	O2*	C	A 163	129.771	31.557	-0.158	1.00 91.01	A16S
ATOM	3300	C3*	C	A 163	128.363	32.363	1.685	1.00 91.01	A16S
ATOM	3301	O3*	C	A 163	127.636	33.059	0.682	1.00 91.01	A16S
ATOM	3302	P	U	A 164	126.218	32.481	0.189	1.00 93.42	A16S
ATOM	3303	O1P	U	A 164	125.702	33.360	-0.897	1.00100.83	A16S
ATOM	3304	O2P	U	A 164	125.382	32.221	1.392	1.00100.83	A16S

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ATOM	3305	O5*	U	A	164	126.573	31.077	-0.463	1.00	93.42	A16S
ATOM	3306	C5*	U	A	164	127.348	31.006	-1.667	1.00	93.42	A16S
ATOM	3307	C4*	U	A	164	127.368	29.593	-2.185	1.00	93.42	A16S
ATOM	3308	O4*	U	A	164	127.958	28.727	-1.182	1.00	93.42	A16S
ATOM	3309	C1*	U	A	164	127.302	27.471	-1.195	1.00	93.42	A16S
ATOM	3310	N1	U	A	164	126.784	27.181	0.154	1.00	100.83	A16S
ATOM	3311	C6	U	A	164	126.743	28.144	1.138	1.00	100.83	A16S
ATOM	3312	C2	U	A	164	126.345	25.885	0.411	1.00	100.83	A16S
ATOM	3313	O2	U	A	164	126.343	25.000	-0.430	1.00	100.83	A16S
ATOM	3314	N3	U	A	164	125.905	25.663	1.689	1.00	100.83	A16S
ATOM	3315	C4	U	A	164	125.853	26.574	2.714	1.00	100.83	A16S
ATOM	3316	O4	U	A	164	125.444	26.210	3.815	1.00	100.83	A16S
ATOM	3317	C5	U	A	164	126.307	27.891	2.375	1.00	100.83	A16S
ATOM	3318	C2*	U	A	164	126.235	27.500	-2.292	1.00	93.42	A16S
ATOM	3319	O2*	U	A	164	126.757	26.879	-3.449	1.00	93.42	A16S
ATOM	3320	C3*	U	A	164	125.997	28.997	-2.459	1.00	93.42	A16S
ATOM	3321	O3*	U	A	164	125.535	29.353	-3.759	1.00	93.42	A16S
ATOM	3322	P	C	A	165	123.965	29.251	-4.106	1.00	83.23	A16S
ATOM	3323	O1P	C	A	165	123.754	29.973	-5.391	1.00	92.17	A16S
ATOM	3324	O2P	C	A	165	123.164	29.640	-2.906	1.00	92.17	A16S
ATOM	3325	O5*	C	A	165	123.757	27.694	-4.387	1.00	83.23	A16S
ATOM	3326	C5*	C	A	165	124.478	27.038	-5.455	1.00	83.23	A16S
ATOM	3327	C4*	C	A	165	124.215	25.547	-5.444	1.00	83.23	A16S
ATOM	3328	O4*	C	A	165	124.859	24.916	-4.307	1.00	83.23	A16S
ATOM	3329	C1*	C	A	165	124.069	23.828	-3.864	1.00	83.23	A16S
ATOM	3330	N1	C	A	165	123.685	24.046	-2.462	1.00	92.17	A16S
ATOM	3331	C6	C	A	165	123.778	25.280	-1.880	1.00	92.17	A16S
ATOM	3332	C2	C	A	165	123.213	22.955	-1.728	1.00	92.17	A16S
ATOM	3333	O2	C	A	165	123.114	21.852	-2.293	1.00	92.17	A16S
ATOM	3334	N3	C	A	165	122.864	23.129	-0.431	1.00	92.17	A16S
ATOM	3335	C4	C	A	165	122.961	24.337	0.129	1.00	92.17	A16S
ATOM	3336	N4	C	A	165	122.608	24.462	1.409	1.00	92.17	A16S
ATOM	3337	C5	C	A	165	123.425	25.469	-0.601	1.00	92.17	A16S
ATOM	3338	C2*	C	A	165	122.844	23.729	-4.768	1.00	83.23	A16S
ATOM	3339	O2*	C	A	165	123.091	22.748	-5.747	1.00	83.23	A16S
ATOM	3340	C3*	C	A	165	122.760	25.141	-5.331	1.00	83.23	A16S
ATOM	3341	O3*	C	A	165	122.117	25.182	-6.588	1.00	83.23	A16S
ATOM	3342	P	G	A	166	120.523	25.347	-6.649	1.00	70.50	A16S
ATOM	3343	O1P	G	A	166	120.172	25.486	-8.089	1.00	83.51	A16S
ATOM	3344	O2P	G	A	166	120.115	26.402	-5.686	1.00	83.51	A16S
ATOM	3345	O5*	G	A	166	119.980	23.945	-6.112	1.00	70.50	A16S
ATOM	3346	C5*	G	A	166	120.231	22.738	-6.857	1.00	70.50	A16S
ATOM	3347	C4*	G	A	166	119.760	21.516	-6.099	1.00	70.50	A16S
ATOM	3348	O4*	G	A	166	120.569	21.295	-4.914	1.00	70.50	A16S
ATOM	3349	C1*	G	A	166	119.788	20.631	-3.932	1.00	70.50	A16S
ATOM	3350	N9	G	A	166	119.787	21.425	-2.707	1.00	83.51	A16S
ATOM	3351	C4	G	A	166	119.351	21.008	-1.471	1.00	83.51	A16S
ATOM	3352	N3	G	A	166	118.855	19.787	-1.173	1.00	83.51	A16S
ATOM	3353	C2	G	A	166	118.512	19.688	0.103	1.00	83.51	A16S
ATOM	3354	N2	G	A	166	117.995	18.542	0.572	1.00	83.51	A16S
ATOM	3355	N1	G	A	166	118.648	20.703	1.013	1.00	83.51	A16S
ATOM	3356	C6	G	A	166	119.157	21.965	0.729	1.00	83.51	A16S
ATOM	3357	O6	G	A	166	119.245	22.806	1.627	1.00	83.51	A16S
ATOM	3358	C5	G	A	166	119.524	22.088	-0.639	1.00	83.51	A16S
ATOM	3359	N7	G	A	166	120.058	23.166	-1.334	1.00	83.51	A16S
ATOM	3360	C8	G	A	166	120.199	22.726	-2.555	1.00	83.51	A16S
ATOM	3361	C2*	G	A	166	118.373	20.456	-4.491	1.00	70.50	A16S
ATOM	3362	O2*	G	A	166	118.198	19.148	-4.996	1.00	70.50	A16S
ATOM	3363	C3*	G	A	166	118.335	21.518	-5.580	1.00	70.50	A16S
ATOM	3364	O3*	G	A	166	117.385	21.196	-6.576	1.00	70.50	A16S
ATOM	3365	P	G	A	167	115.879	21.723	-6.414	1.00	64.73	A16S
ATOM	3366	O1P	G	A	167	115.180	21.434	-7.695	1.00	90.16	A16S
ATOM	3367	O2P	G	A	167	115.929	23.122	-5.904	1.00	90.16	A16S
ATOM	3368	O5*	G	A	167	115.281	20.801	-5.255	1.00	64.73	A16S
ATOM	3369	C5*	G	A	167	115.115	19.378	-5.456	1.00	64.73	A16S
ATOM	3370	C4*	G	A	167	114.567	18.707	-4.211	1.00	64.73	A16S
ATOM	3371	O4*	G	A	167	115.563	18.706	-3.154	1.00	64.73	A16S
ATOM	3372	C1*	G	A	167	114.918	18.789	-1.894	1.00	64.73	A16S
ATOM	3373	N9	G	A	167	115.361	20.004	-1.220	1.00	90.16	A16S
ATOM	3374	C4	G	A	167	115.154	20.323	0.102	1.00	90.16	A16S
ATOM	3375	N3	G	A	167	114.528	19.551	1.017	1.00	90.16	A16S
ATOM	3376	C2	G	A	167	114.471	20.139	2.205	1.00	90.16	A16S
ATOM	3377	N2	G	A	167	113.889	19.509	3.237	1.00	90.16	A16S
ATOM	3378	N1	G	A	167	114.981	21.385	2.469	1.00	90.16	A16S
ATOM	3379	C6	G	A	167	115.621	22.198	1.540	1.00	90.16	A16S
ATOM	3380	O6	G	A	167	116.029	23.315	1.877	1.00	90.16	A16S
ATOM	3381	C5	G	A	167	115.700	21.576	0.265	1.00	90.16	A16S

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ATOM	3382	N7	G	A	167	116.259	22.028	-0.923	1.00	90.16	A16S
ATOM	3383	C8	G	A	167	116.037	21.064	-1.773	1.00	90.16	A16S
ATOM	3384	C2*	G	A	167	113.410	18.820	-2.140	1.00	64.73	A16S
ATOM	3385	O2*	G	A	167	112.888	17.518	-1.969	1.00	64.73	A16S
ATOM	3386	C3*	G	A	167	113.337	19.330	-3.575	1.00	64.73	A16S
ATOM	3387	O3*	G	A	167	112.140	18.941	-4.223	1.00	64.73	A16S
ATOM	3388	P	G	A	168	110.837	19.881	-4.112	1.00	58.44	A16S
ATOM	3389	O1P	G	A	168	109.767	19.266	-4.946	1.00	82.92	A16S
ATOM	3390	O2P	G	A	168	111.240	21.294	-4.368	1.00	82.92	A16S
ATOM	3391	O5*	G	A	168	110.414	19.773	-2.576	1.00	58.44	A16S
ATOM	3392	C5*	G	A	168	109.878	18.551	-2.047	1.00	58.44	A16S
ATOM	3393	C4*	G	A	168	109.440	18.736	-0.614	1.00	58.44	A16S
ATOM	3394	O4*	G	A	168	110.591	18.909	0.250	1.00	58.44	A16S
ATOM	3395	C1*	G	A	168	110.258	19.777	1.325	1.00	58.44	A16S
ATOM	3396	N9	G	A	168	111.152	20.935	1.281	1.00	82.92	A16S
ATOM	3397	C4	G	A	168	111.331	21.891	2.267	1.00	82.92	A16S
ATOM	3398	N3	G	A	168	110.746	21.906	3.487	1.00	82.92	A16S
ATOM	3399	C2	G	A	168	111.100	22.969	4.189	1.00	82.92	A16S
ATOM	3400	N2	G	A	168	110.639	23.141	5.428	1.00	82.92	A16S
ATOM	3401	N1	G	A	168	111.939	23.941	3.730	1.00	82.92	A16S
ATOM	3402	C6	G	A	168	112.550	23.946	2.483	1.00	82.92	A16S
ATOM	3403	O6	G	A	168	113.292	24.879	2.163	1.00	82.92	A16S
ATOM	3404	C5	G	A	168	112.199	22.810	1.726	1.00	82.92	A16S
ATOM	3405	N7	G	A	168	112.593	22.430	0.450	1.00	82.92	A16S
ATOM	3406	C8	G	A	168	111.955	21.313	0.231	1.00	82.92	A16S
ATOM	3407	C2*	G	A	168	108.791	20.183	1.152	1.00	58.44	A16S
ATOM	3408	O2*	G	A	168	107.955	19.385	1.965	1.00	58.44	A16S
ATOM	3409	C3*	G	A	168	108.574	19.945	-0.336	1.00	58.44	A16S
ATOM	3410	O3*	G	A	168	107.216	19.707	-0.643	1.00	58.44	A16S
ATOM	3411	P	C	A	169	106.266	20.950	-1.013	1.00	53.26	A16S
ATOM	3412	O1P	C	A	169	105.000	20.413	-1.589	1.00	73.01	A16S
ATOM	3413	O2P	C	A	169	107.080	21.922	-1.796	1.00	73.01	A16S
ATOM	3414	O5*	C	A	169	105.945	21.620	0.396	1.00	53.26	A16S
ATOM	3415	C5*	C	A	169	105.407	20.834	1.456	1.00	53.26	A16S
ATOM	3416	C4*	C	A	169	105.265	21.657	2.703	1.00	53.26	A16S
ATOM	3417	O4*	C	A	169	106.560	21.940	3.295	1.00	53.26	A16S
ATOM	3418	C1*	C	A	169	106.434	23.073	4.136	1.00	53.26	A16S
ATOM	3419	N1	C	A	169	107.540	24.025	3.910	1.00	73.01	A16S
ATOM	3420	C6	C	A	169	108.101	24.206	2.677	1.00	73.01	A16S
ATOM	3421	C2	C	A	169	107.993	24.771	5.001	1.00	73.01	A16S
ATOM	3422	O2	C	A	169	107.479	24.571	6.119	1.00	73.01	A16S
ATOM	3423	N3	C	A	169	108.974	25.690	4.821	1.00	73.01	A16S
ATOM	3424	C4	C	A	169	109.500	25.873	3.612	1.00	73.01	A16S
ATOM	3425	N4	C	A	169	110.451	26.804	3.481	1.00	73.01	A16S
ATOM	3426	C5	C	A	169	109.074	25.113	2.484	1.00	73.01	A16S
ATOM	3427	C2*	C	A	169	105.065	23.698	3.867	1.00	53.26	A16S
ATOM	3428	O2*	C	A	169	104.202	23.334	4.924	1.00	53.26	A16S
ATOM	3429	C3*	C	A	169	104.662	23.038	2.553	1.00	53.26	A16S
ATOM	3430	O3*	C	A	169	103.256	23.026	2.399	1.00	53.26	A16S
ATOM	3431	P	U	A	170	102.539	24.274	1.679	1.00	50.78	A16S
ATOM	3432	O1P	U	A	170	101.076	24.039	1.602	1.00	58.15	A16S
ATOM	3433	O2P	U	A	170	103.303	24.530	0.433	1.00	58.15	A16S
ATOM	3434	O5*	U	A	170	102.780	25.500	2.675	1.00	50.78	A16S
ATOM	3435	C5*	U	A	170	102.260	25.464	4.025	1.00	50.78	A16S
ATOM	3436	C4*	U	A	170	102.595	26.740	4.779	1.00	50.78	A16S
ATOM	3437	O4*	U	A	170	104.016	26.815	5.073	1.00	50.78	A16S
ATOM	3438	C1*	U	A	170	104.443	28.163	5.005	1.00	50.78	A16S
ATOM	3439	N1	U	A	170	105.435	28.268	3.920	1.00	58.15	A16S
ATOM	3440	C6	U	A	170	105.245	27.644	2.702	1.00	58.15	A16S
ATOM	3441	C2	U	A	170	106.576	28.998	4.164	1.00	58.15	A16S
ATOM	3442	O2	U	A	170	106.747	29.621	5.193	1.00	58.15	A16S
ATOM	3443	N3	U	A	170	107.504	28.992	3.149	1.00	58.15	A16S
ATOM	3444	C4	U	A	170	107.394	28.366	1.926	1.00	58.15	A16S
ATOM	3445	O4	U	A	170	108.346	28.391	1.143	1.00	58.15	A16S
ATOM	3446	C5	U	A	170	106.158	27.673	1.723	1.00	58.15	A16S
ATOM	3447	C2*	U	A	170	103.202	29.029	4.782	1.00	50.78	A16S
ATOM	3448	O2*	U	A	170	102.697	29.421	6.040	1.00	50.78	A16S
ATOM	3449	C3*	U	A	170	102.265	28.051	4.087	1.00	50.78	A16S
ATOM	3450	O3*	U	A	170	100.898	28.390	4.279	1.00	50.78	A16S
ATOM	3451	P	A	A	171	100.219	29.525	3.361	1.00	58.74	A16S
ATOM	3452	O1P	A	A	171	98.744	29.291	3.360	1.00	61.75	A16S
ATOM	3453	O2P	A	A	171	100.953	29.574	2.058	1.00	61.75	A16S
ATOM	3454	O5*	A	A	171	100.518	30.868	4.174	1.00	58.74	A16S
ATOM	3455	C5*	A	A	171	100.136	30.986	5.563	1.00	58.74	A16S
ATOM	3456	C4*	A	A	171	100.457	32.369	6.100	1.00	58.74	A16S
ATOM	3457	O4*	A	A	171	101.852	32.482	6.489	1.00	58.74	A16S
ATOM	3458	C1*	A	A	171	102.292	33.814	6.284	1.00	58.74	A16S

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ATOM	3459	N9	A	A	171	103.411	33.784	5.332	1.00	61.75	A16S
ATOM	3460	C4	A	A	171	104.578	34.518	5.388	1.00	61.75	A16S
ATOM	3461	N3	A	A	171	104.920	35.454	6.292	1.00	61.75	A16S
ATOM	3462	C2	A	A	171	106.145	35.914	6.052	1.00	61.75	A16S
ATOM	3463	N1	A	A	171	107.005	35.568	5.091	1.00	61.75	A16S
ATOM	3464	C6	A	A	171	106.632	34.623	4.202	1.00	61.75	A16S
ATOM	3465	N6	A	A	171	107.498	34.251	3.260	1.00	61.75	A16S
ATOM	3466	C5	A	A	171	105.353	34.072	4.332	1.00	61.75	A16S
ATOM	3467	N7	A	A	171	104.676	33.118	3.591	1.00	61.75	A16S
ATOM	3468	C8	A	A	171	103.531	32.987	4.217	1.00	61.75	A16S
ATOM	3469	C2*	A	A	171	101.082	34.626	5.813	1.00	58.74	A16S
ATOM	3470	O2*	A	A	171	100.437	35.183	6.945	1.00	58.74	A16S
ATOM	3471	C3*	A	A	171	100.217	33.549	5.177	1.00	58.74	A16S
ATOM	3472	O3*	A	A	171	98.852	33.919	5.124	1.00	58.74	A16S
ATOM	3473	P	A	A	172	98.293	34.683	3.824	1.00	60.89	A16S
ATOM	3474	O1P	A	A	172	96.796	34.745	3.896	1.00	46.22	A16S
ATOM	3475	O2P	A	A	172	98.944	34.117	2.605	1.00	46.22	A16S
ATOM	3476	O5*	A	A	172	98.866	36.151	4.026	1.00	60.89	A16S
ATOM	3477	C5*	A	A	172	98.520	36.905	5.196	1.00	60.89	A16S
ATOM	3478	C4*	A	A	172	99.311	38.190	5.251	1.00	60.89	A16S
ATOM	3479	O4*	A	A	172	100.698	37.909	5.562	1.00	60.89	A16S
ATOM	3480	C1*	A	A	172	101.527	38.834	4.890	1.00	60.89	A16S
ATOM	3481	N9	A	A	172	102.327	38.088	3.919	1.00	46.22	A16S
ATOM	3482	C4	A	A	172	103.675	38.209	3.688	1.00	46.22	A16S
ATOM	3483	N3	A	A	172	104.536	39.029	4.308	1.00	46.22	A16S
ATOM	3484	C2	A	A	172	105.759	38.870	3.823	1.00	46.22	A16S
ATOM	3485	N1	A	A	172	106.182	38.051	2.856	1.00	46.22	A16S
ATOM	3486	C6	A	A	172	105.283	37.254	2.245	1.00	46.22	A16S
ATOM	3487	N6	A	A	172	105.699	36.461	1.262	1.00	46.22	A16S
ATOM	3488	C5	A	A	172	103.964	37.318	2.676	1.00	46.22	A16S
ATOM	3489	N7	A	A	172	102.826	36.642	2.276	1.00	46.22	A16S
ATOM	3490	C8	A	A	172	101.884	37.131	3.043	1.00	46.22	A16S
ATOM	3491	C2*	A	A	172	100.609	39.851	4.211	1.00	60.89	A16S
ATOM	3492	O2*	A	A	172	100.337	40.905	5.115	1.00	60.89	A16S
ATOM	3493	C3*	A	A	172	99.360	39.022	3.981	1.00	60.89	A16S
ATOM	3494	O3*	A	A	172	98.209	39.837	3.845	1.00	60.89	A16S
ATOM	3495	P	U	A	173	97.939	40.609	2.460	1.00	58.77	A16S
ATOM	3496	O1P	U	A	173	98.659	39.889	1.365	1.00	57.11	A16S
ATOM	3497	O2P	U	A	173	96.472	40.830	2.337	1.00	57.11	A16S
ATOM	3498	O5*	U	A	173	98.659	42.021	2.701	1.00	58.77	A16S
ATOM	3499	C5*	U	A	173	98.509	43.091	1.740	1.00	58.77	A16S
ATOM	3500	C4*	U	A	173	99.625	44.127	1.847	1.00	58.77	A16S
ATOM	3501	O4*	U	A	173	99.347	45.182	2.813	1.00	58.77	A16S
ATOM	3502	C1*	U	A	173	100.551	45.501	3.472	1.00	58.77	A16S
ATOM	3503	N1	U	A	173	100.261	46.131	4.768	1.00	57.11	A16S
ATOM	3504	C6	U	A	173	99.211	45.726	5.552	1.00	57.11	A16S
ATOM	3505	C2	U	A	173	101.099	47.158	5.182	1.00	57.11	A16S
ATOM	3506	O2	U	A	173	102.026	47.575	4.514	1.00	57.11	A16S
ATOM	3507	N3	U	A	173	100.808	47.688	6.410	1.00	57.11	A16S
ATOM	3508	C4	U	A	173	99.785	47.320	7.246	1.00	57.11	A16S
ATOM	3509	O4	U	A	173	99.700	47.842	8.356	1.00	57.11	A16S
ATOM	3510	C5	U	A	173	98.949	46.272	6.744	1.00	57.11	A16S
ATOM	3511	C2*	U	A	173	101.345	44.191	3.491	1.00	58.77	A16S
ATOM	3512	O2*	U	A	173	102.714	44.425	3.750	1.00	58.77	A16S
ATOM	3513	C3*	U	A	173	101.062	43.668	2.082	1.00	58.77	A16S
ATOM	3514	O3*	U	A	173	101.896	44.388	1.175	1.00	58.77	A16S
ATOM	3515	P	C	A	174	102.034	43.898	-0.349	1.00	44.06	A16S
ATOM	3516	O1P	C	A	174	102.642	45.017	-1.105	1.00	56.42	A16S
ATOM	3517	O2P	C	A	174	100.740	43.334	-0.809	1.00	56.42	A16S
ATOM	3518	O5*	C	A	174	103.091	42.711	-0.241	1.00	44.06	A16S
ATOM	3519	C5*	C	A	174	104.485	42.972	0.057	1.00	44.06	A16S
ATOM	3520	C4*	C	A	174	105.352	41.959	-0.646	1.00	44.06	A16S
ATOM	3521	O4*	C	A	174	105.260	40.695	0.050	1.00	44.06	A16S
ATOM	3522	C1*	C	A	174	105.182	39.630	-0.889	1.00	44.06	A16S
ATOM	3523	N1	C	A	174	103.895	38.929	-0.691	1.00	56.42	A16S
ATOM	3524	C6	C	A	174	102.985	39.396	0.215	1.00	56.42	A16S
ATOM	3525	C2	C	A	174	103.603	37.784	-1.458	1.00	56.42	A16S
ATOM	3526	O2	C	A	174	104.441	37.362	-2.273	1.00	56.42	A16S
ATOM	3527	N3	C	A	174	102.413	37.174	-1.293	1.00	56.42	A16S
ATOM	3528	C4	C	A	174	101.535	37.653	-0.414	1.00	56.42	A16S
ATOM	3529	N4	C	A	174	100.381	37.024	-0.287	1.00	56.42	A16S
ATOM	3530	C5	C	A	174	101.804	38.798	0.377	1.00	56.42	A16S
ATOM	3531	C2*	C	A	174	105.329	40.233	-2.294	1.00	44.06	A16S
ATOM	3532	O2*	C	A	174	106.668	40.136	-2.737	1.00	44.06	A16S
ATOM	3533	C3*	C	A	174	104.880	41.665	-2.062	1.00	44.06	A16S
ATOM	3534	O3*	C	A	174	105.424	42.580	-2.995	1.00	44.06	A16S
ATOM	3535	P	C	A	175	104.450	43.314	-4.040	1.00	51.51	A16S

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ATOM	3536	O1P	C	A	175	105.193	44.490	-4.545	1.00	65.07	A16S
ATOM	3537	O2P	C	A	175	103.111	43.511	-3.414	1.00	65.07	A16S
ATOM	3538	O5*	C	A	175	104.308	42.249	-5.215	1.00	51.51	A16S
ATOM	3539	C5*	C	A	175	105.470	41.758	-5.895	1.00	51.51	A16S
ATOM	3540	C4*	C	A	175	105.138	40.501	-6.650	1.00	51.51	A16S
ATOM	3541	O4*	C	A	175	104.846	39.438	-5.710	1.00	51.51	A16S
ATOM	3542	C1*	C	A	175	103.832	38.596	-6.246	1.00	51.51	A16S
ATOM	3543	N1	C	A	175	102.667	38.590	-5.334	1.00	65.07	A16S
ATOM	3544	C6	C	A	175	102.554	39.516	-4.334	1.00	65.07	A16S
ATOM	3545	C2	C	A	175	101.665	37.612	-5.508	1.00	65.07	A16S
ATOM	3546	O2	C	A	175	101.772	36.787	-6.436	1.00	65.07	A16S
ATOM	3547	N3	C	A	175	100.605	37.600	-4.667	1.00	65.07	A16S
ATOM	3548	C4	C	A	175	100.511	38.513	-3.697	1.00	65.07	A16S
ATOM	3549	N4	C	A	175	99.452	38.472	-2.899	1.00	65.07	A16S
ATOM	3550	C5	C	A	175	101.503	39.513	-3.504	1.00	65.07	A16S
ATOM	3551	C2*	C	A	175	103.474	39.124	-7.634	1.00	51.51	A16S
ATOM	3552	O2*	C	A	175	104.217	38.438	-8.623	1.00	51.51	A16S
ATOM	3553	C3*	C	A	175	103.901	40.578	-7.527	1.00	51.51	A16S
ATOM	3554	O3*	C	A	175	104.139	41.135	-8.810	1.00	51.51	A16S
ATOM	3555	P	C	A	176	102.923	41.842	-9.589	1.00	56.91	A16S
ATOM	3556	O1P	C	A	176	103.507	42.516	-10.774	1.00	72.82	A16S
ATOM	3557	O2P	C	A	176	102.111	42.630	-8.612	1.00	72.82	A16S
ATOM	3558	O5*	C	A	176	102.024	40.630	-10.109	1.00	56.91	A16S
ATOM	3559	C5*	C	A	176	102.541	39.694	-11.081	1.00	56.91	A16S
ATOM	3560	C4*	C	A	176	101.539	38.596	-11.348	1.00	56.91	A16S
ATOM	3561	O4*	C	A	176	101.272	37.882	-10.117	1.00	56.91	A16S
ATOM	3562	C1*	C	A	176	99.923	37.459	-10.096	1.00	56.91	A16S
ATOM	3563	N1	C	A	176	99.271	38.009	-8.898	1.00	72.82	A16S
ATOM	3564	C6	C	A	176	99.907	38.923	-8.108	1.00	72.82	A16S
ATOM	3565	C2	C	A	176	97.978	37.581	-8.580	1.00	72.82	A16S
ATOM	3566	O2	C	A	176	97.430	36.733	-9.308	1.00	72.82	A16S
ATOM	3567	N3	C	A	176	97.360	38.097	-7.494	1.00	72.82	A16S
ATOM	3568	C4	C	A	176	97.986	38.999	-6.739	1.00	72.82	A16S
ATOM	3569	N4	C	A	176	97.339	39.500	-5.694	1.00	72.82	A16S
ATOM	3570	C5	C	A	176	99.308	39.436	-7.028	1.00	72.82	A16S
ATOM	3571	C2*	C	A	176	99.267	37.906	-11.401	1.00	56.91	A16S
ATOM	3572	O2*	C	A	176	99.285	36.820	-12.301	1.00	56.91	A16S
ATOM	3573	C3*	C	A	176	100.177	39.046	-11.835	1.00	56.91	A16S
ATOM	3574	O3*	C	A	176	100.182	39.192	-13.241	1.00	56.91	A16S
ATOM	3575	P	C	A	177	99.024	40.046	-13.950	1.00	60.59	A16S
ATOM	3576	O1P	C	A	177	99.392	40.100	-15.389	1.00	62.83	A16S
ATOM	3577	O2P	C	A	177	98.789	41.306	-13.191	1.00	62.83	A16S
ATOM	3578	O5*	C	A	177	97.725	39.137	-13.830	1.00	60.59	A16S
ATOM	3579	C5*	C	A	177	97.586	37.969	-14.656	1.00	60.59	A16S
ATOM	3580	C4*	C	A	177	96.259	37.295	-14.415	1.00	60.59	A16S
ATOM	3581	O4*	C	A	177	96.166	36.884	-13.028	1.00	60.59	A16S
ATOM	3582	C1*	C	A	177	94.821	36.976	-12.596	1.00	60.59	A16S
ATOM	3583	N1	C	A	177	94.754	37.929	-11.483	1.00	62.83	A16S
ATOM	3584	C6	C	A	177	95.772	38.809	-11.256	1.00	62.83	A16S
ATOM	3585	C2	C	A	177	93.625	37.924	-10.654	1.00	62.83	A16S
ATOM	3586	O2	C	A	177	92.710	37.119	-10.883	1.00	62.83	A16S
ATOM	3587	N3	C	A	177	93.559	38.797	-9.629	1.00	62.83	A16S
ATOM	3588	C4	C	A	177	94.564	39.651	-9.416	1.00	62.83	A16S
ATOM	3589	N4	C	A	177	94.464	40.496	-8.388	1.00	62.83	A16S
ATOM	3590	C5	C	A	177	95.718	39.678	-10.246	1.00	62.83	A16S
ATOM	3591	C2*	C	A	177	93.978	37.432	-13.785	1.00	60.59	A16S
ATOM	3592	O2*	C	A	177	93.424	36.281	-14.396	1.00	60.59	A16S
ATOM	3593	C3*	C	A	177	95.021	38.139	-14.644	1.00	60.59	A16S
ATOM	3594	O3*	C	A	177	94.662	38.179	-16.016	1.00	60.59	A16S
ATOM	3595	P	C	A	178	93.818	39.429	-16.574	1.00	78.16	A16S
ATOM	3596	O1P	C	A	178	93.587	39.194	-18.032	1.00	74.73	A16S
ATOM	3597	O2P	C	A	178	94.478	40.687	-16.120	1.00	74.73	A16S
ATOM	3598	O5*	C	A	178	92.411	39.311	-15.832	1.00	78.16	A16S
ATOM	3599	C5*	C	A	178	91.484	38.270	-16.186	1.00	78.16	A16S
ATOM	3600	C4*	C	A	178	90.239	38.361	-15.343	1.00	78.16	A16S
ATOM	3601	O4*	C	A	178	90.561	38.121	-13.953	1.00	78.16	A16S
ATOM	3602	C1*	C	A	178	89.618	38.791	-13.136	1.00	78.16	A16S
ATOM	3603	N1	C	A	178	90.307	39.623	-12.140	1.00	74.73	A16S
ATOM	3604	C6	C	A	178	91.607	40.017	-12.305	1.00	74.73	A16S
ATOM	3605	C2	C	A	178	89.581	40.038	-11.022	1.00	74.73	A16S
ATOM	3606	O2	C	A	178	88.421	39.619	-10.875	1.00	74.73	A16S
ATOM	3607	N3	C	A	178	90.156	40.880	-10.134	1.00	74.73	A16S
ATOM	3608	C4	C	A	178	91.407	41.299	-10.326	1.00	74.73	A16S
ATOM	3609	N4	C	A	178	91.914	42.176	-9.451	1.00	74.73	A16S
ATOM	3610	C5	C	A	178	92.190	40.850	-11.431	1.00	74.73	A16S
ATOM	3611	C2*	C	A	178	88.723	39.644	-14.035	1.00	78.16	A16S
ATOM	3612	O2*	C	A	178	87.482	39.000	-14.186	1.00	78.16	A16S

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ATOM	3613	C3*	C	A	178	89.526	39.702	-15.327	1.00	78.16	A16S
ATOM	3614	O3*	C	A	178	88.662	39.835	-16.442	1.00	78.16	A16S
ATOM	3615	P	A	A	179	88.202	41.300	-16.923	1.00	65.61	A16S
ATOM	3616	O1P	A	A	179	87.280	41.101	-18.078	1.00	89.35	A16S
ATOM	3617	O2P	A	A	179	89.421	42.136	-17.090	1.00	89.35	A16S
ATOM	3618	O5*	A	A	179	87.373	41.885	-15.691	1.00	65.61	A16S
ATOM	3619	C5*	A	A	179	86.080	41.372	-15.372	1.00	65.61	A16S
ATOM	3620	C4*	A	A	179	85.518	42.083	-14.171	1.00	65.61	A16S
ATOM	3621	O4*	A	A	179	86.394	41.895	-13.032	1.00	65.61	A16S
ATOM	3622	C1*	A	A	179	86.157	42.932	-12.099	1.00	65.61	A16S
ATOM	3623	N9	A	A	179	87.424	43.413	-11.546	1.00	89.35	A16S
ATOM	3624	C4	A	A	179	87.530	44.387	-10.584	1.00	89.35	A16S
ATOM	3625	N3	A	A	179	86.527	45.057	-9.995	1.00	89.35	A16S
ATOM	3626	C2	A	A	179	87.003	45.930	-9.120	1.00	89.35	A16S
ATOM	3627	N1	A	A	179	88.269	46.191	-8.793	1.00	89.35	A16S
ATOM	3628	C6	A	A	179	89.251	45.496	-9.400	1.00	89.35	A16S
ATOM	3629	N6	A	A	179	90.514	45.751	-9.064	1.00	89.35	A16S
ATOM	3630	C5	A	A	179	88.881	44.542	-10.348	1.00	89.35	A16S
ATOM	3631	N7	A	A	179	89.620	43.679	-11.142	1.00	89.35	A16S
ATOM	3632	C8	A	A	179	88.711	43.033	-11.834	1.00	89.35	A16S
ATOM	3633	C2*	A	A	179	85.331	44.016	-12.793	1.00	65.61	A16S
ATOM	3634	O2*	A	A	179	84.030	43.978	-12.252	1.00	65.61	A16S
ATOM	3635	C3*	A	A	179	85.405	43.594	-14.262	1.00	65.61	A16S
ATOM	3636	O3*	A	A	179	84.239	43.984	-14.975	1.00	65.61	A16S
ATOM	3637	P	U	A	180	84.129	45.473	-15.568	1.00	68.68	A16S
ATOM	3638	O1P	U	A	180	82.865	45.535	-16.352	1.00	79.62	A16S
ATOM	3639	O2P	U	A	180	85.415	45.791	-16.226	1.00	79.62	A16S
ATOM	3640	O5*	U	A	180	83.974	46.408	-14.286	1.00	68.68	A16S
ATOM	3641	C5*	U	A	180	82.734	46.437	-13.565	1.00	68.68	A16S
ATOM	3642	C4*	U	A	180	82.798	47.420	-12.425	1.00	68.68	A16S
ATOM	3643	O4*	U	A	180	83.733	46.964	-11.420	1.00	68.68	A16S
ATOM	3644	C1*	U	A	180	84.404	48.076	-10.854	1.00	68.68	A16S
ATOM	3645	N1	U	A	180	85.824	47.965	-11.204	1.00	79.62	A16S
ATOM	3646	C6	U	A	180	86.232	47.159	-12.242	1.00	79.62	A16S
ATOM	3647	C2	U	A	180	86.729	48.701	-10.474	1.00	79.62	A16S
ATOM	3648	O2	U	A	180	86.404	49.417	-9.537	1.00	79.62	A16S
ATOM	3649	N3	U	A	180	88.033	48.568	-10.880	1.00	79.62	A16S
ATOM	3650	C4	U	A	180	88.509	47.786	-11.920	1.00	79.62	A16S
ATOM	3651	O4	U	A	180	89.710	47.813	-12.205	1.00	79.62	A16S
ATOM	3652	C5	U	A	180	87.505	47.048	-12.611	1.00	79.62	A16S
ATOM	3653	C2*	U	A	180	83.801	49.343	-11.461	1.00	68.68	A16S
ATOM	3654	O2*	U	A	180	82.799	49.866	-10.606	1.00	68.68	A16S
ATOM	3655	C3*	U	A	180	83.268	48.813	-12.786	1.00	68.68	A16S
ATOM	3656	O3*	U	A	180	82.210	49.596	-13.289	1.00	68.68	A16S
ATOM	3657	P	G	A	181	82.450	50.477	-14.599	1.00	80.44	A16S
ATOM	3658	O1P	G	A	181	81.331	51.450	-14.651	1.00	64.12	A16S
ATOM	3659	O2P	G	A	181	82.682	49.544	-15.746	1.00	64.12	A16S
ATOM	3660	O5*	G	A	181	83.793	51.276	-14.271	1.00	80.44	A16S
ATOM	3661	C5*	G	A	181	83.845	52.219	-13.172	1.00	80.44	A16S
ATOM	3662	C4*	G	A	181	84.848	53.320	-13.457	1.00	80.44	A16S
ATOM	3663	O4*	G	A	181	86.209	52.851	-13.241	1.00	80.44	A16S
ATOM	3664	C1*	G	A	181	87.029	53.180	-14.353	1.00	80.44	A16S
ATOM	3665	N9	G	A	181	88.005	52.097	-14.509	1.00	64.12	A16S
ATOM	3666	C4	G	A	181	89.252	52.002	-13.915	1.00	64.12	A16S
ATOM	3667	N3	G	A	181	89.811	52.903	-13.083	1.00	64.12	A16S
ATOM	3668	C2	G	A	181	91.028	52.530	-12.691	1.00	64.12	A16S
ATOM	3669	N2	G	A	181	91.747	53.326	-11.867	1.00	64.12	A16S
ATOM	3670	N1	G	A	181	91.634	51.359	-13.075	1.00	64.12	A16S
ATOM	3671	C6	G	A	181	91.075	50.413	-13.918	1.00	64.12	A16S
ATOM	3672	O6	G	A	181	91.706	49.380	-14.188	1.00	64.12	A16S
ATOM	3673	C5	G	A	181	89.780	50.807	-14.359	1.00	64.12	A16S
ATOM	3674	N7	G	A	181	88.895	50.166	-15.208	1.00	64.12	A16S
ATOM	3675	C8	G	A	181	87.861	50.963	-15.267	1.00	64.12	A16S
ATOM	3676	C2*	G	A	181	86.097	53.422	-15.554	1.00	80.44	A16S
ATOM	3677	O2*	G	A	181	86.657	54.365	-16.446	1.00	80.44	A16S
ATOM	3678	C3*	G	A	181	84.820	53.899	-14.859	1.00	80.44	A16S
ATOM	3679	O3*	G	A	181	83.930	54.984	-15.206	1.00	80.44	A16S
ATOM	3680	P	U	A	182	84.456	56.511	-15.259	1.00	79.02	A16S
ATOM	3681	O1P	U	A	182	83.920	57.133	-16.498	1.00	91.87	A16S
ATOM	3682	O2P	U	A	182	85.914	56.525	-15.016	1.00	91.87	A16S
ATOM	3683	O5*	U	A	182	83.740	57.213	-14.015	1.00	79.02	A16S
ATOM	3684	C5*	U	A	182	84.132	56.890	-12.666	1.00	79.02	A16S
ATOM	3685	C4*	U	A	182	84.251	58.146	-11.816	1.00	79.02	A16S
ATOM	3686	O4*	U	A	182	84.927	57.770	-10.580	1.00	79.02	A16S
ATOM	3687	C1*	U	A	182	85.944	58.709	-10.272	1.00	79.02	A16S
ATOM	3688	N1	U	A	182	87.241	58.032	-10.462	1.00	91.87	A16S
ATOM	3689	C6	U	A	182	87.406	57.074	-11.445	1.00	91.87	A16S

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ATOM	3690	C2	U	A	182	88.293	58.372	-9.631	1.00	91.87	A16S
ATOM	3691	O2	U	A	182	88.208	59.227	-8.771	1.00	91.87	A16S
ATOM	3692	N3	U	A	182	89.458	57.678	-9.856	1.00	91.87	A16S
ATOM	3693	C4	U	A	182	89.682	56.710	-10.818	1.00	91.87	A16S
ATOM	3694	O4	U	A	182	90.794	56.191	-10.912	1.00	91.87	A16S
ATOM	3695	C5	U	A	182	88.557	56.425	-11.644	1.00	91.87	A16S
ATOM	3696	C2*	U	A	182	85.738	59.920	-11.189	1.00	79.02	A16S
ATOM	3697	O2*	U	A	182	84.918	60.883	-10.552	1.00	79.02	A16S
ATOM	3698	C3*	U	A	182	85.096	59.269	-12.414	1.00	79.02	A16S
ATOM	3699	O3*	U	A	182	84.299	60.185	-13.176	1.00	79.02	A16S
ATOM	3700	P	G	A	183	84.974	61.056	-14.355	1.00	84.17	A16S
ATOM	3701	O1P	G	A	183	84.298	62.375	-14.370	1.00	60.31	A16S
ATOM	3702	O2P	G	A	183	85.050	60.254	-15.611	1.00	60.31	A16S
ATOM	3703	O5*	G	A	183	86.454	61.310	-13.837	1.00	84.17	A16S
ATOM	3704	C5*	G	A	183	87.562	61.300	-14.746	1.00	84.17	A16S
ATOM	3705	C4*	G	A	183	88.820	60.898	-14.022	1.00	84.17	A16S
ATOM	3706	O4*	G	A	183	88.656	59.571	-13.455	1.00	84.17	A16S
ATOM	3707	C1*	G	A	183	89.865	58.842	-13.579	1.00	84.17	A16S
ATOM	3708	N9	G	A	183	89.609	57.710	-14.468	1.00	60.31	A16S
ATOM	3709	C4	G	A	183	90.444	56.645	-14.727	1.00	60.31	A16S
ATOM	3710	N3	G	A	183	91.653	56.428	-14.170	1.00	60.31	A16S
ATOM	3711	C2	G	A	183	92.234	55.336	-14.653	1.00	60.31	A16S
ATOM	3712	N2	G	A	183	93.455	54.966	-14.194	1.00	60.31	A16S
ATOM	3713	N1	G	A	183	91.666	54.528	-15.613	1.00	60.31	A16S
ATOM	3714	C6	G	A	183	90.419	54.735	-16.193	1.00	60.31	A16S
ATOM	3715	O6	G	A	183	89.998	53.954	-17.046	1.00	60.31	A16S
ATOM	3716	C5	G	A	183	89.790	55.891	-15.681	1.00	60.31	A16S
ATOM	3717	N7	G	A	183	88.560	56.449	-15.993	1.00	60.31	A16S
ATOM	3718	C8	G	A	183	88.493	57.519	-15.246	1.00	60.31	A16S
ATOM	3719	C2*	G	A	183	90.914	59.804	-14.148	1.00	84.17	A16S
ATOM	3720	O2*	G	A	183	91.606	60.433	-13.086	1.00	84.17	A16S
ATOM	3721	C3*	G	A	183	90.042	60.793	-14.911	1.00	84.17	A16S
ATOM	3722	O3*	G	A	183	90.650	62.070	-15.068	1.00	84.17	A16S
ATOM	3723	P	G	A	184	91.218	62.519	-16.508	1.00	71.62	A16S
ATOM	3724	O1P	G	A	184	91.581	63.955	-16.325	1.00	63.30	A16S
ATOM	3725	O2P	G	A	184	90.266	62.126	-17.595	1.00	63.30	A16S
ATOM	3726	O5*	G	A	184	92.553	61.655	-16.693	1.00	71.62	A16S
ATOM	3727	C5*	G	A	184	93.696	61.851	-15.827	1.00	71.62	A16S
ATOM	3728	C4*	G	A	184	94.644	60.679	-15.926	1.00	71.62	A16S
ATOM	3729	O4*	G	A	184	93.926	59.467	-15.576	1.00	71.62	A16S
ATOM	3730	C1*	G	A	184	94.417	58.373	-16.343	1.00	71.62	A16S
ATOM	3731	N9	G	A	184	93.352	57.873	-17.213	1.00	63.30	A16S
ATOM	3732	C4	G	A	184	93.345	56.659	-17.868	1.00	63.30	A16S
ATOM	3733	N3	G	A	184	94.311	55.716	-17.802	1.00	63.30	A16S
ATOM	3734	C2	G	A	184	94.036	54.668	-18.559	1.00	63.30	A16S
ATOM	3735	N2	G	A	184	94.904	53.647	-18.621	1.00	63.30	A16S
ATOM	3736	N1	G	A	184	92.896	54.549	-19.312	1.00	63.30	A16S
ATOM	3737	C6	G	A	184	91.886	55.505	-19.389	1.00	63.30	A16S
ATOM	3738	O6	G	A	184	90.890	55.295	-20.091	1.00	63.30	A16S
ATOM	3739	C5	G	A	184	92.177	56.641	-18.592	1.00	63.30	A16S
ATOM	3740	N7	G	A	184	91.460	57.814	-18.401	1.00	63.30	A16S
ATOM	3741	C8	G	A	184	92.189	58.511	-17.571	1.00	63.30	A16S
ATOM	3742	C2*	G	A	184	95.559	58.898	-17.202	1.00	71.62	A16S
ATOM	3743	O2*	G	A	184	96.796	58.656	-16.563	1.00	71.62	A16S
ATOM	3744	C3*	G	A	184	95.195	60.367	-17.304	1.00	71.62	A16S
ATOM	3745	O3*	G	A	184	96.299	61.141	-17.689	1.00	71.62	A16S
ATOM	3746	P	A	A	185	96.541	61.409	-19.255	1.00	58.71	A16S
ATOM	3747	O1P	A	A	185	97.490	62.558	-19.350	1.00	56.25	A16S
ATOM	3748	O2P	A	A	185	95.213	61.486	-19.932	1.00	56.25	A16S
ATOM	3749	O5*	A	A	185	97.231	60.076	-19.796	1.00	58.71	A16S
ATOM	3750	C5*	A	A	185	98.514	59.660	-19.307	1.00	58.71	A16S
ATOM	3751	C4*	A	A	185	98.895	58.342	-19.918	1.00	58.71	A16S
ATOM	3752	O4*	A	A	185	97.961	57.321	-19.489	1.00	58.71	A16S
ATOM	3753	C1*	A	A	185	97.737	56.404	-20.544	1.00	58.71	A16S
ATOM	3754	N9	A	A	185	96.316	56.434	-20.890	1.00	56.25	A16S
ATOM	3755	C4	A	A	185	95.671	55.568	-21.734	1.00	56.25	A16S
ATOM	3756	N3	A	A	185	96.205	54.532	-22.395	1.00	56.25	A16S
ATOM	3757	C2	A	A	185	95.282	53.925	-23.134	1.00	56.25	A16S
ATOM	3758	N1	A	A	185	93.986	54.216	-23.273	1.00	56.25	A16S
ATOM	3759	C6	A	A	185	93.485	55.264	-22.591	1.00	56.25	A16S
ATOM	3760	N6	A	A	185	92.194	55.555	-22.731	1.00	56.25	A16S
ATOM	3761	C5	A	A	185	94.359	55.988	-21.777	1.00	56.25	A16S
ATOM	3762	N7	A	A	185	94.174	57.096	-20.971	1.00	56.25	A16S
ATOM	3763	C8	A	A	185	95.361	57.319	-20.466	1.00	56.25	A16S
ATOM	3764	C2*	A	A	185	98.622	56.827	-21.712	1.00	58.71	A16S
ATOM	3765	O2*	A	A	185	99.837	56.126	-21.631	1.00	58.71	A16S
ATOM	3766	C3*	A	A	185	98.820	58.304	-21.426	1.00	58.71	A16S

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ATOM	3767	O3*	A	A 185	99.993	58.821	-22.017	1.00	58.71	A16S
ATOM	3768	P	C	A 186	99.873	59.693	-23.360	1.00	43.14	A16S
ATOM	3769	O1P	C	A 186	101.205	60.324	-23.576	1.00	56.53	A16S
ATOM	3770	O2P	C	A 186	98.651	60.550	-23.230	1.00	56.53	A16S
ATOM	3771	O5*	C	A 186	99.626	58.612	-24.501	1.00	43.14	A16S
ATOM	3772	C5*	C	A 186	100.614	57.620	-24.747	1.00	43.14	A16S
ATOM	3773	C4*	C	A 186	100.121	56.624	-25.750	1.00	43.14	A16S
ATOM	3774	O4*	C	A 186	99.084	55.799	-25.174	1.00	43.14	A16S
ATOM	3775	C1*	C	A 186	98.186	55.398	-26.197	1.00	43.14	A16S
ATOM	3776	N1	C	A 186	96.836	55.881	-25.857	1.00	56.53	A16S
ATOM	3777	C6	C	A 186	96.659	56.843	-24.905	1.00	56.53	A16S
ATOM	3778	C2	C	A 186	95.729	55.350	-26.541	1.00	56.53	A16S
ATOM	3779	O2	C	A 186	95.906	54.449	-27.383	1.00	56.53	A16S
ATOM	3780	N3	C	A 186	94.501	55.828	-26.266	1.00	56.53	A16S
ATOM	3781	C4	C	A 186	94.349	56.783	-25.351	1.00	56.53	A16S
ATOM	3782	N4	C	A 186	93.122	57.242	-25.127	1.00	56.53	A16S
ATOM	3783	C5	C	A 186	95.448	57.316	-24.625	1.00	56.53	A16S
ATOM	3784	C2*	C	A 186	98.687	55.993	-27.517	1.00	43.14	A16S
ATOM	3785	O2*	C	A 186	99.507	55.045	-28.173	1.00	43.14	A16S
ATOM	3786	C3*	C	A 186	99.506	57.175	-27.023	1.00	43.14	A16S
ATOM	3787	O3*	C	A 186	100.507	57.517	-27.957	1.00	43.14	A16S
ATOM	3788	P	C	A 187	100.220	58.655	-29.045	1.00	60.14	A16S
ATOM	3789	O1P	C	A 187	101.562	58.984	-29.594	1.00	56.24	A16S
ATOM	3790	O2P	C	A 187	99.388	59.728	-28.436	1.00	56.24	A16S
ATOM	3791	O5*	C	A 187	99.356	57.894	-30.145	1.00	60.14	A16S
ATOM	3792	C5*	C	A 187	99.908	56.770	-30.845	1.00	60.14	A16S
ATOM	3793	C4*	C	A 187	98.878	56.153	-31.758	1.00	60.14	A16S
ATOM	3794	O4*	C	A 187	97.869	55.462	-30.983	1.00	60.14	A16S
ATOM	3795	C1*	C	A 187	96.621	55.547	-31.645	1.00	60.14	A16S
ATOM	3796	N1	C	A 187	95.656	56.193	-30.747	1.00	56.24	A16S
ATOM	3797	C6	C	A 187	96.073	56.909	-29.660	1.00	56.24	A16S
ATOM	3798	C2	C	A 187	94.290	56.075	-31.033	1.00	56.24	A16S
ATOM	3799	O2	C	A 187	93.942	55.391	-32.016	1.00	56.24	A16S
ATOM	3800	N3	C	A 187	93.387	56.704	-30.235	1.00	56.24	A16S
ATOM	3801	C4	C	A 187	93.811	57.416	-29.185	1.00	56.24	A16S
ATOM	3802	N4	C	A 187	92.901	58.031	-28.429	1.00	56.24	A16S
ATOM	3803	C5	C	A 187	95.193	57.530	-28.862	1.00	56.24	A16S
ATOM	3804	C2*	C	A 187	96.820	56.340	-32.937	1.00	60.14	A16S
ATOM	3805	O2*	C	A 187	96.921	55.447	-34.030	1.00	60.14	A16S
ATOM	3806	C3*	C	A 187	98.098	57.119	-32.630	1.00	60.14	A16S
ATOM	3807	O3*	C	A 187	98.835	57.478	-33.797	1.00	60.14	A16S
ATOM	3808	P	C	A 188	98.768	58.990	-34.348	1.00	71.33	A16S
ATOM	3809	O1P	C	A 188	99.683	59.023	-35.523	1.00	61.65	A16S
ATOM	3810	O2P	C	A 188	98.984	59.940	-33.210	1.00	61.65	A16S
ATOM	3811	O5*	C	A 188	97.266	59.133	-34.873	1.00	71.33	A16S
ATOM	3812	C5*	C	A 188	96.799	58.287	-35.948	1.00	71.33	A16S
ATOM	3813	C4*	C	A 188	95.304	58.413	-36.146	1.00	71.33	A16S
ATOM	3814	O4*	C	A 188	94.588	57.806	-35.042	1.00	71.33	A16S
ATOM	3815	C1*	C	A 188	93.366	58.490	-34.843	1.00	71.33	A16S
ATOM	3816	N1	C	A 188	93.385	59.108	-33.505	1.00	61.65	A16S
ATOM	3817	C6	C	A 188	94.564	59.395	-32.876	1.00	61.65	A16S
ATOM	3818	C2	C	A 188	92.164	59.403	-32.881	1.00	61.65	A16S
ATOM	3819	O2	C	A 188	91.107	59.149	-33.479	1.00	61.65	A16S
ATOM	3820	N3	C	A 188	92.168	59.960	-31.645	1.00	61.65	A16S
ATOM	3821	C4	C	A 188	93.323	60.221	-31.036	1.00	61.65	A16S
ATOM	3822	N4	C	A 188	93.279	60.748	-29.810	1.00	61.65	A16S
ATOM	3823	C5	C	A 188	94.579	59.946	-31.653	1.00	61.65	A16S
ATOM	3824	C2*	C	A 188	93.250	59.550	-35.934	1.00	71.33	A16S
ATOM	3825	O2*	C	A 188	92.561	59.004	-37.042	1.00	71.33	A16S
ATOM	3826	C3*	C	A 188	94.713	59.806	-36.257	1.00	71.33	A16S
ATOM	3827	O3*	C	A 188	94.875	60.386	-37.544	1.00	71.33	A16S
ATOM	3828	P	G	A 189	94.937	61.991	-37.684	1.00	76.53	A16S
ATOM	3829	O1P	G	A 189	95.322	62.257	-39.099	1.00	65.93	A16S
ATOM	3830	O2P	G	A 189	95.761	62.561	-36.574	1.00	65.93	A16S
ATOM	3831	O5*	G	A 189	93.431	62.450	-37.426	1.00	76.53	A16S
ATOM	3832	C5*	G	A 189	92.370	62.011	-38.290	1.00	76.53	A16S
ATOM	3833	C4*	G	A 189	91.047	62.577	-37.832	1.00	76.53	A16S
ATOM	3834	O4*	G	A 189	90.598	61.906	-36.630	1.00	76.53	A16S
ATOM	3835	C1*	G	A 189	89.885	62.819	-35.815	1.00	76.53	A16S
ATOM	3836	N9	G	A 189	90.583	62.937	-34.543	1.00	65.93	A16S
ATOM	3837	C4	G	A 189	90.045	63.361	-33.354	1.00	65.93	A16S
ATOM	3838	N3	G	A 189	88.768	63.743	-33.155	1.00	65.93	A16S
ATOM	3839	C2	G	A 189	88.552	64.114	-31.899	1.00	65.93	A16S
ATOM	3840	N2	G	A 189	87.331	64.536	-31.520	1.00	65.93	A16S
ATOM	3841	N1	G	A 189	89.511	64.107	-30.917	1.00	65.93	A16S
ATOM	3842	C6	G	A 189	90.831	63.719	-31.095	1.00	65.93	A16S
ATOM	3843	O6	G	A 189	91.619	63.762	-30.137	1.00	65.93	A16S

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ATOM	3844	C5	G	A 189	91.080	63.316	-32.446	1.00	65.93	A16S
ATOM	3845	N7	G	A 189	92.246	62.868	-33.052	1.00	65.93	A16S
ATOM	3846	C8	G	A 189	91.904	62.656	-34.293	1.00	65.93	A16S
ATOM	3847	C2*	G	A 189	89.836	64.159	-36.547	1.00	76.53	A16S
ATOM	3848	O2*	G	A 189	88.624	64.257	-37.263	1.00	76.53	A16S
ATOM	3849	C3*	G	A 189	91.041	64.051	-37.468	1.00	76.53	A16S
ATOM	3850	O3*	G	A 189	90.910	64.879	-38.609	1.00	76.53	A16S
ATOM	3851	P	C	A 190	91.476	66.382	-38.564	1.00	80.19	A16S
ATOM	3852	O1P	C	A 190	91.371	66.899	-39.959	1.00	69.52	A16S
ATOM	3853	O2P	C	A 190	92.787	66.408	-37.859	1.00	69.52	A16S
ATOM	3854	O5*	C	A 190	90.432	67.153	-37.646	1.00	80.19	A16S
ATOM	3855	C5*	C	A 190	89.071	67.311	-38.064	1.00	80.19	A16S
ATOM	3856	C4*	C	A 190	88.263	67.910	-36.948	1.00	80.19	A16S
ATOM	3857	O4*	C	A 190	88.156	66.958	-35.856	1.00	80.19	A16S
ATOM	3858	C1*	C	A 190	88.173	67.648	-34.616	1.00	80.19	A16S
ATOM	3859	N1	C	A 190	89.347	67.207	-33.844	1.00	69.52	A16S
ATOM	3860	C6	C	A 190	90.447	66.686	-34.469	1.00	69.52	A16S
ATOM	3861	C2	C	A 190	89.336	67.364	-32.450	1.00	69.52	A16S
ATOM	3862	O2	C	A 190	88.304	67.791	-31.900	1.00	69.52	A16S
ATOM	3863	N3	C	A 190	90.445	67.043	-31.740	1.00	69.52	A16S
ATOM	3864	C4	C	A 190	91.526	66.572	-32.369	1.00	69.52	A16S
ATOM	3865	N4	C	A 190	92.608	66.301	-31.639	1.00	69.52	A16S
ATOM	3866	C5	C	A 190	91.547	66.361	-33.778	1.00	69.52	A16S
ATOM	3867	C2*	C	A 190	88.258	69.145	-34.922	1.00	80.19	A16S
ATOM	3868	O2*	C	A 190	86.969	69.729	-34.916	1.00	80.19	A16S
ATOM	3869	C3*	C	A 190	88.884	69.135	-36.307	1.00	80.19	A16S
ATOM	3870	O3*	C	A 190	88.625	70.317	-37.029	1.00	80.19	A16S
ATOM	3871	P	C	A 190A	89.666	71.533	-36.929	1.00	60.61	A16S
ATOM	3872	O1P	C	A 190A	89.382	72.487	-38.041	1.00	77.12	A16S
ATOM	3873	O2P	C	A 190A	91.030	70.947	-36.792	1.00	77.12	A16S
ATOM	3874	O5*	C	A 190A	89.281	72.248	-35.559	1.00	60.61	A16S
ATOM	3875	C5*	C	A 190A	88.002	72.869	-35.402	1.00	60.61	A16S
ATOM	3876	C4*	C	A 190A	87.787	73.251	-33.967	1.00	60.61	A16S
ATOM	3877	O4*	C	A 190A	87.889	72.068	-33.137	1.00	60.61	A16S
ATOM	3878	C1*	C	A 190A	88.482	72.404	-31.892	1.00	60.61	A16S
ATOM	3879	N1	C	A 190A	89.730	71.627	-31.736	1.00	77.12	A16S
ATOM	3880	C6	C	A 190A	90.339	71.043	-32.815	1.00	77.12	A16S
ATOM	3881	C2	C	A 190A	90.293	71.499	-30.455	1.00	77.12	A16S
ATOM	3882	O2	C	A 190A	89.723	72.036	-29.493	1.00	77.12	A16S
ATOM	3883	N3	C	A 190A	91.442	70.796	-30.300	1.00	77.12	A16S
ATOM	3884	C4	C	A 190A	92.026	70.231	-31.360	1.00	77.12	A16S
ATOM	3885	N4	C	A 190A	93.151	69.544	-31.162	1.00	77.12	A16S
ATOM	3886	C5	C	A 190A	91.478	70.345	-32.674	1.00	77.12	A16S
ATOM	3887	C2*	C	A 190A	88.732	73.911	-31.896	1.00	60.61	A16S
ATOM	3888	O2*	C	A 190A	87.652	74.581	-31.271	1.00	60.61	A16S
ATOM	3889	C3*	C	A 190A	88.825	74.188	-33.388	1.00	60.61	A16S
ATOM	3890	O3*	C	A 190A	88.565	75.531	-33.721	1.00	60.61	A16S
ATOM	3891	P	C	A 190B	89.796	76.510	-34.028	1.00	74.36	A16S
ATOM	3892	O1P	C	A 190B	89.248	77.690	-34.753	1.00	65.81	A16S
ATOM	3893	O2P	C	A 190B	90.899	75.716	-34.628	1.00	65.81	A16S
ATOM	3894	O5*	C	A 190B	90.261	76.976	-32.587	1.00	74.36	A16S
ATOM	3895	C5*	C	A 190B	89.333	77.614	-31.714	1.00	74.36	A16S
ATOM	3896	C4*	C	A 190B	89.915	77.718	-30.339	1.00	74.36	A16S
ATOM	3897	O4*	C	A 190B	90.054	76.391	-29.771	1.00	74.36	A16S
ATOM	3898	C1*	C	A 190B	91.206	76.347	-28.950	1.00	74.36	A16S
ATOM	3899	N1	C	A 190B	92.119	75.305	-29.459	1.00	65.81	A16S
ATOM	3900	C6	C	A 190B	92.055	74.867	-30.756	1.00	65.81	A16S
ATOM	3901	C2	C	A 190B	93.071	74.770	-28.582	1.00	65.81	A16S
ATOM	3902	O2	C	A 190B	93.106	75.187	-27.412	1.00	65.81	A16S
ATOM	3903	N3	C	A 190B	93.927	73.818	-29.030	1.00	65.81	A16S
ATOM	3904	C4	C	A 190B	93.855	73.399	-30.295	1.00	65.81	A16S
ATOM	3905	N4	C	A 190B	94.714	72.461	-30.688	1.00	65.81	A16S
ATOM	3906	C5	C	A 190B	92.896	73.925	-31.211	1.00	65.81	A16S
ATOM	3907	C2*	C	A 190B	91.845	77.736	-28.968	1.00	74.36	A16S
ATOM	3908	O2*	C	A 190B	91.430	78.487	-27.841	1.00	74.36	A16S
ATOM	3909	C3*	C	A 190B	91.314	78.298	-30.280	1.00	74.36	A16S
ATOM	3910	O3*	C	A 190B	91.324	79.717	-30.329	1.00	74.36	A16S
ATOM	3911	P	C	A 190C	92.714	80.485	-30.573	1.00	81.94	A16S
ATOM	3912	O1P	C	A 190C	92.463	81.953	-30.492	1.00	66.72	A16S
ATOM	3913	O2P	C	A 190C	93.379	79.911	-31.790	1.00	66.72	A16S
ATOM	3914	O5*	C	A 190C	93.533	80.094	-29.269	1.00	81.94	A16S
ATOM	3915	C5*	C	A 190C	94.940	80.241	-29.222	1.00	81.94	A16S
ATOM	3916	C4*	C	A 190C	95.521	79.294	-28.211	1.00	81.94	A16S
ATOM	3917	O4*	C	A 190C	95.044	77.952	-28.458	1.00	81.94	A16S
ATOM	3918	C1*	C	A 190C	96.120	77.037	-28.366	1.00	81.94	A16S
ATOM	3919	N1	C	A 190C	96.306	76.452	-29.710	1.00	66.72	A16S
ATOM	3920	C6	C	A 190C	95.552	76.895	-30.758	1.00	66.72	A16S

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ATOM	3921	C2	C	A	190C	97.234	75.411	-29.901	1.00	66.72	A16S
ATOM	3922	O2	C	A	190C	97.979	75.076	-28.968	1.00	66.72	A16S
ATOM	3923	N3	C	A	190C	97.301	74.805	-31.109	1.00	66.72	A16S
ATOM	3924	C4	C	A	190C	96.515	75.217	-32.107	1.00	66.72	A16S
ATOM	3925	N4	C	A	190C	96.575	74.558	-33.269	1.00	66.72	A16S
ATOM	3926	C5	C	A	190C	95.623	76.313	-31.959	1.00	66.72	A16S
ATOM	3927	C2*	C	A	190C	97.327	77.807	-27.824	1.00	81.94	A16S
ATOM	3928	O2*	C	A	190C	97.347	77.767	-26.409	1.00	81.94	A16S
ATOM	3929	C3*	C	A	190C	97.024	79.204	-28.326	1.00	81.94	A16S
ATOM	3930	O3*	C	A	190C	97.620	80.233	-27.580	1.00	81.94	A16S
ATOM	3931	P	U	A	190D	98.502	81.330	-28.340	1.00	70.77	A16S
ATOM	3932	O1P	U	A	190D	98.145	82.639	-27.737	1.00	72.74	A16S
ATOM	3933	O2P	U	A	190D	98.383	81.135	-29.828	1.00	72.74	A16S
ATOM	3934	O5*	U	A	190D	99.983	80.956	-27.889	1.00	70.77	A16S
ATOM	3935	C5*	U	A	190D	100.996	80.598	-28.851	1.00	70.77	A16S
ATOM	3936	C4*	U	A	190D	101.266	79.113	-28.799	1.00	70.77	A16S
ATOM	3937	O4*	U	A	190D	100.218	78.425	-29.529	1.00	70.77	A16S
ATOM	3938	C1*	U	A	190D	100.790	77.656	-30.562	1.00	70.77	A16S
ATOM	3939	N1	U	A	190D	99.890	77.670	-31.723	1.00	72.74	A16S
ATOM	3940	C6	U	A	190D	98.993	78.694	-31.931	1.00	72.74	A16S
ATOM	3941	C2	U	A	190D	99.974	76.599	-32.607	1.00	72.74	A16S
ATOM	3942	O2	U	A	190D	100.754	75.669	-32.460	1.00	72.74	A16S
ATOM	3943	N3	U	A	190D	99.107	76.654	-33.669	1.00	72.74	A16S
ATOM	3944	C4	U	A	190D	98.176	77.639	-33.930	1.00	72.74	A16S
ATOM	3945	O4	U	A	190D	97.407	77.501	-34.886	1.00	72.74	A16S
ATOM	3946	C5	U	A	190D	98.154	78.715	-32.974	1.00	72.74	A16S
ATOM	3947	C2*	U	A	190D	102.159	78.262	-30.840	1.00	70.77	A16S
ATOM	3948	O2*	U	A	190D	103.020	77.326	-31.453	1.00	70.77	A16S
ATOM	3949	C3*	U	A	190D	102.581	78.690	-29.440	1.00	70.77	A16S
ATOM	3950	O3*	U	A	190D	103.113	77.595	-28.692	1.00	70.77	A16S
ATOM	3951	P	U	A	190E	104.708	77.387	-28.585	1.00	57.16	A16S
ATOM	3952	O1P	U	A	190E	104.989	76.894	-27.208	1.00	69.27	A16S
ATOM	3953	O2P	U	A	190E	105.431	78.582	-29.099	1.00	69.27	A16S
ATOM	3954	O5*	U	A	190E	104.995	76.213	-29.607	1.00	57.16	A16S
ATOM	3955	C5*	U	A	190E	104.693	74.885	-29.247	1.00	57.16	A16S
ATOM	3956	C4*	U	A	190E	105.254	73.946	-30.261	1.00	57.16	A16S
ATOM	3957	O4*	U	A	190E	106.533	74.460	-30.719	1.00	57.16	A16S
ATOM	3958	C1*	U	A	190E	107.542	73.520	-30.445	1.00	57.16	A16S
ATOM	3959	N1	U	A	190E	108.750	74.234	-30.012	1.00	69.27	A16S
ATOM	3960	C6	U	A	190E	108.679	75.275	-29.121	1.00	69.27	A16S
ATOM	3961	C2	U	A	190E	109.970	73.812	-30.521	1.00	69.27	A16S
ATOM	3962	O2	U	A	190E	110.081	72.906	-31.333	1.00	69.27	A16S
ATOM	3963	N3	U	A	190E	111.059	74.493	-30.045	1.00	69.27	A16S
ATOM	3964	C4	U	A	190E	111.054	75.534	-29.142	1.00	69.27	A16S
ATOM	3965	O4	U	A	190E	112.121	76.054	-28.813	1.00	69.27	A16S
ATOM	3966	C5	U	A	190E	109.756	75.919	-28.679	1.00	69.27	A16S
ATOM	3967	C2*	U	A	190E	106.987	72.617	-29.345	1.00	57.16	A16S
ATOM	3968	O2*	U	A	190E	107.656	71.378	-29.323	1.00	57.16	A16S
ATOM	3969	C3*	U	A	190E	105.499	72.564	-29.681	1.00	57.16	A16S
ATOM	3970	O3*	U	A	190E	105.202	71.550	-30.645	1.00	57.16	A16S
ATOM	3971	P	G	A	190F	103.942	70.568	-30.419	1.00	57.37	A16S
ATOM	3972	O1P	G	A	190F	104.263	69.280	-31.100	1.00	60.35	A16S
ATOM	3973	O2P	G	A	190F	102.714	71.321	-30.808	1.00	60.35	A16S
ATOM	3974	O5*	G	A	190F	103.912	70.301	-28.843	1.00	57.37	A16S
ATOM	3975	C5*	G	A	190F	102.749	69.709	-28.209	1.00	57.37	A16S
ATOM	3976	C4*	G	A	190F	103.164	68.862	-27.027	1.00	57.37	A16S
ATOM	3977	O4*	G	A	190F	104.070	67.829	-27.488	1.00	57.37	A16S
ATOM	3978	C1*	G	A	190F	105.285	67.929	-26.783	1.00	57.37	A16S
ATOM	3979	N9	G	A	190F	106.366	67.515	-27.662	1.00	60.35	A16S
ATOM	3980	C4	G	A	190F	107.432	66.740	-27.293	1.00	60.35	A16S
ATOM	3981	N3	G	A	190F	107.678	66.275	-26.049	1.00	60.35	A16S
ATOM	3982	C2	G	A	190F	108.749	65.512	-26.019	1.00	60.35	A16S
ATOM	3983	N2	G	A	190F	109.129	64.946	-24.873	1.00	60.35	A16S
ATOM	3984	N1	G	A	190F	109.527	65.238	-27.117	1.00	60.35	A16S
ATOM	3985	C6	G	A	190F	109.290	65.710	-28.405	1.00	60.35	A16S
ATOM	3986	O6	G	A	190F	110.044	65.392	-29.332	1.00	60.35	A16S
ATOM	3987	C5	G	A	190F	108.145	66.524	-28.454	1.00	60.35	A16S
ATOM	3988	N7	G	A	190F	107.557	67.185	-29.526	1.00	60.35	A16S
ATOM	3989	C8	G	A	190F	106.510	67.768	-29.007	1.00	60.35	A16S
ATOM	3990	C2*	G	A	190F	105.362	69.357	-26.262	1.00	57.37	A16S
ATOM	3991	O2*	G	A	190F	106.235	69.414	-25.159	1.00	57.37	A16S
ATOM	3992	C3*	G	A	190F	103.898	69.612	-25.915	1.00	57.37	A16S
ATOM	3993	O3*	G	A	190F	103.646	68.975	-24.654	1.00	57.37	A16S
ATOM	3994	P	G	A	190G	102.145	68.844	-24.088	1.00	63.47	A16S
ATOM	3995	O1P	G	A	190G	102.261	68.147	-22.772	1.00	52.04	A16S
ATOM	3996	O2P	G	A	190G	101.292	68.256	-25.168	1.00	52.04	A16S
ATOM	3997	O5*	G	A	190G	101.676	70.339	-23.801	1.00	63.47	A16S

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ATOM	3998	C5*	G	A	190G	102.178	71.071	-22.660	1.00	63.47	A16S
ATOM	3999	C4*	G	A	190G	101.278	72.247	-22.362	1.00	63.47	A16S
ATOM	4000	O4*	G	A	190G	101.275	73.157	-23.494	1.00	63.47	A16S
ATOM	4001	C1*	G	A	190G	99.949	73.569	-23.786	1.00	63.47	A16S
ATOM	4002	N9	G	A	190G	99.549	72.931	-25.038	1.00	52.04	A16S
ATOM	4003	C4	G	A	190G	98.383	73.147	-25.723	1.00	52.04	A16S
ATOM	4004	N3	G	A	190G	97.391	73.974	-25.343	1.00	52.04	A16S
ATOM	4005	C2	G	A	190G	96.395	73.981	-26.214	1.00	52.04	A16S
ATOM	4006	N2	G	A	190G	95.328	74.752	-25.983	1.00	52.04	A16S
ATOM	4007	N1	G	A	190G	96.375	73.232	-27.375	1.00	52.04	A16S
ATOM	4008	C6	G	A	190G	97.391	72.375	-27.791	1.00	52.04	A16S
ATOM	4009	O6	G	A	190G	97.285	71.762	-28.864	1.00	52.04	A16S
ATOM	4010	C5	G	A	190G	98.465	72.352	-26.852	1.00	52.04	A16S
ATOM	4011	N7	G	A	190G	99.653	71.634	-26.862	1.00	52.04	A16S
ATOM	4012	C8	G	A	190G	100.261	72.005	-25.768	1.00	52.04	A16S
ATOM	4013	C2*	G	A	190G	99.072	73.107	-22.630	1.00	63.47	A16S
ATOM	4014	O2*	G	A	190G	99.007	74.133	-21.661	1.00	63.47	A16S
ATOM	4015	C3*	G	A	190G	99.823	71.861	-22.179	1.00	63.47	A16S
ATOM	4016	O3*	G	A	190G	99.557	71.464	-20.847	1.00	63.47	A16S
ATOM	4017	P	G	A	190H	98.670	70.151	-20.583	1.00	76.16	A16S
ATOM	4018	O1P	G	A	190H	98.792	69.902	-19.114	1.00	58.84	A16S
ATOM	4019	O2P	G	A	190H	99.090	69.086	-21.553	1.00	58.84	A16S
ATOM	4020	O5*	G	A	190H	97.182	70.614	-20.962	1.00	76.16	A16S
ATOM	4021	C5*	G	A	190H	96.557	71.727	-20.281	1.00	76.16	A16S
ATOM	4022	C4*	G	A	190H	95.262	72.143	-20.962	1.00	76.16	A16S
ATOM	4023	O4*	G	A	190H	95.530	72.751	-22.254	1.00	76.16	A16S
ATOM	4024	C1*	G	A	190H	94.412	72.558	-23.107	1.00	76.16	A16S
ATOM	4025	N9	G	A	190H	94.812	71.780	-24.273	1.00	58.84	A16S
ATOM	4026	C4	G	A	190H	94.079	71.636	-25.424	1.00	58.84	A16S
ATOM	4027	N3	G	A	190H	92.889	72.212	-25.677	1.00	58.84	A16S
ATOM	4028	C2	G	A	190H	92.421	71.878	-26.868	1.00	58.84	A16S
ATOM	4029	N2	G	A	190H	91.242	72.371	-27.280	1.00	58.84	A16S
ATOM	4030	N1	G	A	190H	93.073	71.040	-27.742	1.00	58.84	A16S
ATOM	4031	C6	G	A	190H	94.300	70.434	-27.499	1.00	58.84	A16S
ATOM	4032	O6	G	A	190H	94.801	69.692	-28.353	1.00	58.84	A16S
ATOM	4033	C5	G	A	190H	94.812	70.788	-26.223	1.00	58.84	A16S
ATOM	4034	N7	G	A	190H	95.990	70.414	-25.593	1.00	58.84	A16S
ATOM	4035	C8	G	A	190H	95.949	71.029	-24.442	1.00	58.84	A16S
ATOM	4036	C2*	G	A	190H	93.364	71.775	-22.328	1.00	76.16	A16S
ATOM	4037	O2*	G	A	190H	92.443	72.695	-21.787	1.00	76.16	A16S
ATOM	4038	C3*	G	A	190H	94.214	71.082	-21.270	1.00	76.16	A16S
ATOM	4039	O3*	G	A	190H	93.419	70.699	-20.152	1.00	76.16	A16S
ATOM	4040	P	G	A	190I	92.660	69.276	-20.173	1.00	71.16	A16S
ATOM	4041	O1P	G	A	190I	92.006	69.121	-18.841	1.00	69.68	A16S
ATOM	4042	O2P	G	A	190I	93.623	68.243	-20.649	1.00	69.68	A16S
ATOM	4043	O5*	G	A	190I	91.527	69.448	-21.285	1.00	71.16	A16S
ATOM	4044	C5*	G	A	190I	90.494	70.426	-21.101	1.00	71.16	A16S
ATOM	4045	C4*	G	A	190I	89.539	70.451	-22.272	1.00	71.16	A16S
ATOM	4046	O4*	G	A	190I	90.232	70.825	-23.486	1.00	71.16	A16S
ATOM	4047	C1*	G	A	190I	89.547	70.286	-24.602	1.00	71.16	A16S
ATOM	4048	N9	G	A	190I	90.463	69.461	-25.374	1.00	69.68	A16S
ATOM	4049	C4	G	A	190I	90.295	69.087	-26.681	1.00	69.68	A16S
ATOM	4050	N3	G	A	190I	89.256	69.427	-27.471	1.00	69.68	A16S
ATOM	4051	C2	G	A	190I	89.360	68.898	-28.676	1.00	69.68	A16S
ATOM	4052	N2	G	A	190I	88.400	69.124	-29.587	1.00	69.68	A16S
ATOM	4053	N1	G	A	190I	90.408	68.108	-29.077	1.00	69.68	A16S
ATOM	4054	C6	G	A	190I	91.490	67.748	-28.277	1.00	69.68	A16S
ATOM	4055	O6	G	A	190I	92.387	67.022	-28.733	1.00	69.68	A16S
ATOM	4056	C5	G	A	190I	91.383	68.302	-26.980	1.00	69.68	A16S
ATOM	4057	N7	G	A	190I	92.222	68.183	-25.881	1.00	69.68	A16S
ATOM	4058	C8	G	A	190I	91.639	68.890	-24.952	1.00	69.68	A16S
ATOM	4059	C2*	G	A	190I	88.381	69.451	-24.083	1.00	71.16	A16S
ATOM	4060	O2*	G	A	190I	87.202	70.223	-24.195	1.00	71.16	A16S
ATOM	4061	C3*	G	A	190I	88.814	69.170	-22.646	1.00	71.16	A16S
ATOM	4062	O3*	G	A	190I	87.699	68.920	-21.796	1.00	71.16	A16S
ATOM	4063	P	U	A	190J	87.221	67.405	-21.536	1.00	76.54	A16S
ATOM	4064	O1P	U	A	190J	86.023	67.526	-20.669	1.00	83.51	A16S
ATOM	4065	O2P	U	A	190J	88.376	66.577	-21.083	1.00	83.51	A16S
ATOM	4066	O5*	U	A	190J	86.769	66.906	-22.981	1.00	76.54	A16S
ATOM	4067	C5*	U	A	190J	85.711	67.583	-23.665	1.00	76.54	A16S
ATOM	4068	C4*	U	A	190J	85.577	67.080	-25.076	1.00	76.54	A16S
ATOM	4069	O4*	U	A	190J	86.750	67.427	-25.848	1.00	76.54	A16S
ATOM	4070	C1*	U	A	190J	86.910	66.487	-26.897	1.00	76.54	A16S
ATOM	4071	N1	U	A	190J	88.274	65.941	-26.863	1.00	83.51	A16S
ATOM	4072	C6	U	A	190J	89.073	66.044	-25.746	1.00	83.51	A16S
ATOM	4073	C2	U	A	190J	88.732	65.309	-28.015	1.00	83.51	A16S
ATOM	4074	O2	U	A	190J	88.052	65.187	-29.021	1.00	83.51	A16S

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ATOM	4075	N3	U	A	190J	90.013	64.825	-27.942	1.00	83.51	A16S
ATOM	4076	C4	U	A	190J	90.869	64.902	-26.861	1.00	83.51	A16S
ATOM	4077	O4	U	A	190J	92.021	64.471	-26.973	1.00	83.51	A16S
ATOM	4078	C5	U	A	190J	90.320	65.559	-25.706	1.00	83.51	A16S
ATOM	4079	C2*	U	A	190J	85.841	65.407	-26.734	1.00	76.54	A16S
ATOM	4080	O2*	U	A	190J	84.779	65.654	-27.638	1.00	76.54	A16S
ATOM	4081	C3*	U	A	190J	85.445	65.582	-25.272	1.00	76.54	A16S
ATOM	4082	O3*	U	A	190J	84.127	65.119	-25.029	1.00	76.54	A16S
ATOM	4083	P	G	A	190K	83.898	63.596	-24.566	1.00	81.17	A16S
ATOM	4084	O1P	G	A	190K	82.559	63.567	-23.913	1.00	78.92	A16S
ATOM	4085	O2P	G	A	190K	85.094	63.120	-23.807	1.00	78.92	A16S
ATOM	4086	O5*	G	A	190K	83.814	62.805	-25.947	1.00	81.17	A16S
ATOM	4087	C5*	G	A	190K	82.722	63.038	-26.848	1.00	81.17	A16S
ATOM	4088	C4*	G	A	190K	82.924	62.268	-28.122	1.00	81.17	A16S
ATOM	4089	O4*	G	A	190K	84.012	62.860	-28.876	1.00	81.17	A16S
ATOM	4090	C1*	G	A	190K	84.719	61.843	-29.570	1.00	81.17	A16S
ATOM	4091	N9	G	A	190K	86.104	61.827	-29.100	1.00	78.92	A16S
ATOM	4092	C4	G	A	190K	87.205	61.413	-29.822	1.00	78.92	A16S
ATOM	4093	N3	G	A	190K	87.197	60.985	-31.104	1.00	78.92	A16S
ATOM	4094	C2	G	A	190K	88.405	60.648	-31.516	1.00	78.92	A16S
ATOM	4095	N2	G	A	190K	88.575	60.214	-32.767	1.00	78.92	A16S
ATOM	4096	N1	G	A	190K	89.536	60.714	-30.729	1.00	78.92	A16S
ATOM	4097	C6	G	A	190K	89.567	61.142	-29.403	1.00	78.92	A16S
ATOM	4098	O6	G	A	190K	90.635	61.148	-28.776	1.00	78.92	A16S
ATOM	4099	C5	G	A	190K	88.277	61.522	-28.951	1.00	78.92	A16S
ATOM	4100	N7	G	A	190K	87.863	62.010	-27.716	1.00	78.92	A16S
ATOM	4101	C8	G	A	190K	86.572	62.183	-27.851	1.00	78.92	A16S
ATOM	4102	C2*	G	A	190K	84.024	60.512	-29.276	1.00	81.17	A16S
ATOM	4103	O2*	G	A	190K	83.122	60.185	-30.315	1.00	81.17	A16S
ATOM	4104	C3*	G	A	190K	83.328	60.814	-27.956	1.00	81.17	A16S
ATOM	4105	O3*	G	A	190K	82.232	59.951	-27.714	1.00	81.17	A16S
ATOM	4106	P	U	A	190L	82.485	58.541	-26.979	1.00	73.48	A16S
ATOM	4107	O1P	U	A	190L	81.139	57.998	-26.667	1.00	91.37	A16S
ATOM	4108	O2P	U	A	190L	83.474	58.728	-25.876	1.00	91.37	A16S
ATOM	4109	O5*	U	A	190L	83.124	57.615	-28.113	1.00	73.48	A16S
ATOM	4110	C5*	U	A	190L	82.296	57.089	-29.167	1.00	73.48	A16S
ATOM	4111	C4*	U	A	190L	83.099	56.240	-30.125	1.00	73.48	A16S
ATOM	4112	O4*	U	A	190L	84.024	57.075	-30.865	1.00	73.48	A16S
ATOM	4113	C1*	U	A	190L	85.182	56.324	-31.191	1.00	73.48	A16S
ATOM	4114	N1	U	A	190L	86.346	56.911	-30.514	1.00	91.37	A16S
ATOM	4115	C6	U	A	190L	86.212	57.766	-29.447	1.00	91.37	A16S
ATOM	4116	C2	U	A	190L	87.597	56.533	-30.969	1.00	91.37	A16S
ATOM	4117	O2	U	A	190L	87.758	55.801	-31.946	1.00	91.37	A16S
ATOM	4118	N3	U	A	190L	88.652	57.037	-30.243	1.00	91.37	A16S
ATOM	4119	C4	U	A	190L	88.583	57.863	-29.141	1.00	91.37	A16S
ATOM	4120	O4	U	A	190L	89.615	58.136	-28.519	1.00	91.37	A16S
ATOM	4121	C5	U	A	190L	87.257	58.239	-28.765	1.00	91.37	A16S
ATOM	4122	C2*	U	A	190L	84.977	54.907	-30.666	1.00	73.48	A16S
ATOM	4123	O2*	U	A	190L	84.505	54.095	-31.718	1.00	73.48	A16S
ATOM	4124	C3*	U	A	190L	83.972	55.140	-29.542	1.00	73.48	A16S
ATOM	4125	O3*	U	A	190L	83.265	53.953	-29.189	1.00	73.48	A16S
ATOM	4126	P	G	A	191	83.858	52.988	-28.039	1.00	77.24	A16S
ATOM	4127	O1P	G	A	191	82.938	51.834	-27.911	1.00	76.13	A16S
ATOM	4128	O2P	G	A	191	84.166	53.812	-26.838	1.00	76.13	A16S
ATOM	4129	O5*	G	A	191	85.222	52.443	-28.661	1.00	77.24	A16S
ATOM	4130	C5*	G	A	191	85.199	51.597	-29.830	1.00	77.24	A16S
ATOM	4131	C4*	G	A	191	86.581	51.068	-30.140	1.00	77.24	A16S
ATOM	4132	O4*	G	A	191	87.423	52.145	-30.622	1.00	77.24	A16S
ATOM	4133	C1*	G	A	191	88.758	51.932	-30.192	1.00	77.24	A16S
ATOM	4134	N9	G	A	191	89.133	53.023	-29.295	1.00	76.13	A16S
ATOM	4135	C4	G	A	191	90.411	53.339	-28.884	1.00	76.13	A16S
ATOM	4136	N3	G	A	191	91.542	52.685	-29.227	1.00	76.13	A16S
ATOM	4137	C2	G	A	191	92.615	53.228	-28.673	1.00	76.13	A16S
ATOM	4138	N2	G	A	191	93.823	52.693	-28.893	1.00	76.13	A16S
ATOM	4139	N1	G	A	191	92.582	54.330	-27.859	1.00	76.13	A16S
ATOM	4140	C6	G	A	191	91.433	55.021	-27.496	1.00	76.13	A16S
ATOM	4141	O6	G	A	191	91.517	56.007	-26.764	1.00	76.13	A16S
ATOM	4142	C5	G	A	191	90.270	54.443	-28.069	1.00	76.13	A16S
ATOM	4143	N7	G	A	191	88.932	54.807	-27.955	1.00	76.13	A16S
ATOM	4144	C8	G	A	191	88.296	53.938	-28.695	1.00	76.13	A16S
ATOM	4145	C2*	G	A	191	88.800	50.586	-29.471	1.00	77.24	A16S
ATOM	4146	O2*	G	A	191	89.133	49.563	-30.391	1.00	77.24	A16S
ATOM	4147	C3*	G	A	191	87.365	50.463	-28.983	1.00	77.24	A16S
ATOM	4148	O3*	G	A	191	87.025	49.109	-28.707	1.00	77.24	A16S
ATOM	4149	P	U	A	192	87.120	48.562	-27.192	1.00	72.46	A16S
ATOM	4150	O1P	U	A	192	86.593	47.163	-27.203	1.00	56.83	A16S
ATOM	4151	O2P	U	A	192	86.512	49.585	-26.272	1.00	56.83	A16S

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ATOM	4152	O5*	U	A	192	88.687	48.509	-26.897	1.00	72.46	A16S
ATOM	4153	C5*	U	A	192	89.569	47.725	-27.722	1.00	72.46	A16S
ATOM	4154	C4*	U	A	192	91.009	47.979	-27.340	1.00	72.46	A16S
ATOM	4155	O4*	U	A	192	91.347	49.363	-27.598	1.00	72.46	A16S
ATOM	4156	C1*	U	A	192	92.286	49.806	-26.641	1.00	72.46	A16S
ATOM	4157	N1	U	A	192	91.738	50.979	-25.952	1.00	56.83	A16S
ATOM	4158	C6	U	A	192	90.391	51.220	-25.899	1.00	56.83	A16S
ATOM	4159	C2	U	A	192	92.641	51.850	-25.374	1.00	56.83	A16S
ATOM	4160	O2	U	A	192	93.847	51.646	-25.354	1.00	56.83	A16S
ATOM	4161	N3	U	A	192	92.086	52.964	-24.809	1.00	56.83	A16S
ATOM	4162	C4	U	A	192	90.756	53.280	-24.749	1.00	56.83	A16S
ATOM	4163	O4	U	A	192	90.424	54.374	-24.296	1.00	56.83	A16S
ATOM	4164	C5	U	A	192	89.881	52.309	-25.332	1.00	56.83	A16S
ATOM	4165	C2*	U	A	192	92.591	48.649	-25.701	1.00	72.46	A16S
ATOM	4166	O2*	U	A	192	93.778	48.021	-26.135	1.00	72.46	A16S
ATOM	4167	C3*	U	A	192	91.355	47.781	-25.878	1.00	72.46	A16S
ATOM	4168	O3*	U	A	192	91.613	46.426	-25.585	1.00	72.46	A16S
ATOM	4169	P	C	A	193	91.417	45.902	-24.080	1.00	72.11	A16S
ATOM	4170	O1P	C	A	193	91.765	44.451	-24.124	1.00	53.66	A16S
ATOM	4171	O2P	C	A	193	90.083	46.337	-23.560	1.00	53.66	A16S
ATOM	4172	O5*	C	A	193	92.532	46.688	-23.255	1.00	72.11	A16S
ATOM	4173	C5*	C	A	193	93.923	46.563	-23.609	1.00	72.11	A16S
ATOM	4174	C4*	C	A	193	94.769	47.543	-22.832	1.00	72.11	A16S
ATOM	4175	O4*	C	A	193	94.524	48.902	-23.276	1.00	72.11	A16S
ATOM	4176	C1*	C	A	193	94.683	49.786	-22.182	1.00	72.11	A16S
ATOM	4177	N1	C	A	193	93.424	50.523	-21.960	1.00	53.66	A16S
ATOM	4178	C6	C	A	193	92.283	50.198	-22.634	1.00	53.66	A16S
ATOM	4179	C2	C	A	193	93.418	51.586	-21.038	1.00	53.66	A16S
ATOM	4180	O2	C	A	193	94.453	51.844	-20.405	1.00	53.66	A16S
ATOM	4181	N3	C	A	193	92.291	52.297	-20.855	1.00	53.66	A16S
ATOM	4182	C4	C	A	193	91.195	51.984	-21.535	1.00	53.66	A16S
ATOM	4183	N4	C	A	193	90.115	52.733	-21.339	1.00	53.66	A16S
ATOM	4184	C5	C	A	193	91.157	50.895	-22.453	1.00	53.66	A16S
ATOM	4185	C2*	C	A	193	95.086	48.954	-20.968	1.00	72.11	A16S
ATOM	4186	O2*	C	A	193	96.495	48.931	-20.889	1.00	72.11	A16S
ATOM	4187	C3*	C	A	193	94.531	47.591	-21.336	1.00	72.11	A16S
ATOM	4188	O3*	C	A	193	95.194	46.545	-20.652	1.00	72.11	A16S
ATOM	4189	P	C	A	194	94.564	45.976	-19.286	1.00	64.13	A16S
ATOM	4190	O1P	C	A	194	95.289	44.710	-19.026	1.00	56.26	A16S
ATOM	4191	O2P	C	A	194	93.080	45.969	-19.363	1.00	56.26	A16S
ATOM	4192	O5*	C	A	194	94.999	47.040	-18.186	1.00	64.13	A16S
ATOM	4193	C5*	C	A	194	96.344	47.058	-17.705	1.00	64.13	A16S
ATOM	4194	C4*	C	A	194	96.535	48.191	-16.744	1.00	64.13	A16S
ATOM	4195	O4*	C	A	194	96.192	49.425	-17.415	1.00	64.13	A16S
ATOM	4196	C1*	C	A	194	95.577	50.314	-16.503	1.00	64.13	A16S
ATOM	4197	N1	C	A	194	94.227	50.612	-16.994	1.00	56.26	A16S
ATOM	4198	C6	C	A	194	93.668	49.863	-17.991	1.00	56.26	A16S
ATOM	4199	C2	C	A	194	93.513	51.677	-16.421	1.00	56.26	A16S
ATOM	4200	O2	C	A	194	94.043	52.335	-15.508	1.00	56.26	A16S
ATOM	4201	N3	C	A	194	92.265	51.952	-16.874	1.00	56.26	A16S
ATOM	4202	C4	C	A	194	91.728	51.204	-17.846	1.00	56.26	A16S
ATOM	4203	N4	C	A	194	90.490	51.490	-18.257	1.00	56.26	A16S
ATOM	4204	C5	C	A	194	92.436	50.120	-18.441	1.00	56.26	A16S
ATOM	4205	C2*	C	A	194	95.571	49.646	-15.129	1.00	64.13	A16S
ATOM	4206	O2*	C	A	194	96.679	50.177	-14.423	1.00	64.13	A16S
ATOM	4207	C3*	C	A	194	95.658	48.159	-15.502	1.00	64.13	A16S
ATOM	4208	O3*	C	A	194	96.250	47.316	-14.495	1.00	64.13	A16S
ATOM	4209	P	A	A	195	95.355	46.207	-13.731	1.00	63.49	A16S
ATOM	4210	O1P	A	A	195	96.192	44.999	-13.494	1.00	65.51	A16S
ATOM	4211	O2P	A	A	195	94.043	46.075	-14.429	1.00	65.51	A16S
ATOM	4212	O5*	A	A	195	95.086	46.853	-12.302	1.00	63.49	A16S
ATOM	4213	C5*	A	A	195	94.318	48.057	-12.185	1.00	63.49	A16S
ATOM	4214	C4*	A	A	195	94.784	48.861	-10.998	1.00	63.49	A16S
ATOM	4215	O4*	A	A	195	94.081	50.119	-11.006	1.00	63.49	A16S
ATOM	4216	C1*	A	A	195	93.692	50.458	-9.697	1.00	63.49	A16S
ATOM	4217	N9	A	A	195	92.245	50.634	-9.713	1.00	65.51	A16S
ATOM	4218	C4	A	A	195	91.556	51.673	-9.144	1.00	65.51	A16S
ATOM	4219	N3	A	A	195	92.062	52.682	-8.418	1.00	65.51	A16S
ATOM	4220	C2	A	A	195	91.099	53.530	-8.053	1.00	65.51	A16S
ATOM	4221	N1	A	A	195	89.787	53.487	-8.310	1.00	65.51	A16S
ATOM	4222	C6	A	A	195	89.309	52.457	-9.042	1.00	65.51	A16S
ATOM	4223	N6	A	A	195	87.997	52.417	-9.297	1.00	65.51	A16S
ATOM	4224	C5	A	A	195	90.234	51.485	-9.492	1.00	65.51	A16S
ATOM	4225	N7	A	A	195	90.090	50.328	-10.245	1.00	65.51	A16S
ATOM	4226	C8	A	A	195	91.306	49.855	-10.333	1.00	65.51	A16S
ATOM	4227	C2*	A	A	195	94.263	49.420	-8.727	1.00	63.49	A16S
ATOM	4228	O2*	A	A	195	95.433	49.963	-8.149	1.00	63.49	A16S

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ATOM	4229	C3*	A	A	195	94.517	48.221	-9.644	1.00	63.49	A16S
ATOM	4230	O3*	A	A	195	95.697	47.502	-9.266	1.00	63.49	A16S
ATOM	4231	P	A	A	196	95.585	46.077	-8.521	1.00	67.29	A16S
ATOM	4232	O1P	A	A	196	96.919	45.421	-8.648	1.00	53.78	A16S
ATOM	4233	O2P	A	A	196	94.369	45.371	-9.020	1.00	53.78	A16S
ATOM	4234	O5*	A	A	196	95.409	46.457	-6.982	1.00	67.29	A16S
ATOM	4235	C5*	A	A	196	96.518	47.000	-6.235	1.00	67.29	A16S
ATOM	4236	C4*	A	A	196	96.020	47.763	-5.031	1.00	67.29	A16S
ATOM	4237	O4*	A	A	196	95.130	48.807	-5.479	1.00	67.29	A16S
ATOM	4238	C1*	A	A	196	94.028	48.905	-4.605	1.00	67.29	A16S
ATOM	4239	N9	A	A	196	92.840	48.624	-5.401	1.00	53.78	A16S
ATOM	4240	C4	A	A	196	91.773	49.460	-5.606	1.00	53.78	A16S
ATOM	4241	N3	A	A	196	91.595	50.690	-5.101	1.00	53.78	A16S
ATOM	4242	C2	A	A	196	90.454	51.215	-5.541	1.00	53.78	A16S
ATOM	4243	N1	A	A	196	89.540	50.684	-6.358	1.00	53.78	A16S
ATOM	4244	C6	A	A	196	89.744	49.435	-6.833	1.00	53.78	A16S
ATOM	4245	N6	A	A	196	88.817	48.888	-7.625	1.00	53.78	A16S
ATOM	4246	C5	A	A	196	90.921	48.781	-6.456	1.00	53.78	A16S
ATOM	4247	N7	A	A	196	91.435	47.534	-6.774	1.00	53.78	A16S
ATOM	4248	C8	A	A	196	92.569	47.487	-6.121	1.00	53.78	A16S
ATOM	4249	C2*	A	A	196	94.257	47.939	-3.438	1.00	67.29	A16S
ATOM	4250	O2*	A	A	196	94.821	48.616	-2.326	1.00	67.29	A16S
ATOM	4251	C3*	A	A	196	95.214	46.927	-4.054	1.00	67.29	A16S
ATOM	4252	O3*	A	A	196	96.083	46.374	-3.073	1.00	67.29	A16S
ATOM	4253	P	A	A	197	96.294	44.784	-2.995	1.00	73.92	A16S
ATOM	4254	O1P	A	A	197	94.983	44.149	-3.303	1.00	59.22	A16S
ATOM	4255	O2P	A	A	197	97.488	44.430	-3.814	1.00	59.22	A16S
ATOM	4256	O5*	A	A	197	96.644	44.552	-1.457	1.00	73.92	A16S
ATOM	4257	C5*	A	A	197	95.956	43.561	-0.660	1.00	73.92	A16S
ATOM	4258	C4*	A	A	197	95.388	44.206	0.582	1.00	73.92	A16S
ATOM	4259	O4*	A	A	197	96.450	44.845	1.307	1.00	73.92	A16S
ATOM	4260	C1*	A	A	197	96.036	46.104	1.771	1.00	73.92	A16S
ATOM	4261	N9	A	A	197	97.134	47.033	1.523	1.00	59.22	A16S
ATOM	4262	C4	A	A	197	97.732	47.818	2.474	1.00	59.22	A16S
ATOM	4263	N3	A	A	197	97.336	47.999	3.744	1.00	59.22	A16S
ATOM	4264	C2	A	A	197	98.209	48.743	4.404	1.00	59.22	A16S
ATOM	4265	N1	A	A	197	99.350	49.284	3.974	1.00	59.22	A16S
ATOM	4266	C6	A	A	197	99.713	49.092	2.689	1.00	59.22	A16S
ATOM	4267	N6	A	A	197	100.857	49.627	2.265	1.00	59.22	A16S
ATOM	4268	C5	A	A	197	98.864	48.329	1.880	1.00	59.22	A16S
ATOM	4269	N7	A	A	197	98.930	47.954	0.548	1.00	59.22	A16S
ATOM	4270	C8	A	A	197	97.865	47.211	0.379	1.00	59.22	A16S
ATOM	4271	C2*	A	A	197	94.597	46.375	1.329	1.00	73.92	A16S
ATOM	4272	O2*	A	A	197	93.750	46.277	2.447	1.00	73.92	A16S
ATOM	4273	C3*	A	A	197	94.368	45.285	0.282	1.00	73.92	A16S
ATOM	4274	O3*	A	A	197	93.067	44.655	0.253	1.00	73.92	A16S
ATOM	4275	P	G	A	198	92.473	43.845	1.551	1.00	53.02	A16S
ATOM	4276	O1P	G	A	198	91.814	42.627	0.988	1.00	52.98	A16S
ATOM	4277	O2P	G	A	198	91.685	44.775	2.418	1.00	52.98	A16S
ATOM	4278	O5*	G	A	198	93.712	43.311	2.400	1.00	53.02	A16S
ATOM	4279	C5*	G	A	198	93.544	42.973	3.789	1.00	53.02	A16S
ATOM	4280	C4*	G	A	198	94.713	43.489	4.570	1.00	53.02	A16S
ATOM	4281	O4*	G	A	198	94.966	44.841	4.134	1.00	53.02	A16S
ATOM	4282	C1*	G	A	198	95.450	45.610	5.216	1.00	53.02	A16S
ATOM	4283	N9	G	A	198	94.493	46.677	5.506	1.00	52.98	A16S
ATOM	4284	C4	G	A	198	94.747	47.777	6.279	1.00	52.98	A16S
ATOM	4285	N3	G	A	198	95.914	48.051	6.901	1.00	52.98	A16S
ATOM	4286	C2	G	A	198	95.854	49.177	7.594	1.00	52.98	A16S
ATOM	4287	N2	G	A	198	96.919	49.573	8.287	1.00	52.98	A16S
ATOM	4288	N1	G	A	198	94.742	49.982	7.662	1.00	52.98	A16S
ATOM	4289	C6	G	A	198	93.525	49.715	7.031	1.00	52.98	A16S
ATOM	4290	O6	G	A	198	92.575	50.493	7.169	1.00	52.98	A16S
ATOM	4291	C5	G	A	198	93.574	48.502	6.286	1.00	52.98	A16S
ATOM	4292	N7	G	A	198	92.597	47.869	5.528	1.00	52.98	A16S
ATOM	4293	C8	G	A	198	93.185	46.791	5.086	1.00	52.98	A16S
ATOM	4294	C2*	G	A	198	95.615	44.665	6.397	1.00	53.02	A16S
ATOM	4295	O2*	G	A	198	96.915	44.115	6.327	1.00	53.02	A16S
ATOM	4296	C3*	G	A	198	94.568	43.613	6.077	1.00	53.02	A16S
ATOM	4297	O3*	G	A	198	94.823	42.414	6.786	1.00	53.02	A16S
ATOM	4298	P	G	A	199	94.200	42.223	8.263	1.00	62.13	A16S
ATOM	4299	O1P	G	A	199	94.660	40.883	8.730	1.00	53.06	A16S
ATOM	4300	O2P	G	A	199	92.733	42.532	8.196	1.00	53.06	A16S
ATOM	4301	O5*	G	A	199	94.926	43.314	9.177	1.00	62.13	A16S
ATOM	4302	C5*	G	A	199	96.297	43.134	9.566	1.00	62.13	A16S
ATOM	4303	C4*	G	A	199	96.790	44.330	10.333	1.00	62.13	A16S
ATOM	4304	O4*	G	A	199	96.620	45.520	9.528	1.00	62.13	A16S
ATOM	4305	C1*	G	A	199	96.376	46.634	10.368	1.00	62.13	A16S

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ATOM	4306	N9	G	A	199	95.071	47.184	10.044	1.00	53.06	A16S
ATOM	4307	C4	G	A	199	94.552	48.345	10.549	1.00	53.06	A16S
ATOM	4308	N3	G	A	199	95.188	49.193	11.379	1.00	53.06	A16S
ATOM	4309	C2	G	A	199	94.422	50.214	11.720	1.00	53.06	A16S
ATOM	4310	N2	G	A	199	94.915	51.168	12.528	1.00	53.06	A16S
ATOM	4311	N1	G	A	199	93.124	50.375	11.292	1.00	53.06	A16S
ATOM	4312	C6	G	A	199	92.450	49.502	10.446	1.00	53.06	A16S
ATOM	4313	O6	G	A	199	91.273	49.723	10.140	1.00	53.06	A16S
ATOM	4314	C5	G	A	199	93.272	48.419	10.056	1.00	53.06	A16S
ATOM	4315	N7	G	A	199	93.004	47.344	9.222	1.00	53.06	A16S
ATOM	4316	C8	G	A	199	94.104	46.641	9.240	1.00	53.06	A16S
ATOM	4317	C2*	G	A	199	96.350	46.136	11.810	1.00	62.13	A16S
ATOM	4318	O2*	G	A	199	97.580	46.405	12.453	1.00	62.13	A16S
ATOM	4319	C3*	G	A	199	96.047	44.658	11.611	1.00	62.13	A16S
ATOM	4320	O3*	G	A	199	96.493	43.888	12.700	1.00	62.13	A16S
ATOM	4321	P	G	A	200	95.469	43.542	13.884	1.00	67.55	A16S
ATOM	4322	O1P	G	A	200	96.191	42.599	14.793	1.00	43.45	A16S
ATOM	4323	O2P	G	A	200	94.164	43.146	13.269	1.00	43.45	A16S
ATOM	4324	O5*	G	A	200	95.286	44.931	14.631	1.00	67.55	A16S
ATOM	4325	C5*	G	A	200	96.433	45.632	15.100	1.00	67.55	A16S
ATOM	4326	C4*	G	A	200	96.028	46.889	15.811	1.00	67.55	A16S
ATOM	4327	O4*	G	A	200	95.549	47.876	14.872	1.00	67.55	A16S
ATOM	4328	C1*	G	A	200	94.576	48.683	15.501	1.00	67.55	A16S
ATOM	4329	N9	G	A	200	93.357	48.625	14.710	1.00	43.45	A16S
ATOM	4330	C4	G	A	200	92.375	49.580	14.672	1.00	43.45	A16S
ATOM	4331	N3	G	A	200	92.351	50.719	15.399	1.00	43.45	A16S
ATOM	4332	C2	G	A	200	91.297	51.465	15.107	1.00	43.45	A16S
ATOM	4333	N2	G	A	200	91.126	52.643	15.730	1.00	43.45	A16S
ATOM	4334	N1	G	A	200	90.337	51.111	14.180	1.00	43.45	A16S
ATOM	4335	C6	G	A	200	90.346	49.934	13.430	1.00	43.45	A16S
ATOM	4336	O6	G	A	200	89.440	49.703	12.621	1.00	43.45	A16S
ATOM	4337	C5	G	A	200	91.468	49.137	13.728	1.00	43.45	A16S
ATOM	4338	N7	G	A	200	91.854	47.911	13.211	1.00	43.45	A16S
ATOM	4339	C8	G	A	200	92.974	47.641	13.831	1.00	43.45	A16S
ATOM	4340	C2*	G	A	200	94.408	48.188	16.934	1.00	67.55	A16S
ATOM	4341	O2*	G	A	200	95.246	48.971	17.759	1.00	67.55	A16S
ATOM	4342	C3*	G	A	200	94.910	46.756	16.822	1.00	67.55	A16S
ATOM	4343	O3*	G	A	200	95.401	46.246	18.050	1.00	67.55	A16S
ATOM	4344	P	C	A	201	94.390	45.533	19.071	1.00	97.09	A16S
ATOM	4345	O1P	C	A	201	95.085	44.387	19.702	1.00	45.37	A16S
ATOM	4346	O2P	C	A	201	93.078	45.315	18.386	1.00	45.37	A16S
ATOM	4347	O5*	C	A	201	94.235	46.636	20.201	1.00	97.09	A16S
ATOM	4348	C5*	C	A	201	92.996	46.825	20.879	1.00	97.09	A16S
ATOM	4349	C4*	C	A	201	92.502	48.222	20.642	1.00	97.09	A16S
ATOM	4350	O4*	C	A	201	92.388	48.445	19.225	1.00	97.09	A16S
ATOM	4351	C1*	C	A	201	91.318	49.324	18.984	1.00	97.09	A16S
ATOM	4352	N1	C	A	201	90.499	48.798	17.889	1.00	45.37	A16S
ATOM	4353	C6	C	A	201	90.759	47.574	17.328	1.00	45.37	A16S
ATOM	4354	C2	C	A	201	89.456	49.596	17.399	1.00	45.37	A16S
ATOM	4355	O2	C	A	201	89.219	50.689	17.962	1.00	45.37	A16S
ATOM	4356	N3	C	A	201	88.735	49.160	16.334	1.00	45.37	A16S
ATOM	4357	C4	C	A	201	89.019	47.978	15.775	1.00	45.37	A16S
ATOM	4358	N4	C	A	201	88.302	47.600	14.711	1.00	45.37	A16S
ATOM	4359	C5	C	A	201	90.055	47.130	16.279	1.00	45.37	A16S
ATOM	4360	C2*	C	A	201	90.592	49.610	20.299	1.00	97.09	A16S
ATOM	4361	O2*	C	A	201	90.933	50.914	20.717	1.00	97.09	A16S
ATOM	4362	C3*	C	A	201	91.128	48.510	21.209	1.00	97.09	A16S
ATOM	4363	O3*	C	A	201	91.318	48.998	22.526	1.00	97.09	A16S
ATOM	4364	P	U	A	202	90.510	48.353	23.744	1.00	128.72	A16S
ATOM	4365	O1P	U	A	202	91.548	47.942	24.733	1.00	130.25	A16S
ATOM	4366	O2P	U	A	202	89.560	47.333	23.194	1.00	130.25	A16S
ATOM	4367	O5*	U	A	202	89.712	49.604	24.338	1.00	128.72	A16S
ATOM	4368	C5*	U	A	202	88.282	49.562	24.555	1.00	128.72	A16S
ATOM	4369	C4*	U	A	202	87.652	50.888	24.185	1.00	128.72	A16S
ATOM	4370	O4*	U	A	202	88.247	51.931	24.982	1.00	128.72	A16S
ATOM	4371	C1*	U	A	202	88.162	53.150	24.281	1.00	128.72	A16S
ATOM	4372	N1	U	A	202	89.347	53.978	24.577	1.00	130.25	A16S
ATOM	4373	C6	U	A	202	90.170	53.676	25.644	1.00	130.25	A16S
ATOM	4374	C2	U	A	202	89.600	55.099	23.785	1.00	130.25	A16S
ATOM	4375	O2	U	A	202	88.933	55.394	22.806	1.00	130.25	A16S
ATOM	4376	N3	U	A	202	90.670	55.863	24.185	1.00	130.25	A16S
ATOM	4377	C4	U	A	202	91.510	55.628	25.257	1.00	130.25	A16S
ATOM	4378	O4	U	A	202	92.407	56.439	25.516	1.00	130.25	A16S
ATOM	4379	C5	U	A	202	91.209	54.440	26.000	1.00	130.25	A16S
ATOM	4380	C2*	U	A	202	87.773	52.859	22.825	1.00	128.72	A16S
ATOM	4381	O2*	U	A	202	86.459	53.329	22.604	1.00	128.72	A16S
ATOM	4382	C3*	U	A	202	87.861	51.334	22.742	1.00	128.72	A16S

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ATOM	4383	O3*	U	A	202	86.814	50.885	21.860	1.00128.72	A16S
ATOM	4384	P	U	A	203	85.778	49.740	22.334	1.00 97.79	A16S
ATOM	4385	O1P	U	A	203	84.964	50.329	23.432	1.00103.26	A16S
ATOM	4386	O2P	U	A	203	86.525	48.477	22.564	1.00103.26	A16S
ATOM	4387	O5*	U	A	203	84.810	49.496	21.091	1.00 97.79	A16S
ATOM	4388	C5*	U	A	203	84.865	50.332	19.933	1.00 97.79	A16S
ATOM	4389	C4*	U	A	203	84.908	49.487	18.687	1.00 97.79	A16S
ATOM	4390	O4*	U	A	203	86.085	48.660	18.699	1.00 97.79	A16S
ATOM	4391	C1*	U	A	203	85.908	47.648	17.738	1.00 97.79	A16S
ATOM	4392	N1	U	A	203	86.804	46.510	18.015	1.00103.26	A16S
ATOM	4393	C6	U	A	203	87.634	46.495	19.126	1.00103.26	A16S
ATOM	4394	C2	U	A	203	86.827	45.461	17.096	1.00103.26	A16S
ATOM	4395	O2	U	A	203	86.082	45.402	16.123	1.00103.26	A16S
ATOM	4396	N3	U	A	203	87.757	44.483	17.358	1.00103.26	A16S
ATOM	4397	C4	U	A	203	88.643	44.430	18.423	1.00103.26	A16S
ATOM	4398	O4	U	A	203	89.492	43.529	18.461	1.00103.26	A16S
ATOM	4399	C5	U	A	203	88.528	45.522	19.352	1.00103.26	A16S
ATOM	4400	C2*	U	A	203	84.402	47.414	17.574	1.00 97.79	A16S
ATOM	4401	O2*	U	A	203	84.072	47.595	16.207	1.00 97.79	A16S
ATOM	4402	C3*	U	A	203	83.785	48.479	18.501	1.00 97.79	A16S
ATOM	4403	O3*	U	A	203	82.712	49.122	17.820	1.00 97.79	A16S
ATOM	4404	P	U	A	204	81.516	49.802	18.648	1.00118.51	A16S
ATOM	4405	O1P	U	A	204	82.068	50.409	19.887	1.00155.26	A16S
ATOM	4406	O2P	U	A	204	80.419	48.801	18.743	1.00155.26	A16S
ATOM	4407	O5*	U	A	204	81.053	50.984	17.682	1.00118.51	A16S
ATOM	4408	C5*	U	A	204	79.666	51.170	17.352	1.00118.51	A16S
ATOM	4409	C4*	U	A	204	79.490	51.306	15.856	1.00118.51	A16S
ATOM	4410	O4*	U	A	204	80.139	50.193	15.192	1.00118.51	A16S
ATOM	4411	C1*	U	A	204	79.380	49.811	14.061	1.00118.51	A16S
ATOM	4412	N1	U	A	204	79.093	48.370	14.135	1.00155.26	A16S
ATOM	4413	C6	U	A	204	79.263	47.656	15.304	1.00155.26	A16S
ATOM	4414	C2	U	A	204	78.641	47.748	12.979	1.00155.26	A16S
ATOM	4415	O2	U	A	204	78.482	48.342	11.920	1.00155.26	A16S
ATOM	4416	N3	U	A	204	78.381	46.407	13.109	1.00155.26	A16S
ATOM	4417	C4	U	A	204	78.524	45.636	14.245	1.00155.26	A16S
ATOM	4418	O4	U	A	204	78.236	44.438	14.203	1.00155.26	A16S
ATOM	4419	C5	U	A	204	79.002	46.348	15.395	1.00155.26	A16S
ATOM	4420	C2*	U	A	204	78.130	50.695	13.983	1.00118.51	A16S
ATOM	4421	O2*	U	A	204	78.306	51.662	12.970	1.00118.51	A16S
ATOM	4422	C3*	U	A	204	78.033	51.260	15.402	1.00118.51	A16S
ATOM	4423	O3*	U	A	204	77.356	52.538	15.396	1.00118.51	A16S
ATOM	4424	P	G	A	216	78.198	53.922	15.385	1.00158.52	A16S
ATOM	4425	O1P	G	A	216	78.960	54.050	16.660	1.00 65.56	A16S
ATOM	4426	O2P	G	A	216	77.300	55.029	14.974	1.00 65.56	A16S
ATOM	4427	O5*	G	A	216	79.212	53.691	14.177	1.00158.52	A16S
ATOM	4428	C5*	G	A	216	79.853	54.788	13.504	1.00158.52	A16S
ATOM	4429	C4*	G	A	216	81.174	55.061	14.157	1.00158.52	A16S
ATOM	4430	O4*	G	A	216	81.753	53.809	14.562	1.00158.52	A16S
ATOM	4431	C1*	G	A	216	83.148	53.947	14.598	1.00158.52	A16S
ATOM	4432	N9	G	A	216	83.756	52.758	14.023	1.00 65.56	A16S
ATOM	4433	C4	G	A	216	84.796	52.068	14.584	1.00 65.56	A16S
ATOM	4434	N3	G	A	216	85.446	52.414	15.715	1.00 65.56	A16S
ATOM	4435	C2	G	A	216	86.378	51.542	16.032	1.00 65.56	A16S
ATOM	4436	N2	G	A	216	87.111	51.747	17.127	1.00 65.56	A16S
ATOM	4437	N1	G	A	216	86.652	50.410	15.300	1.00 65.56	A16S
ATOM	4438	C6	G	A	216	85.990	50.029	14.133	1.00 65.56	A16S
ATOM	4439	O6	G	A	216	86.294	48.975	13.564	1.00 65.56	A16S
ATOM	4440	C5	G	A	216	84.992	50.972	13.772	1.00 65.56	A16S
ATOM	4441	N7	G	A	216	84.116	50.996	12.692	1.00 65.56	A16S
ATOM	4442	C8	G	A	216	83.406	52.080	12.878	1.00 65.56	A16S
ATOM	4443	C2*	G	A	216	83.536	55.303	14.014	1.00158.52	A16S
ATOM	4444	O2*	G	A	216	83.870	56.142	15.099	1.00158.52	A16S
ATOM	4445	C3*	G	A	216	82.246	55.745	13.327	1.00158.52	A16S
ATOM	4446	O3*	G	A	216	82.090	57.150	13.443	1.00158.52	A16S
ATOM	4447	P	C	A	217	83.033	58.141	12.599	1.00145.25	A16S
ATOM	4448	O1P	C	A	217	82.560	59.505	12.994	1.00 63.79	A16S
ATOM	4449	O2P	C	A	217	82.994	57.722	11.163	1.00 63.79	A16S
ATOM	4450	O5*	C	A	217	84.514	57.923	13.178	1.00145.25	A16S
ATOM	4451	C5*	C	A	217	85.105	58.899	14.075	1.00145.25	A16S
ATOM	4452	C4*	C	A	217	86.445	58.432	14.638	1.00145.25	A16S
ATOM	4453	O4*	C	A	217	86.320	57.111	15.232	1.00145.25	A16S
ATOM	4454	C1*	C	A	217	87.585	56.470	15.232	1.00145.25	A16S
ATOM	4455	N1	C	A	217	87.538	55.268	14.385	1.00 63.79	A16S
ATOM	4456	C6	C	A	217	86.733	55.204	13.279	1.00 63.79	A16S
ATOM	4457	C2	C	A	217	88.376	54.197	14.710	1.00 63.79	A16S
ATOM	4458	O2	C	A	217	89.077	54.273	15.738	1.00 63.79	A16S
ATOM	4459	N3	C	A	217	88.404	53.112	13.898	1.00 63.79	A16S

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ATOM	4460	C4	C	A	217	87.633	53.074	12.808	1.00	63.79	A16S
ATOM	4461	N4	C	A	217	87.708	51.999	12.027	1.00	63.79	A16S
ATOM	4462	C5	C	A	217	86.754	54.140	12.469	1.00	63.79	A16S
ATOM	4463	C2*	C	A	217	88.581	57.431	14.600	1.00145.25	A16S	
ATOM	4464	O2*	C	A	217	89.229	58.161	15.620	1.00145.25	A16S	
ATOM	4465	C3*	C	A	217	87.667	58.291	13.738	1.00145.25	A16S	
ATOM	4466	O3*	C	A	217	88.323	59.509	13.433	1.00145.25	A16S	
ATOM	4467	P	C	A	218	89.396	59.552	12.229	1.00	74.33	A16S
ATOM	4468	O1P	C	A	218	89.793	60.985	12.128	1.00	57.18	A16S
ATOM	4469	O2P	C	A	218	88.837	58.852	11.036	1.00	57.18	A16S
ATOM	4470	O5*	C	A	218	90.644	58.708	12.758	1.00	74.33	A16S
ATOM	4471	C5*	C	A	218	91.379	59.139	13.917	1.00	74.33	A16S
ATOM	4472	C4*	C	A	218	92.499	58.172	14.239	1.00	74.33	A16S
ATOM	4473	O4*	C	A	218	91.960	56.876	14.597	1.00	74.33	A16S
ATOM	4474	C1*	C	A	218	92.863	55.855	14.198	1.00	74.33	A16S
ATOM	4475	N1	C	A	218	92.193	54.963	13.233	1.00	57.18	A16S
ATOM	4476	C6	C	A	218	91.012	55.315	12.641	1.00	57.18	A16S
ATOM	4477	C2	C	A	218	92.793	53.739	12.932	1.00	57.18	A16S
ATOM	4478	O2	C	A	218	93.883	53.461	13.460	1.00	57.18	A16S
ATOM	4479	N3	C	A	218	92.179	52.898	12.070	1.00	57.18	A16S
ATOM	4480	C4	C	A	218	91.022	53.248	11.509	1.00	57.18	A16S
ATOM	4481	N4	C	A	218	90.446	52.388	10.673	1.00	57.18	A16S
ATOM	4482	C5	C	A	218	90.400	54.496	11.781	1.00	57.18	A16S
ATOM	4483	C2*	C	A	218	94.080	56.531	13.581	1.00	74.33	A16S
ATOM	4484	O2*	C	A	218	95.062	56.687	14.581	1.00	74.33	A16S
ATOM	4485	C3*	C	A	218	93.489	57.859	13.131	1.00	74.33	A16S
ATOM	4486	O3*	C	A	218	94.491	58.842	13.012	1.00	74.33	A16S
ATOM	4487	P	C	A	219	95.215	59.050	11.599	1.00	76.69	A16S
ATOM	4488	O1P	C	A	219	96.166	60.165	11.830	1.00	43.62	A16S
ATOM	4489	O2P	C	A	219	94.191	59.149	10.510	1.00	43.62	A16S
ATOM	4490	O5*	C	A	219	96.036	57.701	11.392	1.00	76.69	A16S
ATOM	4491	C5*	C	A	219	97.190	57.427	12.197	1.00	76.69	A16S
ATOM	4492	C4*	C	A	219	97.873	56.163	11.742	1.00	76.69	A16S
ATOM	4493	O4*	C	A	219	97.036	55.011	12.026	1.00	76.69	A16S
ATOM	4494	C1*	C	A	219	97.255	54.010	11.043	1.00	76.69	A16S
ATOM	4495	N1	C	A	219	96.010	53.816	10.272	1.00	43.62	A16S
ATOM	4496	C6	C	A	219	95.042	54.773	10.265	1.00	43.62	A16S
ATOM	4497	C2	C	A	219	95.830	52.627	9.541	1.00	43.62	A16S
ATOM	4498	O2	C	A	219	96.723	51.780	9.543	1.00	43.62	A16S
ATOM	4499	N3	C	A	219	94.691	52.438	8.848	1.00	43.62	A16S
ATOM	4500	C4	C	A	219	93.751	53.382	8.854	1.00	43.62	A16S
ATOM	4501	N4	C	A	219	92.635	53.166	8.150	1.00	43.62	A16S
ATOM	4502	C5	C	A	219	93.909	54.599	9.579	1.00	43.62	A16S
ATOM	4503	C2*	C	A	219	98.363	54.524	10.135	1.00	76.69	A16S
ATOM	4504	O2*	C	A	219	99.612	54.128	10.674	1.00	76.69	A16S
ATOM	4505	C3*	C	A	219	98.165	56.021	10.261	1.00	76.69	A16S
ATOM	4506	O3*	C	A	219	99.292	56.731	9.810	1.00	76.69	A16S
ATOM	4507	P	G	A	220	99.260	57.384	8.341	1.00	91.50	A16S
ATOM	4508	O1P	G	A	220	100.632	57.919	8.154	1.00	58.57	A16S
ATOM	4509	O2P	G	A	220	98.094	58.298	8.247	1.00	58.57	A16S
ATOM	4510	O5*	G	A	220	98.991	56.163	7.339	1.00	91.50	A16S
ATOM	4511	C5*	G	A	220	99.970	55.120	7.188	1.00	91.50	A16S
ATOM	4512	C4*	G	A	220	99.436	53.937	6.391	1.00	91.50	A16S
ATOM	4513	O4*	G	A	220	98.242	53.365	6.996	1.00	91.50	A16S
ATOM	4514	C1*	G	A	220	97.561	52.574	6.026	1.00	91.50	A16S
ATOM	4515	N9	G	A	220	96.188	53.041	5.853	1.00	58.57	A16S
ATOM	4516	C4	G	A	220	95.224	52.413	5.100	1.00	58.57	A16S
ATOM	4517	N3	G	A	220	95.361	51.229	4.465	1.00	58.57	A16S
ATOM	4518	C2	G	A	220	94.269	50.901	3.789	1.00	58.57	A16S
ATOM	4519	N2	G	A	220	94.219	49.743	3.114	1.00	58.57	A16S
ATOM	4520	N1	G	A	220	93.141	51.681	3.729	1.00	58.57	A16S
ATOM	4521	C6	G	A	220	92.980	52.906	4.376	1.00	58.57	A16S
ATOM	4522	O6	G	A	220	91.919	53.542	4.248	1.00	58.57	A16S
ATOM	4523	C5	G	A	220	94.135	53.259	5.119	1.00	58.57	A16S
ATOM	4524	N7	G	A	220	94.390	54.373	5.908	1.00	58.57	A16S
ATOM	4525	C8	G	A	220	95.613	54.196	6.331	1.00	58.57	A16S
ATOM	4526	C2*	G	A	220	98.293	52.772	4.702	1.00	91.50	A16S
ATOM	4527	O2*	G	A	220	99.220	51.722	4.520	1.00	91.50	A16S
ATOM	4528	C3*	G	A	220	99.025	54.086	4.935	1.00	91.50	A16S
ATOM	4529	O3*	G	A	220	100.104	54.141	4.015	1.00	91.50	A16S
ATOM	4530	P	C	A	221	99.842	54.698	2.524	1.00	51.29	A16S
ATOM	4531	O1P	C	A	221	101.164	54.747	1.846	1.00	59.94	A16S
ATOM	4532	O2P	C	A	221	99.009	55.931	2.622	1.00	59.94	A16S
ATOM	4533	O5*	C	A	221	98.961	53.587	1.799	1.00	51.29	A16S
ATOM	4534	C5*	C	A	221	99.495	52.289	1.540	1.00	51.29	A16S
ATOM	4535	C4*	C	A	221	98.488	51.461	0.795	1.00	51.29	A16S
ATOM	4536	O4*	C	A	221	97.267	51.383	1.565	1.00	51.29	A16S

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ATOM	4537	C1*	C	A	221	96.146	51.373	0.696	1.00	51.29	A16S
ATOM	4538	N1	C	A	221	95.297	52.547	0.984	1.00	59.94	A16S
ATOM	4539	C6	C	A	221	95.663	53.491	1.908	1.00	59.94	A16S
ATOM	4540	C2	C	A	221	94.102	52.692	0.262	1.00	59.94	A16S
ATOM	4541	O2	C	A	221	93.769	51.793	-0.535	1.00	59.94	A16S
ATOM	4542	N3	C	A	221	93.340	53.797	0.450	1.00	59.94	A16S
ATOM	4543	C4	C	A	221	93.719	54.725	1.329	1.00	59.94	A16S
ATOM	4544	N4	C	A	221	92.948	55.808	1.453	1.00	59.94	A16S
ATOM	4545	C5	C	A	221	94.910	54.585	2.112	1.00	59.94	A16S
ATOM	4546	C2*	C	A	221	96.676	51.412	-0.735	1.00	51.29	A16S
ATOM	4547	O2*	C	A	221	96.730	50.102	-1.268	1.00	51.29	A16S
ATOM	4548	C3*	C	A	221	98.042	52.043	-0.526	1.00	51.29	A16S
ATOM	4549	O3*	C	A	221	98.956	51.739	-1.552	1.00	51.29	A16S
ATOM	4550	P	U	A	222	99.353	52.882	-2.598	1.00	57.94	A16S
ATOM	4551	O1P	U	A	222	100.616	52.420	-3.231	1.00	49.35	A16S
ATOM	4552	O2P	U	A	222	99.315	54.201	-1.886	1.00	49.35	A16S
ATOM	4553	O5*	U	A	222	98.170	52.843	-3.662	1.00	57.94	A16S
ATOM	4554	C5*	U	A	222	97.858	51.629	-4.338	1.00	57.94	A16S
ATOM	4555	C4*	U	A	222	96.644	51.816	-5.200	1.00	57.94	A16S
ATOM	4556	O4*	U	A	222	95.469	51.980	-4.371	1.00	57.94	A16S
ATOM	4557	C1*	U	A	222	94.559	52.867	-5.002	1.00	57.94	A16S
ATOM	4558	N1	U	A	222	94.322	54.003	-4.099	1.00	49.35	A16S
ATOM	4559	C6	U	A	222	95.094	54.192	-2.976	1.00	49.35	A16S
ATOM	4560	C2	U	A	222	93.295	54.871	-4.404	1.00	49.35	A16S
ATOM	4561	O2	U	A	222	92.598	54.745	-5.391	1.00	49.35	A16S
ATOM	4562	N3	U	A	222	93.117	55.896	-3.510	1.00	49.35	A16S
ATOM	4563	C4	U	A	222	93.852	56.139	-2.369	1.00	49.35	A16S
ATOM	4564	O4	U	A	222	93.610	57.138	-1.687	1.00	49.35	A16S
ATOM	4565	C5	U	A	222	94.897	55.200	-2.125	1.00	49.35	A16S
ATOM	4566	C2*	U	A	222	95.159	53.261	-6.349	1.00	57.94	A16S
ATOM	4567	O2*	U	A	222	94.628	52.378	-7.315	1.00	57.94	A16S
ATOM	4568	C3*	U	A	222	96.649	53.037	-6.098	1.00	57.94	A16S
ATOM	4569	O3*	U	A	222	97.385	52.768	-7.281	1.00	57.94	A16S
ATOM	4570	P	U	A	223	98.314	53.912	-7.924	1.00	60.43	A16S
ATOM	4571	O1P	U	A	223	99.278	53.197	-8.804	1.00	46.96	A16S
ATOM	4572	O2P	U	A	223	98.814	54.817	-6.861	1.00	46.96	A16S
ATOM	4573	O5*	U	A	223	97.312	54.724	-8.845	1.00	60.43	A16S
ATOM	4574	C5*	U	A	223	96.634	54.053	-9.905	1.00	60.43	A16S
ATOM	4575	C4*	U	A	223	95.477	54.879	-10.396	1.00	60.43	A16S
ATOM	4576	O4*	U	A	223	94.406	54.893	-9.420	1.00	60.43	A16S
ATOM	4577	C1*	U	A	223	93.746	56.147	-9.454	1.00	60.43	A16S
ATOM	4578	N1	U	A	223	93.908	56.791	-8.139	1.00	46.96	A16S
ATOM	4579	C6	U	A	223	94.957	56.462	-7.307	1.00	46.96	A16S
ATOM	4580	C2	U	A	223	92.974	57.749	-7.761	1.00	46.96	A16S
ATOM	4581	O2	U	A	223	92.027	58.061	-8.460	1.00	46.96	A16S
ATOM	4582	N3	U	A	223	93.192	58.326	-6.528	1.00	46.96	A16S
ATOM	4583	C4	U	A	223	94.227	58.043	-5.642	1.00	46.96	A16S
ATOM	4584	O4	U	A	223	94.301	58.651	-4.557	1.00	46.96	A16S
ATOM	4585	C5	U	A	223	95.143	57.034	-6.107	1.00	46.96	A16S
ATOM	4586	C2*	U	A	223	94.384	56.954	-10.584	1.00	60.43	A16S
ATOM	4587	O2*	U	A	223	93.689	56.688	-11.787	1.00	60.43	A16S
ATOM	4588	C3*	U	A	223	95.774	56.344	-10.634	1.00	60.43	A16S
ATOM	4589	O3*	U	A	223	96.455	56.566	-11.857	1.00	60.43	A16S
ATOM	4590	P	C	A	224	97.520	57.766	-11.952	1.00	65.50	A16S
ATOM	4591	O1P	C	A	224	98.133	57.595	-13.301	1.00	52.27	A16S
ATOM	4592	O2P	C	A	224	98.395	57.804	-10.737	1.00	52.27	A16S
ATOM	4593	O5*	C	A	224	96.586	59.057	-11.934	1.00	65.50	A16S
ATOM	4594	C5*	C	A	224	95.571	59.202	-12.934	1.00	65.50	A16S
ATOM	4595	C4*	C	A	224	94.609	60.301	-12.579	1.00	65.50	A16S
ATOM	4596	O4*	C	A	224	93.881	59.964	-11.377	1.00	65.50	A16S
ATOM	4597	C1*	C	A	224	93.460	61.154	-10.737	1.00	65.50	A16S
ATOM	4598	N1	C	A	224	94.006	61.188	-9.377	1.00	52.27	A16S
ATOM	4599	C6	C	A	224	94.965	60.304	-8.979	1.00	52.27	A16S
ATOM	4600	C2	C	A	224	93.537	62.179	-8.488	1.00	52.27	A16S
ATOM	4601	O2	C	A	224	92.646	62.961	-8.861	1.00	52.27	A16S
ATOM	4602	N3	C	A	224	94.067	62.261	-7.256	1.00	52.27	A16S
ATOM	4603	C4	C	A	224	95.024	61.414	-6.888	1.00	52.27	A16S
ATOM	4604	N4	C	A	224	95.544	61.562	-5.667	1.00	52.27	A16S
ATOM	4605	C5	C	A	224	95.500	60.380	-7.757	1.00	52.27	A16S
ATOM	4606	C2*	C	A	224	93.998	62.329	-11.549	1.00	65.50	A16S
ATOM	4607	O2*	C	A	224	92.969	62.785	-12.407	1.00	65.50	A16S
ATOM	4608	C3*	C	A	224	95.163	61.680	-12.285	1.00	65.50	A16S
ATOM	4609	O3*	C	A	224	95.522	62.391	-13.462	1.00	65.50	A16S
ATOM	4610	P	C	A	225	96.757	63.428	-13.418	1.00	59.68	A16S
ATOM	4611	O1P	C	A	225	97.182	63.617	-14.846	1.00	48.45	A16S
ATOM	4612	O2P	C	A	225	97.752	62.966	-12.414	1.00	48.45	A16S
ATOM	4613	O5*	C	A	225	96.112	64.766	-12.833	1.00	59.68	A16S

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ATOM	4614	C5*	C	A	225	95.140	65.500	-13.589	1.00	59.68	A16S
ATOM	4615	C4*	C	A	225	94.530	66.582	-12.741	1.00	59.68	A16S
ATOM	4616	O4*	C	A	225	93.879	65.973	-11.600	1.00	59.68	A16S
ATOM	4617	C1*	C	A	225	93.946	66.849	-10.490	1.00	59.68	A16S
ATOM	4618	N1	C	A	225	94.702	66.200	-9.418	1.00	48.45	A16S
ATOM	4619	C6	C	A	225	95.391	65.038	-9.635	1.00	48.45	A16S
ATOM	4620	C2	C	A	225	94.723	66.814	-8.160	1.00	48.45	A16S
ATOM	4621	O2	C	A	225	94.074	67.859	-7.993	1.00	48.45	A16S
ATOM	4622	N3	C	A	225	95.448	66.257	-7.165	1.00	48.45	A16S
ATOM	4623	C4	C	A	225	96.130	65.130	-7.388	1.00	48.45	A16S
ATOM	4624	N4	C	A	225	96.843	64.624	-6.381	1.00	48.45	A16S
ATOM	4625	C5	C	A	225	96.112	64.473	-8.658	1.00	48.45	A16S
ATOM	4626	C2*	C	A	225	94.680	68.107	-10.936	1.00	59.68	A16S
ATOM	4627	O2*	C	A	225	93.739	69.096	-11.299	1.00	59.68	A16S
ATOM	4628	C3*	C	A	225	95.487	67.578	-12.110	1.00	59.68	A16S
ATOM	4629	O3*	C	A	225	95.883	68.614	-12.987	1.00	59.68	A16S
ATOM	4630	P	G	A	226	97.400	69.151	-12.929	1.00	64.87	A16S
ATOM	4631	O1P	G	A	226	97.576	69.986	-14.151	1.00	58.48	A16S
ATOM	4632	O2P	G	A	226	98.307	67.998	-12.685	1.00	58.48	A16S
ATOM	4633	O5*	G	A	226	97.464	70.058	-11.622	1.00	64.87	A16S
ATOM	4634	C5*	G	A	226	96.729	71.269	-11.566	1.00	64.87	A16S
ATOM	4635	C4*	G	A	226	96.635	71.768	-10.154	1.00	64.87	A16S
ATOM	4636	O4*	G	A	226	95.988	70.779	-9.305	1.00	64.87	A16S
ATOM	4637	C1*	G	A	226	96.440	70.938	-7.969	1.00	64.87	A16S
ATOM	4638	N9	G	A	226	97.106	69.718	-7.530	1.00	58.48	A16S
ATOM	4639	C4	G	A	226	97.513	69.459	-6.243	1.00	58.48	A16S
ATOM	4640	N3	G	A	226	97.307	70.257	-5.174	1.00	58.48	A16S
ATOM	4641	C2	G	A	226	97.865	69.773	-4.077	1.00	58.48	A16S
ATOM	4642	N2	G	A	226	97.766	70.451	-2.939	1.00	58.48	A16S
ATOM	4643	N1	G	A	226	98.569	68.594	-4.020	1.00	58.48	A16S
ATOM	4644	C6	G	A	226	98.801	67.752	-5.106	1.00	58.48	A16S
ATOM	4645	O6	G	A	226	99.473	66.723	-4.954	1.00	58.48	A16S
ATOM	4646	C5	G	A	226	98.194	68.261	-6.306	1.00	58.48	A16S
ATOM	4647	N7	G	A	226	98.171	67.750	-7.601	1.00	58.48	A16S
ATOM	4648	C8	G	A	226	97.507	68.643	-8.290	1.00	58.48	A16S
ATOM	4649	C2*	G	A	226	97.473	72.062	-7.973	1.00	64.87	A16S
ATOM	4650	O2*	G	A	226	96.849	73.277	-7.600	1.00	64.87	A16S
ATOM	4651	C3*	G	A	226	97.933	72.037	-9.424	1.00	64.87	A16S
ATOM	4652	O3*	G	A	226	98.570	73.233	-9.818	1.00	64.87	A16S
ATOM	4653	P	G	A	227	100.175	73.327	-9.732	1.00	50.90	A16S
ATOM	4654	O1P	G	A	227	100.556	74.501	-10.558	1.00	69.36	A16S
ATOM	4655	O2P	G	A	227	100.796	72.001	-10.017	1.00	69.36	A16S
ATOM	4656	O5*	G	A	227	100.439	73.664	-8.201	1.00	50.90	A16S
ATOM	4657	C5*	G	A	227	99.712	74.719	-7.567	1.00	50.90	A16S
ATOM	4658	C4*	G	A	227	99.747	74.551	-6.078	1.00	50.90	A16S
ATOM	4659	O4*	G	A	227	99.249	73.235	-5.731	1.00	50.90	A16S
ATOM	4660	C1*	G	A	227	99.884	72.789	-4.550	1.00	50.90	A16S
ATOM	4661	N9	G	A	227	100.534	71.510	-4.796	1.00	69.36	A16S
ATOM	4662	C4	G	A	227	101.197	70.770	-3.854	1.00	69.36	A16S
ATOM	4663	N3	G	A	227	101.351	71.105	-2.555	1.00	69.36	A16S
ATOM	4664	C2	G	A	227	102.042	70.198	-1.891	1.00	69.36	A16S
ATOM	4665	N2	G	A	227	102.286	70.376	-0.584	1.00	69.36	A16S
ATOM	4666	N1	G	A	227	102.543	69.050	-2.462	1.00	69.36	A16S
ATOM	4667	C6	G	A	227	102.390	68.686	-3.802	1.00	69.36	A16S
ATOM	4668	O6	G	A	227	102.874	67.624	-4.219	1.00	69.36	A16S
ATOM	4669	C5	G	A	227	101.654	69.653	-4.519	1.00	69.36	A16S
ATOM	4670	N7	G	A	227	101.283	69.689	-5.856	1.00	69.36	A16S
ATOM	4671	C8	G	A	227	100.621	70.809	-5.976	1.00	69.36	A16S
ATOM	4672	C2*	G	A	227	100.902	73.845	-4.138	1.00	50.90	A16S
ATOM	4673	O2*	G	A	227	100.327	74.632	-3.119	1.00	50.90	A16S
ATOM	4674	C3*	G	A	227	101.121	74.590	-5.447	1.00	50.90	A16S
ATOM	4675	O3*	G	A	227	101.563	75.916	-5.251	1.00	50.90	A16S
ATOM	4676	P	A	A	228	103.111	76.277	-5.494	1.00	57.49	A16S
ATOM	4677	O1P	A	A	228	103.239	77.763	-5.350	1.00	46.17	A16S
ATOM	4678	O2P	A	A	228	103.560	75.612	-6.746	1.00	46.17	A16S
ATOM	4679	O5*	A	A	228	103.858	75.602	-4.263	1.00	57.49	A16S
ATOM	4680	C5*	A	A	228	103.594	76.066	-2.930	1.00	57.49	A16S
ATOM	4681	C4*	A	A	228	104.287	75.195	-1.918	1.00	57.49	A16S
ATOM	4682	O4*	A	A	228	103.700	73.870	-1.928	1.00	57.49	A16S
ATOM	4683	C1*	A	A	228	104.699	72.899	-1.681	1.00	57.49	A16S
ATOM	4684	N9	A	A	228	104.821	72.059	-2.872	1.00	46.17	A16S
ATOM	4685	C4	A	A	228	105.308	70.775	-2.932	1.00	46.17	A16S
ATOM	4686	N3	A	A	228	105.755	70.020	-1.912	1.00	46.17	A16S
ATOM	4687	C2	A	A	228	106.147	68.823	-2.353	1.00	46.17	A16S
ATOM	4688	N1	A	A	228	106.147	68.337	-3.606	1.00	46.17	A16S
ATOM	4689	C6	A	A	228	105.700	69.132	-4.608	1.00	46.17	A16S
ATOM	4690	N6	A	A	228	105.712	68.665	-5.861	1.00	46.17	A16S

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ATOM	4691	C5	A	A 228	105.250	70.414	-4.269	1.00	46.17	A16S
ATOM	4692	N7	A	A 228	104.734	71.445	-5.033	1.00	46.17	A16S
ATOM	4693	C8	A	A 228	104.493	72.393	-4.162	1.00	46.17	A16S
ATOM	4694	C2*	A	A 228	105.993	73.654	-1.397	1.00	57.49	A16S
ATOM	4695	O2*	A	A 228	106.078	73.835	0.001	1.00	57.49	A16S
ATOM	4696	C3*	A	A 228	105.760	74.954	-2.161	1.00	57.49	A16S
ATOM	4697	O3*	A	A 228	106.562	76.052	-1.733	1.00	57.49	A16S
ATOM	4698	P	U	A 229	107.883	76.442	-2.576	1.00	56.61	A16S
ATOM	4699	O1P	U	A 229	108.390	77.735	-2.032	1.00	49.40	A16S
ATOM	4700	O2P	U	A 229	107.578	76.317	-4.041	1.00	49.40	A16S
ATOM	4701	O5*	U	A 229	108.932	75.310	-2.177	1.00	56.61	A16S
ATOM	4702	C5*	U	A 229	109.228	75.065	-0.790	1.00	56.61	A16S
ATOM	4703	C4*	U	A 229	109.884	73.717	-0.605	1.00	56.61	A16S
ATOM	4704	O4*	U	A 229	108.969	72.629	-0.904	1.00	56.61	A16S
ATOM	4705	C1*	U	A 229	109.695	71.537	-1.442	1.00	56.61	A16S
ATOM	4706	N1	U	A 229	109.294	71.323	-2.836	1.00	49.40	A16S
ATOM	4707	C6	U	A 229	108.768	72.334	-3.600	1.00	49.40	A16S
ATOM	4708	C2	U	A 229	109.502	70.066	-3.370	1.00	49.40	A16S
ATOM	4709	O2	U	A 229	109.939	69.134	-2.707	1.00	49.40	A16S
ATOM	4710	N3	U	A 229	109.184	69.938	-4.704	1.00	49.40	A16S
ATOM	4711	C4	U	A 229	108.676	70.919	-5.531	1.00	49.40	A16S
ATOM	4712	O4	U	A 229	108.476	70.673	-6.722	1.00	49.40	A16S
ATOM	4713	C5	U	A 229	108.461	72.180	-4.892	1.00	49.40	A16S
ATOM	4714	C2*	U	A 229	111.167	71.920	-1.444	1.00	56.61	A16S
ATOM	4715	O2*	U	A 229	111.743	71.413	-0.265	1.00	56.61	A16S
ATOM	4716	C3*	U	A 229	111.081	73.440	-1.487	1.00	56.61	A16S
ATOM	4717	O3*	U	A 229	112.252	74.077	-1.020	1.00	56.61	A16S
ATOM	4718	P	G	A 230	113.427	74.392	-2.060	1.00	55.81	A16S
ATOM	4719	O1P	G	A 230	114.518	75.025	-1.263	1.00	52.43	A16S
ATOM	4720	O2P	G	A 230	112.857	75.099	-3.243	1.00	52.43	A16S
ATOM	4721	O5*	G	A 230	113.890	72.952	-2.568	1.00	55.81	A16S
ATOM	4722	C5*	G	A 230	114.594	72.063	-1.689	1.00	55.81	A16S
ATOM	4723	C4*	G	A 230	114.937	70.775	-2.393	1.00	55.81	A16S
ATOM	4724	O4*	G	A 230	113.721	70.077	-2.755	1.00	55.81	A16S
ATOM	4725	C1*	G	A 230	113.916	69.380	-3.980	1.00	55.81	A16S
ATOM	4726	N9	G	A 230	113.013	69.944	-4.976	1.00	52.43	A16S
ATOM	4727	C4	G	A 230	112.621	69.357	-6.156	1.00	52.43	A16S
ATOM	4728	N3	G	A 230	112.970	68.131	-6.587	1.00	52.43	A16S
ATOM	4729	C2	G	A 230	112.410	67.844	-7.755	1.00	52.43	A16S
ATOM	4730	N2	G	A 230	112.585	66.640	-8.313	1.00	52.43	A16S
ATOM	4731	N1	G	A 230	111.619	68.712	-8.462	1.00	52.43	A16S
ATOM	4732	C6	G	A 230	111.270	69.989	-8.049	1.00	52.43	A16S
ATOM	4733	O6	G	A 230	110.575	70.707	-8.782	1.00	52.43	A16S
ATOM	4734	C5	G	A 230	111.815	70.289	-6.776	1.00	52.43	A16S
ATOM	4735	N7	G	A 230	111.681	71.427	-5.991	1.00	52.43	A16S
ATOM	4736	C8	G	A 230	112.408	71.179	-4.935	1.00	52.43	A16S
ATOM	4737	C2*	G	A 230	115.362	69.606	-4.413	1.00	55.81	A16S
ATOM	4738	O2*	G	A 230	116.173	68.544	-3.967	1.00	55.81	A16S
ATOM	4739	C3*	G	A 230	115.687	70.909	-3.704	1.00	55.81	A16S
ATOM	4740	O3*	G	A 230	117.077	71.067	-3.537	1.00	55.81	A16S
ATOM	4741	P	G	A 231	117.911	71.856	-4.661	1.00	55.81	A16S
ATOM	4742	O1P	G	A 231	119.322	71.730	-4.177	1.00	56.76	A16S
ATOM	4743	O2P	G	A 231	117.319	73.223	-4.866	1.00	56.76	A16S
ATOM	4744	O5*	G	A 231	117.681	71.002	-6.005	1.00	55.81	A16S
ATOM	4745	C5*	G	A 231	118.428	69.787	-6.215	1.00	55.81	A16S
ATOM	4746	C4*	G	A 231	117.884	68.949	-7.361	1.00	55.81	A16S
ATOM	4747	O4*	G	A 231	116.436	68.977	-7.407	1.00	55.81	A16S
ATOM	4748	C1*	G	A 231	116.007	68.534	-8.686	1.00	55.81	A16S
ATOM	4749	N9	G	A 231	115.064	69.488	-9.260	1.00	56.76	A16S
ATOM	4750	C4	G	A 231	114.469	69.374	-10.492	1.00	56.76	A16S
ATOM	4751	N3	G	A 231	114.614	68.342	-11.344	1.00	56.76	A16S
ATOM	4752	C2	G	A 231	113.959	68.536	-12.466	1.00	56.76	A16S
ATOM	4753	N2	G	A 231	113.997	67.607	-13.424	1.00	56.76	A16S
ATOM	4754	N1	G	A 231	113.225	69.652	-12.733	1.00	56.76	A16S
ATOM	4755	C6	G	A 231	113.071	70.732	-11.875	1.00	56.76	A16S
ATOM	4756	O6	G	A 231	112.415	71.719	-12.234	1.00	56.76	A16S
ATOM	4757	C5	G	A 231	113.751	70.528	-10.660	1.00	56.76	A16S
ATOM	4758	N7	G	A 231	113.847	71.335	-9.539	1.00	56.76	A16S
ATOM	4759	C8	G	A 231	114.631	70.675	-8.731	1.00	56.76	A16S
ATOM	4760	C2*	G	A 231	117.242	68.453	-9.582	1.00	55.81	A16S
ATOM	4761	O2*	G	A 231	117.585	67.098	-9.781	1.00	55.81	A16S
ATOM	4762	C3*	G	A 231	118.265	69.273	-8.795	1.00	55.81	A16S
ATOM	4763	O3*	G	A 231	119.596	68.881	-9.143	1.00	55.81	A16S
ATOM	4764	P	G	A 232	120.265	69.426	-10.519	1.00	47.84	A16S
ATOM	4765	O1P	G	A 232	121.691	68.972	-10.492	1.00	51.22	A16S
ATOM	4766	O2P	G	A 232	119.960	70.887	-10.704	1.00	51.22	A16S
ATOM	4767	O5*	G	A 232	119.515	68.592	-11.660	1.00	47.84	A16S

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ATOM	4768	C5*	G	A	232	119.725	67.173	-11.779	1.00	47.84	A16S
ATOM	4769	C4*	G	A	232	119.287	66.681	-13.134	1.00	47.84	A16S
ATOM	4770	O4*	G	A	232	117.850	66.778	-13.238	1.00	47.84	A16S
ATOM	4771	C1*	G	A	232	117.489	67.171	-14.545	1.00	47.84	A16S
ATOM	4772	N9	G	A	232	116.894	68.494	-14.432	1.00	51.22	A16S
ATOM	4773	C4	G	A	232	116.030	69.110	-15.305	1.00	51.22	A16S
ATOM	4774	N3	G	A	232	115.573	68.601	-16.470	1.00	51.22	A16S
ATOM	4775	C2	G	A	232	114.729	69.432	-17.074	1.00	51.22	A16S
ATOM	4776	N2	G	A	232	114.149	69.091	-18.247	1.00	51.22	A16S
ATOM	4777	N1	G	A	232	114.377	70.662	-16.575	1.00	51.22	A16S
ATOM	4778	C6	G	A	232	114.834	71.202	-15.379	1.00	51.22	A16S
ATOM	4779	O6	G	A	232	114.435	72.331	-15.008	1.00	51.22	A16S
ATOM	4780	C5	G	A	232	115.733	70.321	-14.724	1.00	51.22	A16S
ATOM	4781	N7	G	A	232	116.407	70.469	-13.524	1.00	51.22	A16S
ATOM	4782	C8	G	A	232	117.086	69.368	-13.396	1.00	51.22	A16S
ATOM	4783	C2*	G	A	232	118.762	67.169	-15.383	1.00	47.84	A16S
ATOM	4784	O2*	G	A	232	118.929	65.879	-15.926	1.00	47.84	A16S
ATOM	4785	C3*	G	A	232	119.816	67.452	-14.328	1.00	47.84	A16S
ATOM	4786	O3*	G	A	232	121.103	66.999	-14.721	1.00	47.84	A16S
ATOM	4787	P	C	A	233	122.123	68.029	-15.418	1.00	46.23	A16S
ATOM	4788	O1P	C	A	233	123.361	67.288	-15.812	1.00	48.44	A16S
ATOM	4789	O2P	C	A	233	122.223	69.240	-14.546	1.00	48.44	A16S
ATOM	4790	O5*	C	A	233	121.384	68.431	-16.765	1.00	46.23	A16S
ATOM	4791	C5*	C	A	233	121.173	67.454	-17.767	1.00	46.23	A16S
ATOM	4792	C4*	C	A	233	120.329	68.019	-18.858	1.00	46.23	A16S
ATOM	4793	O4*	C	A	233	118.995	68.272	-18.361	1.00	46.23	A16S
ATOM	4794	C1*	C	A	233	118.462	69.428	-18.989	1.00	46.23	A16S
ATOM	4795	N1	C	A	233	118.251	70.462	-17.962	1.00	48.44	A16S
ATOM	4796	C6	C	A	233	118.841	70.358	-16.736	1.00	48.44	A16S
ATOM	4797	C2	C	A	233	117.446	71.566	-18.265	1.00	48.44	A16S
ATOM	4798	O2	C	A	233	116.924	71.640	-19.389	1.00	48.44	A16S
ATOM	4799	N3	C	A	233	117.263	72.528	-17.331	1.00	48.44	A16S
ATOM	4800	C4	C	A	233	117.853	72.418	-16.140	1.00	48.44	A16S
ATOM	4801	N4	C	A	233	117.658	73.391	-15.246	1.00	48.44	A16S
ATOM	4802	C5	C	A	233	118.672	71.304	-15.807	1.00	48.44	A16S
ATOM	4803	C2*	C	A	233	119.497	69.892	-20.006	1.00	46.23	A16S
ATOM	4804	O2*	C	A	233	119.229	69.254	-21.241	1.00	46.23	A16S
ATOM	4805	C3*	C	A	233	120.775	69.364	-19.378	1.00	46.23	A16S
ATOM	4806	O3*	C	A	233	121.826	69.250	-20.301	1.00	46.23	A16S
ATOM	4807	P	C	A	234	122.817	70.491	-20.506	1.00	52.82	A16S
ATOM	4808	O1P	C	A	234	123.858	70.009	-21.456	1.00	41.81	A16S
ATOM	4809	O2P	C	A	234	123.215	71.062	-19.189	1.00	41.81	A16S
ATOM	4810	O5*	C	A	234	121.912	71.569	-21.245	1.00	52.82	A16S
ATOM	4811	C5*	C	A	234	121.334	71.273	-22.528	1.00	52.82	A16S
ATOM	4812	C4*	C	A	234	120.549	72.457	-23.028	1.00	52.82	A16S
ATOM	4813	O4*	C	A	234	119.394	72.683	-22.184	1.00	52.82	A16S
ATOM	4814	C1*	C	A	234	119.171	74.071	-22.028	1.00	52.82	A16S
ATOM	4815	N1	C	A	234	119.396	74.406	-20.621	1.00	41.81	A16S
ATOM	4816	C6	C	A	234	120.027	73.524	-19.792	1.00	41.81	A16S
ATOM	4817	C2	C	A	234	118.969	75.647	-20.140	1.00	41.81	A16S
ATOM	4818	O2	C	A	234	118.363	76.413	-20.909	1.00	41.81	A16S
ATOM	4819	N3	C	A	234	119.222	75.981	-18.850	1.00	41.81	A16S
ATOM	4820	C4	C	A	234	119.860	75.113	-18.052	1.00	41.81	A16S
ATOM	4821	N4	C	A	234	120.121	75.479	-16.788	1.00	41.81	A16S
ATOM	4822	C5	C	A	234	120.273	73.830	-18.515	1.00	41.81	A16S
ATOM	4823	C2*	C	A	234	120.176	74.790	-22.916	1.00	52.82	A16S
ATOM	4824	O2*	C	A	234	119.544	75.024	-24.156	1.00	52.82	A16S
ATOM	4825	C3*	C	A	234	121.300	73.766	-22.976	1.00	52.82	A16S
ATOM	4826	O3*	C	A	234	122.168	73.893	-24.080	1.00	52.82	A16S
ATOM	4827	P	C	A	235	123.510	74.760	-23.923	1.00	47.70	A16S
ATOM	4828	O1P	C	A	235	124.290	74.509	-25.168	1.00	44.44	A16S
ATOM	4829	O2P	C	A	235	124.136	74.468	-22.582	1.00	44.44	A16S
ATOM	4830	O5*	C	A	235	122.969	76.267	-23.935	1.00	47.70	A16S
ATOM	4831	C5*	C	A	235	122.263	76.771	-25.086	1.00	47.70	A16S
ATOM	4832	C4*	C	A	235	121.654	78.119	-24.801	1.00	47.70	A16S
ATOM	4833	O4*	C	A	235	120.715	77.997	-23.712	1.00	47.70	A16S
ATOM	4834	C1*	C	A	235	120.679	79.207	-22.975	1.00	47.70	A16S
ATOM	4835	N1	C	A	235	121.065	78.930	-21.582	1.00	44.44	A16S
ATOM	4836	C6	C	A	235	121.616	77.736	-21.227	1.00	44.44	A16S
ATOM	4837	C2	C	A	235	120.851	79.916	-20.623	1.00	44.44	A16S
ATOM	4838	O2	C	A	235	120.363	81.000	-20.975	1.00	44.44	A16S
ATOM	4839	N3	C	A	235	121.178	79.675	-19.342	1.00	44.44	A16S
ATOM	4840	C4	C	A	235	121.705	78.505	-19.001	1.00	44.44	A16S
ATOM	4841	N4	C	A	235	122.015	78.309	-17.717	1.00	44.44	A16S
ATOM	4842	C5	C	A	235	121.943	77.482	-19.958	1.00	44.44	A16S
ATOM	4843	C2*	C	A	235	121.641	80.186	-23.640	1.00	47.70	A16S
ATOM	4844	O2*	C	A	235	120.920	81.056	-24.500	1.00	47.70	A16S

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ATOM	4845	C3*	C	A	235	122.586	79.231	-24.356	1.00	47.70	A16S
ATOM	4846	O3*	C	A	235	123.246	79.866	-25.434	1.00	47.70	A16S
ATOM	4847	P	G	A	236	124.659	80.597	-25.177	1.00	37.78	A16S
ATOM	4848	O1P	G	A	236	125.306	80.674	-26.529	1.00	39.75	A16S
ATOM	4849	O2P	G	A	236	125.379	79.915	-24.047	1.00	39.75	A16S
ATOM	4850	O5*	G	A	236	124.248	82.061	-24.689	1.00	37.78	A16S
ATOM	4851	C5*	G	A	236	123.690	83.009	-25.608	1.00	37.78	A16S
ATOM	4852	C4*	G	A	236	123.632	84.375	-24.977	1.00	37.78	A16S
ATOM	4853	O4*	G	A	236	122.695	84.366	-23.875	1.00	37.78	A16S
ATOM	4854	C1*	G	A	236	123.181	85.166	-22.815	1.00	37.78	A16S
ATOM	4855	N9	G	A	236	123.428	84.279	-21.687	1.00	39.75	A16S
ATOM	4856	C4	G	A	236	123.563	84.613	-20.352	1.00	39.75	A16S
ATOM	4857	N3	G	A	236	123.472	85.851	-19.816	1.00	39.75	A16S
ATOM	4858	C2	G	A	236	123.633	85.833	-18.492	1.00	39.75	A16S
ATOM	4859	N2	G	A	236	123.536	86.965	-17.780	1.00	39.75	A16S
ATOM	4860	N1	G	A	236	123.887	84.709	-17.767	1.00	39.75	A16S
ATOM	4861	C6	G	A	236	123.994	83.431	-18.291	1.00	39.75	A16S
ATOM	4862	O6	G	A	236	124.234	82.466	-17.533	1.00	39.75	A16S
ATOM	4863	C5	G	A	236	123.800	83.425	-19.707	1.00	39.75	A16S
ATOM	4864	N7	G	A	236	123.810	82.368	-20.608	1.00	39.75	A16S
ATOM	4865	C8	G	A	236	123.587	82.921	-21.763	1.00	39.75	A16S
ATOM	4866	C2*	G	A	236	124.470	85.824	-23.303	1.00	37.78	A16S
ATOM	4867	O2*	G	A	236	124.191	87.101	-23.840	1.00	37.78	A16S
ATOM	4868	C3*	G	A	236	124.931	84.838	-24.362	1.00	37.78	A16S
ATOM	4869	O3*	G	A	236	125.783	85.429	-25.319	1.00	37.78	A16S
ATOM	4870	P	C	A	237	127.373	85.288	-25.147	1.00	43.60	A16S
ATOM	4871	O1P	C	A	237	127.937	86.082	-26.275	1.00	44.72	A16S
ATOM	4872	O2P	C	A	237	127.733	83.848	-25.007	1.00	44.72	A16S
ATOM	4873	O5*	C	A	237	127.675	86.044	-23.778	1.00	43.60	A16S
ATOM	4874	C5*	C	A	237	127.523	87.461	-23.723	1.00	43.60	A16S
ATOM	4875	C4*	C	A	237	127.658	87.958	-22.318	1.00	43.60	A16S
ATOM	4876	O4*	C	A	237	126.596	87.402	-21.508	1.00	43.60	A16S
ATOM	4877	C1*	C	A	237	127.058	87.218	-20.184	1.00	43.60	A16S
ATOM	4878	N1	C	A	237	127.045	85.780	-19.876	1.00	44.72	A16S
ATOM	4879	C6	C	A	237	126.983	84.835	-20.866	1.00	44.72	A16S
ATOM	4880	C2	C	A	237	127.136	85.394	-18.539	1.00	44.72	A16S
ATOM	4881	O2	C	A	237	127.164	86.276	-17.667	1.00	44.72	A16S
ATOM	4882	N3	C	A	237	127.198	84.078	-18.231	1.00	44.72	A16S
ATOM	4883	C4	C	A	237	127.177	83.166	-19.202	1.00	44.72	A16S
ATOM	4884	N4	C	A	237	127.288	81.890	-18.853	1.00	44.72	A16S
ATOM	4885	C5	C	A	237	127.051	83.528	-20.576	1.00	44.72	A16S
ATOM	4886	C2*	C	A	237	128.494	87.737	-20.130	1.00	43.60	A16S
ATOM	4887	O2*	C	A	237	128.481	89.093	-19.737	1.00	43.60	A16S
ATOM	4888	C3*	C	A	237	128.919	87.571	-21.576	1.00	43.60	A16S
ATOM	4889	O3*	C	A	237	130.011	88.393	-21.902	1.00	43.60	A16S
ATOM	4890	P	G	A	238	131.476	87.743	-21.981	1.00	36.68	A16S
ATOM	4891	O1P	G	A	238	132.312	88.793	-22.630	1.00	44.57	A16S
ATOM	4892	O2P	G	A	238	131.388	86.386	-22.604	1.00	44.57	A16S
ATOM	4893	O5*	G	A	238	131.913	87.592	-20.453	1.00	36.68	A16S
ATOM	4894	C5*	G	A	238	132.125	88.765	-19.673	1.00	36.68	A16S
ATOM	4895	C4*	G	A	238	132.358	88.427	-18.229	1.00	36.68	A16S
ATOM	4896	O4*	G	A	238	131.185	87.775	-17.686	1.00	36.68	A16S
ATOM	4897	C1*	G	A	238	131.573	86.851	-16.677	1.00	36.68	A16S
ATOM	4898	N9	G	A	238	131.142	85.514	-17.092	1.00	44.57	A16S
ATOM	4899	C4	G	A	238	131.049	84.390	-16.297	1.00	44.57	A16S
ATOM	4900	N3	G	A	238	131.343	84.317	-14.980	1.00	44.57	A16S
ATOM	4901	C2	G	A	238	131.137	83.098	-14.497	1.00	44.57	A16S
ATOM	4902	N2	G	A	238	131.372	82.839	-13.202	1.00	44.57	A16S
ATOM	4903	N1	G	A	238	130.684	82.043	-15.244	1.00	44.57	A16S
ATOM	4904	C6	G	A	238	130.373	82.098	-16.594	1.00	44.57	A16S
ATOM	4905	O6	G	A	238	129.963	81.089	-17.169	1.00	44.57	A16S
ATOM	4906	C5	G	A	238	130.587	83.390	-17.129	1.00	44.57	A16S
ATOM	4907	N7	G	A	238	130.401	83.867	-18.420	1.00	44.57	A16S
ATOM	4908	C8	G	A	238	130.741	85.127	-18.352	1.00	44.57	A16S
ATOM	4909	C2*	G	A	238	133.089	86.975	-16.519	1.00	36.68	A16S
ATOM	4910	O2*	G	A	238	133.371	87.932	-15.515	1.00	36.68	A16S
ATOM	4911	C3*	G	A	238	133.492	87.480	-17.898	1.00	36.68	A16S
ATOM	4912	O3*	G	A	238	134.767	88.096	-17.906	1.00	36.68	A16S
ATOM	4913	P	U	A	239	136.022	87.257	-18.452	1.00	53.39	A16S
ATOM	4914	O1P	U	A	239	137.217	88.133	-18.402	1.00	53.51	A16S
ATOM	4915	O2P	U	A	239	135.647	86.592	-19.734	1.00	53.51	A16S
ATOM	4916	O5*	U	A	239	136.199	86.123	-17.354	1.00	53.39	A16S
ATOM	4917	C5*	U	A	239	136.568	86.467	-16.011	1.00	53.39	A16S
ATOM	4918	C4*	U	A	239	136.820	85.218	-15.208	1.00	53.39	A16S
ATOM	4919	O4*	U	A	239	135.562	84.541	-14.967	1.00	53.39	A16S
ATOM	4920	C1*	U	A	239	135.771	83.140	-14.977	1.00	53.39	A16S
ATOM	4921	N1	U	A	239	134.935	82.540	-16.033	1.00	53.51	A16S

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ATOM	4922	C6	U	A	239	134.854	83.099	-17.287	1.00	53.51	A16S
ATOM	4923	C2	U	A	239	134.241	81.374	-15.735	1.00	53.51	A16S
ATOM	4924	O2	U	A	239	134.251	80.856	-14.631	1.00	53.51	A16S
ATOM	4925	N3	U	A	239	133.534	80.834	-16.779	1.00	53.51	A16S
ATOM	4926	C4	U	A	239	133.445	81.322	-18.060	1.00	53.51	A16S
ATOM	4927	O4	U	A	239	132.904	80.635	-18.930	1.00	53.51	A16S
ATOM	4928	C5	U	A	239	134.151	82.545	-18.279	1.00	53.51	A16S
ATOM	4929	C2*	U	A	239	137.270	82.891	-15.182	1.00	53.39	A16S
ATOM	4930	O2*	U	A	239	137.909	82.762	-13.930	1.00	53.39	A16S
ATOM	4931	C3*	U	A	239	137.715	84.174	-15.867	1.00	53.39	A16S
ATOM	4932	O3*	U	A	239	139.100	84.406	-15.612	1.00	53.39	A16S
ATOM	4933	P	C	A	240	140.138	84.530	-16.841	1.00	54.70	A16S
ATOM	4934	O1P	C	A	240	140.083	85.962	-17.272	1.00	32.00	A16S
ATOM	4935	O2P	C	A	240	139.911	83.450	-17.845	1.00	32.00	A16S
ATOM	4936	O5*	C	A	240	141.551	84.243	-16.162	1.00	54.70	A16S
ATOM	4937	C5*	C	A	240	142.038	85.076	-15.097	1.00	54.70	A16S
ATOM	4938	C4*	C	A	240	143.425	84.642	-14.689	1.00	54.70	A16S
ATOM	4939	O4*	C	A	240	143.349	83.313	-14.114	1.00	54.70	A16S
ATOM	4940	C1*	C	A	240	144.498	82.564	-14.472	1.00	54.70	A16S
ATOM	4941	N1	C	A	240	144.066	81.447	-15.334	1.00	32.00	A16S
ATOM	4942	C6	C	A	240	142.894	81.518	-16.033	1.00	32.00	A16S
ATOM	4943	C2	C	A	240	144.875	80.319	-15.440	1.00	32.00	A16S
ATOM	4944	O2	C	A	240	145.941	80.287	-14.808	1.00	32.00	A16S
ATOM	4945	N3	C	A	240	144.486	79.296	-16.236	1.00	32.00	A16S
ATOM	4946	C4	C	A	240	143.342	79.380	-16.915	1.00	32.00	A16S
ATOM	4947	N4	C	A	240	142.989	78.356	-17.690	1.00	32.00	A16S
ATOM	4948	C5	C	A	240	142.503	80.521	-16.831	1.00	32.00	A16S
ATOM	4949	C2*	C	A	240	145.433	83.513	-15.219	1.00	54.70	A16S
ATOM	4950	O2*	C	A	240	146.298	84.146	-14.302	1.00	54.70	A16S
ATOM	4951	C3*	C	A	240	144.445	84.501	-15.807	1.00	54.70	A16S
ATOM	4952	O3*	C	A	240	145.069	85.718	-16.157	1.00	54.70	A16S
ATOM	4953	P	C	A	241	145.665	85.898	-17.642	1.00	48.63	A16S
ATOM	4954	O1P	C	A	241	146.089	87.320	-17.716	1.00	46.70	A16S
ATOM	4955	O2P	C	A	241	144.729	85.358	-18.673	1.00	46.70	A16S
ATOM	4956	O5*	C	A	241	146.952	84.956	-17.645	1.00	48.63	A16S
ATOM	4957	C5*	C	A	241	148.050	85.213	-16.750	1.00	48.63	A16S
ATOM	4958	C4*	C	A	241	149.183	84.254	-17.018	1.00	48.63	A16S
ATOM	4959	O4*	C	A	241	148.812	82.921	-16.583	1.00	48.63	A16S
ATOM	4960	C1*	C	A	241	149.315	81.962	-17.496	1.00	48.63	A16S
ATOM	4961	N1	C	A	241	148.167	81.267	-18.132	1.00	46.70	A16S
ATOM	4962	C6	C	A	241	146.946	81.871	-18.221	1.00	46.70	A16S
ATOM	4963	C2	C	A	241	148.343	79.971	-18.632	1.00	46.70	A16S
ATOM	4964	O2	C	A	241	149.461	79.454	-18.568	1.00	46.70	A16S
ATOM	4965	N3	C	A	241	147.292	79.318	-19.176	1.00	46.70	A16S
ATOM	4966	C4	C	A	241	146.103	79.912	-19.237	1.00	46.70	A16S
ATOM	4967	N4	C	A	241	145.085	79.235	-19.766	1.00	46.70	A16S
ATOM	4968	C5	C	A	241	145.897	81.234	-18.757	1.00	46.70	A16S
ATOM	4969	C2*	C	A	241	150.198	82.715	-18.487	1.00	48.63	A16S
ATOM	4970	O2*	C	A	241	151.495	82.759	-17.934	1.00	48.63	A16S
ATOM	4971	C3*	C	A	241	149.559	84.093	-18.477	1.00	48.63	A16S
ATOM	4972	O3*	C	A	241	150.438	85.115	-18.911	1.00	48.63	A16S
ATOM	4973	P	C	A	242	150.436	85.556	-20.461	1.00	56.84	A16S
ATOM	4974	O1P	C	A	242	151.244	86.797	-20.601	1.00	49.75	A16S
ATOM	4975	O2P	C	A	242	149.045	85.525	-20.978	1.00	49.75	A16S
ATOM	4976	O5*	C	A	242	151.240	84.390	-21.171	1.00	56.84	A16S
ATOM	4977	C5*	C	A	242	152.614	84.197	-20.880	1.00	56.84	A16S
ATOM	4978	C4*	C	A	242	153.137	83.075	-21.703	1.00	56.84	A16S
ATOM	4979	O4*	C	A	242	152.581	81.830	-21.229	1.00	56.84	A16S
ATOM	4980	C1*	C	A	242	152.348	80.965	-22.330	1.00	56.84	A16S
ATOM	4981	N1	C	A	242	150.923	80.598	-22.361	1.00	49.75	A16S
ATOM	4982	C6	C	A	242	149.966	81.471	-21.940	1.00	49.75	A16S
ATOM	4983	C2	C	A	242	150.559	79.338	-22.845	1.00	49.75	A16S
ATOM	4984	O2	C	A	242	151.446	78.548	-23.187	1.00	49.75	A16S
ATOM	4985	N3	C	A	242	149.254	79.010	-22.923	1.00	49.75	A16S
ATOM	4986	C4	C	A	242	148.330	79.878	-22.527	1.00	49.75	A16S
ATOM	4987	N4	C	A	242	147.055	79.530	-22.641	1.00	49.75	A16S
ATOM	4988	C5	C	A	242	148.670	81.152	-22.002	1.00	49.75	A16S
ATOM	4989	C2*	C	A	242	152.790	81.693	-23.598	1.00	56.84	A16S
ATOM	4990	O2*	C	A	242	154.112	81.299	-23.914	1.00	56.84	A16S
ATOM	4991	C3*	C	A	242	152.713	83.147	-23.155	1.00	56.84	A16S
ATOM	4992	O3*	C	A	242	153.583	83.988	-23.881	1.00	56.84	A16S
ATOM	4993	P	A	A	243	153.088	84.632	-25.261	1.00	46.65	A16S
ATOM	4994	O1P	A	A	243	154.300	85.198	-25.927	1.00	44.38	A16S
ATOM	4995	O2P	A	A	243	151.911	85.502	-24.998	1.00	44.38	A16S
ATOM	4996	O5*	A	A	243	152.601	83.380	-26.102	1.00	46.65	A16S
ATOM	4997	C5*	A	A	243	153.543	82.409	-26.508	1.00	46.65	A16S
ATOM	4998	C4*	A	A	243	153.423	82.174	-27.977	1.00	46.65	A16S

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ATOM	4999	O4*	A	A 243	152.098	81.666	-28.232	1.00	46.65	A16S
ATOM	5000	C1*	A	A 243	151.627	82.162	-29.457	1.00	46.65	A16S
ATOM	5001	N9	A	A 243	150.169	82.086	-29.403	1.00	44.38	A16S
ATOM	5002	C4	A	A 243	149.445	80.978	-29.760	1.00	44.38	A16S
ATOM	5003	N3	A	A 243	149.919	79.826	-30.252	1.00	44.38	A16S
ATOM	5004	C2	A	A 243	148.927	78.974	-30.471	1.00	44.38	A16S
ATOM	5005	N1	A	A 243	147.622	79.135	-30.269	1.00	44.38	A16S
ATOM	5006	C6	A	A 243	147.189	80.306	-29.780	1.00	44.38	A16S
ATOM	5007	N6	A	A 243	145.896	80.467	-29.591	1.00	44.38	A16S
ATOM	5008	C5	A	A 243	148.130	81.286	-29.504	1.00	44.38	A16S
ATOM	5009	N7	A	A 243	148.014	82.574	-29.008	1.00	44.38	A16S
ATOM	5010	C8	A	A 243	149.250	83.010	-28.975	1.00	44.38	A16S
ATOM	5011	C2*	A	A 243	152.254	83.542	-29.641	1.00	46.65	A16S
ATOM	5012	O2*	A	A 243	152.381	83.662	-31.034	1.00	46.65	A16S
ATOM	5013	C3*	A	A 243	153.580	83.384	-28.879	1.00	46.65	A16S
ATOM	5014	O3*	A	A 243	154.911	83.812	-29.258	1.00	46.65	A16S
ATOM	5015	P	U	A 244	155.710	83.132	-30.500	1.00	45.20	A16S
ATOM	5016	O1P	U	A 244	156.860	84.063	-30.713	1.00	47.89	A16S
ATOM	5017	O2P	U	A 244	154.829	82.778	-31.642	1.00	47.89	A16S
ATOM	5018	O5*	U	A 244	156.296	81.760	-29.939	1.00	45.20	A16S
ATOM	5019	C5*	U	A 244	156.338	81.542	-28.547	1.00	45.20	A16S
ATOM	5020	C4*	U	A 244	156.833	80.166	-28.213	1.00	45.20	A16S
ATOM	5021	O4*	U	A 244	158.225	80.020	-28.609	1.00	45.20	A16S
ATOM	5022	C1*	U	A 244	159.058	79.981	-27.460	1.00	45.20	A16S
ATOM	5023	N1	U	A 244	160.280	80.745	-27.782	1.00	47.89	A16S
ATOM	5024	C6	U	A 244	160.183	82.041	-28.233	1.00	47.89	A16S
ATOM	5025	C2	U	A 244	161.541	80.144	-27.636	1.00	47.89	A16S
ATOM	5026	O2	U	A 244	161.715	79.024	-27.240	1.00	47.89	A16S
ATOM	5027	N3	U	A 244	162.604	80.931	-27.983	1.00	47.89	A16S
ATOM	5028	C4	U	A 244	162.564	82.221	-28.452	1.00	47.89	A16S
ATOM	5029	O4	U	A 244	163.611	82.777	-28.782	1.00	47.89	A16S
ATOM	5030	C5	U	A 244	161.252	82.776	-28.563	1.00	47.89	A16S
ATOM	5031	C2*	U	A 244	158.201	80.552	-26.313	1.00	45.20	A16S
ATOM	5032	O2*	U	A 244	158.514	80.162	-24.985	1.00	45.20	A16S
ATOM	5033	C3*	U	A 244	156.811	80.072	-26.702	1.00	45.20	A16S
ATOM	5034	O3*	U	A 244	156.576	78.735	-26.279	1.00	45.20	A16S
ATOM	5035	P	C	A 245	155.070	78.236	-26.013	1.00	42.73	A16S
ATOM	5036	O1P	C	A 245	154.356	79.352	-25.333	1.00	53.00	A16S
ATOM	5037	O2P	C	A 245	155.136	76.896	-25.346	1.00	53.00	A16S
ATOM	5038	O5*	C	A 245	154.464	78.043	-27.483	1.00	42.73	A16S
ATOM	5039	C5*	C	A 245	154.770	76.857	-28.240	1.00	42.73	A16S
ATOM	5040	C4*	C	A 245	153.513	76.227	-28.805	1.00	42.73	A16S
ATOM	5041	O4*	C	A 245	152.496	76.096	-27.777	1.00	42.73	A16S
ATOM	5042	C1*	C	A 245	151.214	76.196	-28.376	1.00	42.73	A16S
ATOM	5043	N1	C	A 245	150.457	77.302	-27.766	1.00	53.00	A16S
ATOM	5044	C6	C	A 245	151.084	78.292	-27.061	1.00	53.00	A16S
ATOM	5045	C2	C	A 245	149.067	77.333	-27.938	1.00	53.00	A16S
ATOM	5046	O2	C	A 245	148.523	76.426	-28.586	1.00	53.00	A16S
ATOM	5047	N3	C	A 245	148.356	78.356	-27.406	1.00	53.00	A16S
ATOM	5048	C4	C	A 245	148.982	79.323	-26.731	1.00	53.00	A16S
ATOM	5049	N4	C	A 245	148.250	80.319	-26.237	1.00	53.00	A16S
ATOM	5050	C5	C	A 245	150.391	79.314	-26.535	1.00	53.00	A16S
ATOM	5051	C2*	C	A 245	151.402	76.428	-29.874	1.00	42.73	A16S
ATOM	5052	O2*	C	A 245	151.268	75.202	-30.556	1.00	42.73	A16S
ATOM	5053	C3*	C	A 245	152.823	76.965	-29.940	1.00	42.73	A16S
ATOM	5054	O3*	C	A 245	153.395	76.592	-31.180	1.00	42.73	A16S
ATOM	5055	P	A	A 246	153.211	77.537	-32.461	1.00	45.71	A16S
ATOM	5056	O1P	A	A 246	154.060	76.939	-33.519	1.00	42.83	A16S
ATOM	5057	O2P	A	A 246	153.403	78.942	-32.062	1.00	42.83	A16S
ATOM	5058	O5*	A	A 246	151.687	77.410	-32.896	1.00	45.71	A16S
ATOM	5059	C5*	A	A 246	151.186	76.181	-33.425	1.00	45.71	A16S
ATOM	5060	C4*	A	A 246	150.242	76.432	-34.582	1.00	45.71	A16S
ATOM	5061	O4*	A	A 246	149.024	77.088	-34.135	1.00	45.71	A16S
ATOM	5062	C1*	A	A 246	148.743	78.165	-34.995	1.00	45.71	A16S
ATOM	5063	N9	A	A 246	148.013	79.186	-34.256	1.00	42.83	A16S
ATOM	5064	C4	A	A 246	146.649	79.246	-34.195	1.00	42.83	A16S
ATOM	5065	N3	A	A 246	145.779	78.399	-34.762	1.00	42.83	A16S
ATOM	5066	C2	A	A 246	144.523	78.785	-34.532	1.00	42.83	A16S
ATOM	5067	N1	A	A 246	144.075	79.840	-33.843	1.00	42.83	A16S
ATOM	5068	C6	A	A 246	144.979	80.673	-33.280	1.00	42.83	A16S
ATOM	5069	N6	A	A 246	144.528	81.738	-32.600	1.00	42.83	A16S
ATOM	5070	C5	A	A 246	146.352	80.368	-33.455	1.00	42.83	A16S
ATOM	5071	N7	A	A 246	147.518	80.995	-33.030	1.00	42.83	A16S
ATOM	5072	C8	A	A 246	148.472	80.251	-33.528	1.00	42.83	A16S
ATOM	5073	C2*	A	A 246	150.078	78.588	-35.600	1.00	45.71	A16S
ATOM	5074	O2*	A	A 246	149.815	79.212	-36.842	1.00	45.71	A16S
ATOM	5075	C3*	A	A 246	150.754	77.234	-35.773	1.00	45.71	A16S

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ATOM	5076	O3*	A	A 246	150.124	76.662	-36.894	1.00	45.71	A16S
ATOM	5077	P	G	A 247	150.991	76.015	-38.061	1.00	52.40	A16S
ATOM	5078	O1P	G	A 247	151.583	74.764	-37.483	1.00	52.98	A16S
ATOM	5079	O2P	G	A 247	151.879	77.070	-38.617	1.00	52.98	A16S
ATOM	5080	O5*	G	A 247	149.878	75.669	-39.158	1.00	52.40	A16S
ATOM	5081	C5*	G	A 247	148.979	74.536	-38.988	1.00	52.40	A16S
ATOM	5082	C4*	G	A 247	148.153	74.689	-37.721	1.00	52.40	A16S
ATOM	5083	O4*	G	A 247	147.386	75.920	-37.794	1.00	52.40	A16S
ATOM	5084	C1*	G	A 247	146.125	75.736	-37.168	1.00	52.40	A16S
ATOM	5085	N9	G	A 247	145.087	75.807	-38.195	1.00	52.98	A16S
ATOM	5086	C4	G	A 247	143.738	75.803	-37.977	1.00	52.98	A16S
ATOM	5087	N3	G	A 247	143.136	75.776	-36.772	1.00	52.98	A16S
ATOM	5088	C2	G	A 247	141.821	75.714	-36.880	1.00	52.98	A16S
ATOM	5089	N2	G	A 247	141.065	75.656	-35.770	1.00	52.98	A16S
ATOM	5090	N1	G	A 247	141.151	75.698	-38.085	1.00	52.98	A16S
ATOM	5091	C6	G	A 247	141.759	75.741	-39.338	1.00	52.98	A16S
ATOM	5092	O6	G	A 247	141.068	75.733	-40.366	1.00	52.98	A16S
ATOM	5093	C5	G	A 247	143.164	75.792	-39.230	1.00	52.98	A16S
ATOM	5094	N7	G	A 247	144.134	75.825	-40.217	1.00	52.98	A16S
ATOM	5095	C8	G	A 247	145.259	75.844	-39.558	1.00	52.98	A16S
ATOM	5096	C2*	G	A 247	146.131	74.344	-36.541	1.00	52.40	A16S
ATOM	5097	O2*	G	A 247	146.585	74.438	-35.207	1.00	52.40	A16S
ATOM	5098	C3*	G	A 247	147.107	73.615	-37.449	1.00	52.40	A16S
ATOM	5099	O3*	G	A 247	147.637	72.451	-36.835	1.00	52.40	A16S
ATOM	5100	P	C	A 248	146.954	71.020	-37.127	1.00	54.26	A16S
ATOM	5101	O1P	C	A 248	147.852	69.985	-36.552	1.00	56.94	A16S
ATOM	5102	O2P	C	A 248	146.544	70.931	-38.553	1.00	56.94	A16S
ATOM	5103	O5*	C	A 248	145.635	71.027	-36.241	1.00	54.26	A16S
ATOM	5104	C5*	C	A 248	145.739	71.017	-34.811	1.00	54.26	A16S
ATOM	5105	C4*	C	A 248	144.381	70.863	-34.174	1.00	54.26	A16S
ATOM	5106	O4*	C	A 248	143.581	72.053	-34.391	1.00	54.26	A16S
ATOM	5107	C1*	C	A 248	142.214	71.696	-34.438	1.00	54.26	A16S
ATOM	5108	N1	C	A 248	141.695	71.990	-35.779	1.00	56.94	A16S
ATOM	5109	C6	C	A 248	142.533	72.191	-36.837	1.00	56.94	A16S
ATOM	5110	C2	C	A 248	140.309	72.025	-35.960	1.00	56.94	A16S
ATOM	5111	O2	C	A 248	139.564	71.882	-34.966	1.00	56.94	A16S
ATOM	5112	N3	C	A 248	139.814	72.213	-37.205	1.00	56.94	A16S
ATOM	5113	C4	C	A 248	140.644	72.373	-38.232	1.00	56.94	A16S
ATOM	5114	N4	C	A 248	140.113	72.518	-39.437	1.00	56.94	A16S
ATOM	5115	C5	C	A 248	142.054	72.382	-38.068	1.00	56.94	A16S
ATOM	5116	C2*	C	A 248	142.131	70.193	-34.192	1.00	54.26	A16S
ATOM	5117	O2*	C	A 248	141.975	69.930	-32.810	1.00	54.26	A16S
ATOM	5118	C3*	C	A 248	143.495	69.739	-34.675	1.00	54.26	A16S
ATOM	5119	O3*	C	A 248	143.824	68.466	-34.154	1.00	54.26	A16S
ATOM	5120	P	U	A 249	143.431	67.158	-34.995	1.00	64.09	A16S
ATOM	5121	O1P	U	A 249	143.739	66.000	-34.111	1.00	58.12	A16S
ATOM	5122	O2P	U	A 249	144.046	67.246	-36.349	1.00	58.12	A16S
ATOM	5123	O5*	U	A 249	141.847	67.276	-35.162	1.00	64.09	A16S
ATOM	5124	C5*	U	A 249	140.991	67.296	-34.000	1.00	64.09	A16S
ATOM	5125	C4*	U	A 249	139.531	67.234	-34.393	1.00	64.09	A16S
ATOM	5126	O4*	U	A 249	139.143	68.454	-35.067	1.00	64.09	A16S
ATOM	5127	C1*	U	A 249	138.128	68.170	-36.014	1.00	64.09	A16S
ATOM	5128	N1	U	A 249	138.602	68.563	-37.348	1.00	58.12	A16S
ATOM	5129	C6	U	A 249	139.936	68.527	-37.674	1.00	58.12	A16S
ATOM	5130	C2	U	A 249	137.660	68.963	-38.272	1.00	58.12	A16S
ATOM	5131	O2	U	A 249	136.471	69.013	-38.031	1.00	58.12	A16S
ATOM	5132	N3	U	A 249	138.163	69.300	-39.499	1.00	58.12	A16S
ATOM	5133	C4	U	A 249	139.480	69.270	-39.895	1.00	58.12	A16S
ATOM	5134	O4	U	A 249	139.758	69.478	-41.076	1.00	58.12	A16S
ATOM	5135	C5	U	A 249	140.395	68.861	-38.882	1.00	58.12	A16S
ATOM	5136	C2*	U	A 249	137.814	66.677	-35.925	1.00	64.09	A16S
ATOM	5137	O2*	U	A 249	136.711	66.497	-35.059	1.00	64.09	A16S
ATOM	5138	C3*	U	A 249	139.107	66.124	-35.340	1.00	64.09	A16S
ATOM	5139	O3*	U	A 249	138.908	64.882	-34.668	1.00	64.09	A16S
ATOM	5140	P	A	A 250	139.220	63.507	-35.442	1.00	63.46	A16S
ATOM	5141	O1P	A	A 250	139.378	62.442	-34.419	1.00	96.10	A16S
ATOM	5142	O2P	A	A 250	140.308	63.751	-36.420	1.00	96.10	A16S
ATOM	5143	O5*	A	A 250	137.889	63.242	-36.272	1.00	63.46	A16S
ATOM	5144	C5*	A	A 250	136.677	62.825	-35.620	1.00	63.46	A16S
ATOM	5145	C4*	A	A 250	135.812	62.061	-36.590	1.00	63.46	A16S
ATOM	5146	O4*	A	A 250	135.286	62.965	-37.592	1.00	63.46	A16S
ATOM	5147	C1*	A	A 250	135.370	62.379	-38.877	1.00	63.46	A16S
ATOM	5148	N9	A	A 250	136.149	63.306	-39.691	1.00	96.10	A16S
ATOM	5149	C4	A	A 250	135.734	63.939	-40.838	1.00	96.10	A16S
ATOM	5150	N3	A	A 250	134.573	63.759	-41.496	1.00	96.10	A16S
ATOM	5151	C2	A	A 250	134.490	64.596	-42.534	1.00	96.10	A16S
ATOM	5152	N1	A	A 250	135.370	65.526	-42.957	1.00	96.10	A16S

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ATOM	5153	C6	A	A 250	136.528	65.681	-42.275	1.00	96.10	A16S
ATOM	5154	N6	A	A 250	137.397	66.613	-42.687	1.00	96.10	A16S
ATOM	5155	C5	A	A 250	136.741	64.844	-41.156	1.00	96.10	A16S
ATOM	5156	N7	A	A 250	137.795	64.739	-40.257	1.00	96.10	A16S
ATOM	5157	C8	A	A 250	137.405	63.803	-39.423	1.00	96.10	A16S
ATOM	5158	C2*	A	A 250	135.874	60.937	-38.725	1.00	63.46	A16S
ATOM	5159	O2*	A	A 250	134.769	60.060	-38.840	1.00	63.46	A16S
ATOM	5160	C3*	A	A 250	136.560	60.983	-37.352	1.00	63.46	A16S
ATOM	5161	O3*	A	A 250	136.704	59.777	-36.557	1.00	63.46	A16S
ATOM	5162	P	G	A 251	135.411	59.024	-35.897	1.00	85.24	A16S
ATOM	5163	O1P	G	A 251	135.940	58.141	-34.801	1.00	68.83	A16S
ATOM	5164	O2P	G	A 251	134.558	58.427	-36.974	1.00	68.83	A16S
ATOM	5165	O5*	G	A 251	134.566	60.153	-35.139	1.00	85.24	A16S
ATOM	5166	C5*	G	A 251	133.761	59.809	-33.980	1.00	85.24	A16S
ATOM	5167	C4*	G	A 251	132.825	60.941	-33.603	1.00	85.24	A16S
ATOM	5168	O4*	G	A 251	131.880	61.205	-34.669	1.00	85.24	A16S
ATOM	5169	C1*	G	A 251	130.555	61.081	-34.188	1.00	85.24	A16S
ATOM	5170	N9	G	A 251	129.757	60.530	-35.280	1.00	68.83	A16S
ATOM	5171	C4	G	A 251	128.870	61.227	-36.086	1.00	68.83	A16S
ATOM	5172	N3	G	A 251	128.499	62.521	-35.937	1.00	68.83	A16S
ATOM	5173	C2	G	A 251	127.703	62.929	-36.917	1.00	68.83	A16S
ATOM	5174	N2	G	A 251	127.233	64.189	-36.924	1.00	68.83	A16S
ATOM	5175	N1	G	A 251	127.311	62.139	-37.960	1.00	68.83	A16S
ATOM	5176	C6	G	A 251	127.680	60.813	-38.145	1.00	68.83	A16S
ATOM	5177	O6	G	A 251	127.300	60.206	-39.159	1.00	68.83	A16S
ATOM	5178	C5	G	A 251	128.515	60.346	-37.082	1.00	68.83	A16S
ATOM	5179	N7	G	A 251	129.089	59.096	-36.863	1.00	68.83	A16S
ATOM	5180	C8	G	A 251	129.800	59.248	-35.776	1.00	68.83	A16S
ATOM	5181	C2*	G	A 251	130.640	60.246	-32.911	1.00	85.24	A16S
ATOM	5182	O2*	G	A 251	129.566	60.525	-32.032	1.00	85.24	A16S
ATOM	5183	C3*	G	A 251	131.993	60.682	-32.350	1.00	85.24	A16S
ATOM	5184	O3*	G	A 251	131.839	61.900	-31.618	1.00	85.24	A16S
ATOM	5185	P	U	A 252	133.103	62.884	-31.419	1.00	57.55	A16S
ATOM	5186	O1P	U	A 252	134.332	62.036	-31.330	1.00	47.65	A16S
ATOM	5187	O2P	U	A 252	132.807	63.868	-30.325	1.00	47.65	A16S
ATOM	5188	O5*	U	A 252	133.152	63.689	-32.799	1.00	57.55	A16S
ATOM	5189	C5*	U	A 252	134.155	64.675	-32.993	1.00	57.55	A16S
ATOM	5190	C4*	U	A 252	133.896	65.510	-34.222	1.00	57.55	A16S
ATOM	5191	O4*	U	A 252	134.186	64.784	-35.428	1.00	57.55	A16S
ATOM	5192	C1*	U	A 252	133.649	65.502	-36.514	1.00	57.55	A16S
ATOM	5193	N1	U	A 252	133.015	64.571	-37.461	1.00	47.65	A16S
ATOM	5194	C6	U	A 252	132.542	63.348	-37.071	1.00	47.65	A16S
ATOM	5195	C2	U	A 252	132.913	64.981	-38.772	1.00	47.65	A16S
ATOM	5196	O2	U	A 252	133.321	66.065	-39.161	1.00	47.65	A16S
ATOM	5197	N3	U	A 252	132.317	64.086	-39.615	1.00	47.65	A16S
ATOM	5198	C4	U	A 252	131.822	62.851	-39.291	1.00	47.65	A16S
ATOM	5199	O4	U	A 252	131.259	62.177	-40.157	1.00	47.65	A16S
ATOM	5200	C5	U	A 252	131.968	62.496	-37.918	1.00	47.65	A16S
ATOM	5201	C2*	U	A 252	132.708	66.570	-35.948	1.00	57.55	A16S
ATOM	5202	O2*	U	A 252	133.385	67.812	-36.036	1.00	57.55	A16S
ATOM	5203	C3*	U	A 252	132.538	66.126	-34.496	1.00	57.55	A16S
ATOM	5204	O3*	U	A 252	132.348	67.279	-33.693	1.00	57.55	A16S
ATOM	5205	P	U	A 253	130.864	67.827	-33.389	1.00	43.58	A16S
ATOM	5206	O1P	U	A 253	131.094	68.899	-32.361	1.00	46.32	A16S
ATOM	5207	O2P	U	A 253	129.922	66.709	-33.095	1.00	46.32	A16S
ATOM	5208	O5*	U	A 253	130.397	68.517	-34.747	1.00	43.58	A16S
ATOM	5209	C5*	U	A 253	130.321	69.948	-34.829	1.00	43.58	A16S
ATOM	5210	C4*	U	A 253	129.462	70.367	-35.983	1.00	43.58	A16S
ATOM	5211	O4*	U	A 253	130.125	70.005	-37.218	1.00	43.58	A16S
ATOM	5212	C1*	U	A 253	129.168	69.642	-38.187	1.00	43.58	A16S
ATOM	5213	N1	U	A 253	129.331	68.218	-38.497	1.00	46.32	A16S
ATOM	5214	C6	U	A 253	129.893	67.335	-37.599	1.00	46.32	A16S
ATOM	5215	C2	U	A 253	128.845	67.783	-39.711	1.00	46.32	A16S
ATOM	5216	O2	U	A 253	128.425	68.544	-40.557	1.00	46.32	A16S
ATOM	5217	N3	U	A 253	128.879	66.425	-39.901	1.00	46.32	A16S
ATOM	5218	C4	U	A 253	129.375	65.475	-39.028	1.00	46.32	A16S
ATOM	5219	O4	U	A 253	129.229	64.276	-39.292	1.00	46.32	A16S
ATOM	5220	C5	U	A 253	129.933	66.013	-37.817	1.00	46.32	A16S
ATOM	5221	C2*	U	A 253	127.793	69.859	-37.565	1.00	43.58	A16S
ATOM	5222	O2*	U	A 253	127.359	71.150	-37.934	1.00	43.58	A16S
ATOM	5223	C3*	U	A 253	128.103	69.705	-36.080	1.00	43.58	A16S
ATOM	5224	O3*	U	A 253	127.142	70.306	-35.220	1.00	43.58	A16S
ATOM	5225	P	G	A 254	125.758	69.537	-34.911	1.00	48.07	A16S
ATOM	5226	O1P	G	A 254	124.937	70.438	-34.064	1.00	54.11	A16S
ATOM	5227	O2P	G	A 254	126.006	68.135	-34.477	1.00	54.11	A16S
ATOM	5228	O5*	G	A 254	125.009	69.521	-36.312	1.00	48.07	A16S
ATOM	5229	C5*	G	A 254	124.368	70.718	-36.779	1.00	48.07	A16S

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ATOM	5230	C4*	G	A 254	123.788	70.501	-38.141	1.00	48.07	A16S
ATOM	5231	O4*	G	A 254	124.842	70.035	-39.022	1.00	48.07	A16S
ATOM	5232	C1*	G	A 254	124.322	69.095	-39.939	1.00	48.07	A16S
ATOM	5233	N9	G	A 254	124.942	67.801	-39.666	1.00	54.11	A16S
ATOM	5234	C4	G	A 254	124.798	66.660	-40.422	1.00	54.11	A16S
ATOM	5235	N3	G	A 254	124.117	66.558	-41.583	1.00	54.11	A16S
ATOM	5236	C2	G	A 254	124.119	65.321	-42.053	1.00	54.11	A16S
ATOM	5237	N2	G	A 254	123.511	65.048	-43.214	1.00	54.11	A16S
ATOM	5238	N1	G	A 254	124.722	64.262	-41.423	1.00	54.11	A16S
ATOM	5239	C6	G	A 254	125.425	64.340	-40.223	1.00	54.11	A16S
ATOM	5240	O6	G	A 254	125.914	63.317	-39.730	1.00	54.11	A16S
ATOM	5241	C5	G	A 254	125.457	65.672	-39.720	1.00	54.11	A16S
ATOM	5242	N7	G	A 254	126.055	66.192	-38.577	1.00	54.11	A16S
ATOM	5243	C8	G	A 254	125.730	67.458	-38.590	1.00	54.11	A16S
ATOM	5244	C2*	G	A 254	122.813	69.030	-39.700	1.00	48.07	A16S
ATOM	5245	O2*	G	A 254	122.178	69.960	-40.561	1.00	48.07	A16S
ATOM	5246	C3*	G	A 254	122.724	69.428	-38.231	1.00	48.07	A16S
ATOM	5247	O3*	G	A 254	121.447	69.921	-37.844	1.00	48.07	A16S
ATOM	5248	P	G	A 255	120.280	68.881	-37.455	1.00	53.27	A16S
ATOM	5249	O1P	G	A 255	119.068	69.688	-37.148	1.00	67.81	A16S
ATOM	5250	O2P	G	A 255	120.786	67.898	-36.458	1.00	67.81	A16S
ATOM	5251	O5*	G	A 255	119.993	68.104	-38.813	1.00	53.27	A16S
ATOM	5252	C5*	G	A 255	119.550	68.824	-39.973	1.00	53.27	A16S
ATOM	5253	C4*	G	A 255	119.224	67.872	-41.088	1.00	53.27	A16S
ATOM	5254	O4*	G	A 255	120.427	67.196	-41.524	1.00	53.27	A16S
ATOM	5255	C1*	G	A 255	120.113	65.875	-41.927	1.00	53.27	A16S
ATOM	5256	N9	G	A 255	120.885	64.945	-41.109	1.00	67.81	A16S
ATOM	5257	C4	G	A 255	121.111	63.616	-41.380	1.00	67.81	A16S
ATOM	5258	N3	G	A 255	120.648	62.933	-42.446	1.00	67.81	A16S
ATOM	5259	C2	G	A 255	121.037	61.669	-42.424	1.00	67.81	A16S
ATOM	5260	N2	G	A 255	120.666	60.836	-43.397	1.00	67.81	A16S
ATOM	5261	N1	G	A 255	121.818	61.124	-41.446	1.00	67.81	A16S
ATOM	5262	C6	G	A 255	122.303	61.805	-40.340	1.00	67.81	A16S
ATOM	5263	O6	G	A 255	122.993	61.209	-39.508	1.00	67.81	A16S
ATOM	5264	C5	G	A 255	121.895	63.160	-40.342	1.00	67.81	A16S
ATOM	5265	N7	G	A 255	122.153	64.177	-39.435	1.00	67.81	A16S
ATOM	5266	C8	G	A 255	121.533	65.215	-39.927	1.00	67.81	A16S
ATOM	5267	C2*	G	A 255	118.605	65.691	-41.771	1.00	53.27	A16S
ATOM	5268	O2*	G	A 255	117.992	65.949	-43.019	1.00	53.27	A16S
ATOM	5269	C3*	G	A 255	118.276	66.749	-40.726	1.00	53.27	A16S
ATOM	5270	O3*	G	A 255	116.926	67.179	-40.777	1.00	53.27	A16S
ATOM	5271	P	U	A 256	115.845	66.499	-39.801	1.00	64.22	A16S
ATOM	5272	O1P	U	A 256	114.589	67.293	-39.925	1.00	67.16	A16S
ATOM	5273	O2P	U	A 256	116.475	66.314	-38.463	1.00	67.16	A16S
ATOM	5274	O5*	U	A 256	115.603	65.067	-40.452	1.00	64.22	A16S
ATOM	5275	C5*	U	A 256	114.882	64.951	-41.684	1.00	64.22	A16S
ATOM	5276	C4*	U	A 256	114.814	63.515	-42.114	1.00	64.22	A16S
ATOM	5277	O4*	U	A 256	116.140	63.059	-42.475	1.00	64.22	A16S
ATOM	5278	C1*	U	A 256	116.286	61.692	-42.122	1.00	64.22	A16S
ATOM	5279	N1	U	A 256	117.334	61.591	-41.097	1.00	67.16	A16S
ATOM	5280	C6	U	A 256	117.705	62.690	-40.355	1.00	67.16	A16S
ATOM	5281	C2	U	A 256	117.929	60.352	-40.889	1.00	67.16	A16S
ATOM	5282	O2	U	A 256	117.630	59.345	-41.530	1.00	67.16	A16S
ATOM	5283	N3	U	A 256	118.886	60.337	-39.898	1.00	67.16	A16S
ATOM	5284	C4	U	A 256	119.301	61.408	-39.119	1.00	67.16	A16S
ATOM	5285	O4	U	A 256	120.198	61.249	-38.289	1.00	67.16	A16S
ATOM	5286	C5	U	A 256	118.639	62.640	-39.403	1.00	67.16	A16S
ATOM	5287	C2*	U	A 256	114.946	61.220	-41.561	1.00	64.22	A16S
ATOM	5288	O2*	U	A 256	114.160	60.653	-42.597	1.00	64.22	A16S
ATOM	5289	C3*	U	A 256	114.363	62.526	-41.055	1.00	64.22	A16S
ATOM	5290	O3*	U	A 256	112.962	62.450	-40.913	1.00	64.22	A16S
ATOM	5291	P	G	A 257	112.349	62.012	-39.499	1.00	74.49	A16S
ATOM	5292	O1P	G	A 257	110.876	62.186	-39.628	1.00	70.44	A16S
ATOM	5293	O2P	G	A 257	113.088	62.742	-38.432	1.00	70.44	A16S
ATOM	5294	O5*	G	A 257	112.735	60.464	-39.356	1.00	74.49	A16S
ATOM	5295	C5*	G	A 257	112.063	59.434	-40.135	1.00	74.49	A16S
ATOM	5296	C4*	G	A 257	112.712	58.077	-39.907	1.00	74.49	A16S
ATOM	5297	O4*	G	A 257	114.124	58.168	-40.251	1.00	74.49	A16S
ATOM	5298	C1*	G	A 257	114.898	57.376	-39.357	1.00	74.49	A16S
ATOM	5299	N9	G	A 257	115.763	58.268	-38.584	1.00	70.44	A16S
ATOM	5300	C4	G	A 257	116.861	57.911	-37.826	1.00	70.44	A16S
ATOM	5301	N3	G	A 257	117.367	56.667	-37.694	1.00	70.44	A16S
ATOM	5302	C2	G	A 257	118.401	56.640	-36.865	1.00	70.44	A16S
ATOM	5303	N2	G	A 257	119.026	55.483	-36.615	1.00	70.44	A16S
ATOM	5304	N1	G	A 257	118.897	57.747	-36.217	1.00	70.44	A16S
ATOM	5305	C6	G	A 257	118.385	59.036	-36.332	1.00	70.44	A16S
ATOM	5306	O6	G	A 257	118.883	59.962	-35.679	1.00	70.44	A16S

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ATOM	5307	C5	G	A	257	117.286	59.080	-37.226	1.00	70.44	A16S
ATOM	5308	N7	G	A	257	116.499	60.153	-37.623	1.00	70.44	A16S
ATOM	5309	C8	G	A	257	115.617	59.629	-38.431	1.00	70.44	A16S
ATOM	5310	C2*	G	A	257	113.924	56.639	-38.437	1.00	74.49	A16S
ATOM	5311	O2*	G	A	257	113.659	55.337	-38.917	1.00	74.49	A16S
ATOM	5312	C3*	G	A	257	112.709	57.557	-38.476	1.00	74.49	A16S
ATOM	5313	O3*	G	A	257	111.523	56.868	-38.107	1.00	74.49	A16S
ATOM	5314	P	G	A	258	111.070	56.857	-36.559	1.00	78.47	A16S
ATOM	5315	O1P	G	A	258	109.733	56.204	-36.518	1.00	81.17	A16S
ATOM	5316	O2P	G	A	258	111.226	58.237	-36.029	1.00	81.17	A16S
ATOM	5317	O5*	G	A	258	112.131	55.921	-35.807	1.00	78.47	A16S
ATOM	5318	C5*	G	A	258	112.088	54.490	-35.977	1.00	78.47	A16S
ATOM	5319	C4*	G	A	258	113.243	53.809	-35.270	1.00	78.47	A16S
ATOM	5320	O4*	G	A	258	114.506	54.307	-35.781	1.00	78.47	A16S
ATOM	5321	C1*	G	A	258	115.490	54.250	-34.758	1.00	78.47	A16S
ATOM	5322	N9	G	A	258	115.987	55.600	-34.501	1.00	81.17	A16S
ATOM	5323	C4	G	A	258	117.072	55.932	-33.722	1.00	81.17	A16S
ATOM	5324	N3	G	A	258	117.868	55.067	-33.065	1.00	81.17	A16S
ATOM	5325	C2	G	A	258	118.816	55.688	-32.385	1.00	81.17	A16S
ATOM	5326	N2	G	A	258	119.680	54.977	-31.657	1.00	81.17	A16S
ATOM	5327	N1	G	A	258	118.981	57.053	-32.366	1.00	81.17	A16S
ATOM	5328	C6	G	A	258	118.178	57.964	-33.044	1.00	81.17	A16S
ATOM	5329	O6	G	A	258	118.418	59.179	-32.971	1.00	81.17	A16S
ATOM	5330	C5	G	A	258	117.144	57.309	-33.763	1.00	81.17	A16S
ATOM	5331	N7	G	A	258	116.127	57.832	-34.549	1.00	81.17	A16S
ATOM	5332	C8	G	A	258	115.470	56.784	-34.968	1.00	81.17	A16S
ATOM	5333	C2*	G	A	258	114.831	53.660	-33.513	1.00	78.47	A16S
ATOM	5334	O2*	G	A	258	115.085	52.273	-33.459	1.00	78.47	A16S
ATOM	5335	C3*	G	A	258	113.361	53.968	-33.762	1.00	78.47	A16S
ATOM	5336	O3*	G	A	258	112.547	53.050	-33.045	1.00	78.47	A16S
ATOM	5337	P	G	A	259	112.161	53.367	-31.512	1.00	68.18	A16S
ATOM	5338	O1P	G	A	259	111.081	52.415	-31.108	1.00	79.74	A16S
ATOM	5339	O2P	G	A	259	111.923	54.840	-31.405	1.00	79.74	A16S
ATOM	5340	O5*	G	A	259	113.477	53.015	-30.681	1.00	68.18	A16S
ATOM	5341	C5*	G	A	259	113.998	51.674	-30.652	1.00	68.18	A16S
ATOM	5342	C4*	G	A	259	115.355	51.653	-29.992	1.00	68.18	A16S
ATOM	5343	O4*	G	A	259	116.246	52.559	-30.697	1.00	68.18	A16S
ATOM	5344	C1*	G	A	259	117.119	53.192	-29.775	1.00	68.18	A16S
ATOM	5345	N9	G	A	259	116.951	54.641	-29.886	1.00	79.74	A16S
ATOM	5346	C4	G	A	259	117.735	55.602	-29.293	1.00	79.74	A16S
ATOM	5347	N3	G	A	259	118.789	55.374	-28.484	1.00	79.74	A16S
ATOM	5348	C2	G	A	259	119.342	56.500	-28.067	1.00	79.74	A16S
ATOM	5349	N2	G	A	259	120.392	56.464	-27.231	1.00	79.74	A16S
ATOM	5350	N1	G	A	259	118.906	57.747	-28.431	1.00	79.74	A16S
ATOM	5351	C6	G	A	259	117.829	58.004	-29.263	1.00	79.74	A16S
ATOM	5352	O6	G	A	259	117.526	59.169	-29.527	1.00	79.74	A16S
ATOM	5353	C5	G	A	259	117.213	56.808	-29.704	1.00	79.74	A16S
ATOM	5354	N7	G	A	259	116.115	56.614	-30.528	1.00	79.74	A16S
ATOM	5355	C8	G	A	259	115.995	55.318	-30.606	1.00	79.74	A16S
ATOM	5356	C2*	G	A	259	116.811	52.634	-28.385	1.00	68.18	A16S
ATOM	5357	O2*	G	A	259	117.719	51.596	-28.097	1.00	68.18	A16S
ATOM	5358	C3*	G	A	259	115.384	52.130	-28.555	1.00	68.18	A16S
ATOM	5359	O3*	G	A	259	115.101	51.070	-27.666	1.00	68.18	A16S
ATOM	5360	P	G	A	260	114.457	51.399	-26.233	1.00	61.80	A16S
ATOM	5361	O1P	G	A	260	114.547	50.185	-25.381	1.00	81.18	A16S
ATOM	5362	O2P	G	A	260	113.126	52.031	-26.472	1.00	81.18	A16S
ATOM	5363	O5*	G	A	260	115.435	52.497	-25.615	1.00	61.80	A16S
ATOM	5364	C5*	G	A	260	116.793	52.173	-25.280	1.00	61.80	A16S
ATOM	5365	C4*	G	A	260	117.489	53.377	-24.701	1.00	61.80	A16S
ATOM	5366	O4*	G	A	260	117.746	54.369	-25.723	1.00	61.80	A16S
ATOM	5367	C1*	G	A	260	117.688	55.665	-25.149	1.00	61.80	A16S
ATOM	5368	N9	G	A	260	116.742	56.475	-25.910	1.00	81.18	A16S
ATOM	5369	C4	G	A	260	116.688	57.844	-25.933	1.00	81.18	A16S
ATOM	5370	N3	G	A	260	117.504	58.677	-25.261	1.00	81.18	A16S
ATOM	5371	C2	G	A	260	117.205	59.940	-25.481	1.00	81.18	A16S
ATOM	5372	N2	G	A	260	117.921	60.903	-24.894	1.00	81.18	A16S
ATOM	5373	N1	G	A	260	116.183	60.353	-26.294	1.00	81.18	A16S
ATOM	5374	C6	G	A	260	115.329	59.512	-26.995	1.00	81.18	A16S
ATOM	5375	O6	G	A	260	114.432	59.989	-27.699	1.00	81.18	A16S
ATOM	5376	C5	G	A	260	115.642	58.155	-26.771	1.00	81.18	A16S
ATOM	5377	N7	G	A	260	115.050	57.006	-27.267	1.00	81.18	A16S
ATOM	5378	C8	G	A	260	115.734	56.034	-26.730	1.00	81.18	A16S
ATOM	5379	C2*	G	A	260	117.290	55.516	-23.679	1.00	61.80	A16S
ATOM	5380	O2*	G	A	260	118.411	55.615	-22.825	1.00	61.80	A16S
ATOM	5381	C3*	G	A	260	116.687	54.124	-23.663	1.00	61.80	A16S
ATOM	5382	O3*	G	A	260	116.813	53.520	-22.409	1.00	61.80	A16S
ATOM	5383	P	U	A	261	115.529	53.427	-21.465	1.00	62.21	A16S

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ATOM	5384	O1P	U	A	261	114.320	53.267	-22.354	1.00	58.70	A16S
ATOM	5385	O2P	U	A	261	115.841	52.392	-20.431	1.00	58.70	A16S
ATOM	5386	O5*	U	A	261	115.472	54.862	-20.773	1.00	62.21	A16S
ATOM	5387	C5*	U	A	261	116.520	55.290	-19.894	1.00	62.21	A16S
ATOM	5388	C4*	U	A	261	116.383	56.761	-19.595	1.00	62.21	A16S
ATOM	5389	O4*	U	A	261	116.712	57.552	-20.767	1.00	62.21	A16S
ATOM	5390	C1*	U	A	261	115.942	58.740	-20.764	1.00	62.21	A16S
ATOM	5391	N1	U	A	261	115.186	58.807	-22.024	1.00	58.70	A16S
ATOM	5392	C6	U	A	261	114.838	57.663	-22.699	1.00	58.70	A16S
ATOM	5393	C2	U	A	261	114.809	60.059	-22.507	1.00	58.70	A16S
ATOM	5394	O2	U	A	261	115.139	61.114	-21.989	1.00	58.70	A16S
ATOM	5395	N3	U	A	261	114.036	60.027	-23.636	1.00	58.70	A16S
ATOM	5396	C4	U	A	261	113.627	58.915	-24.328	1.00	58.70	A16S
ATOM	5397	O4	U	A	261	112.863	59.051	-25.275	1.00	58.70	A16S
ATOM	5398	C5	U	A	261	114.095	57.677	-23.804	1.00	58.70	A16S
ATOM	5399	C2*	U	A	261	115.049	58.721	-19.516	1.00	62.21	A16S
ATOM	5400	O2*	U	A	261	115.661	59.473	-18.491	1.00	62.21	A16S
ATOM	5401	C3*	U	A	261	115.003	57.235	-19.176	1.00	62.21	A16S
ATOM	5402	O3*	U	A	261	114.796	57.002	-17.783	1.00	62.21	A16S
ATOM	5403	P	A	A	262	113.315	56.648	-17.236	1.00	42.40	A16S
ATOM	5404	O1P	A	A	262	112.724	55.634	-18.174	1.00	70.13	A16S
ATOM	5405	O2P	A	A	262	113.412	56.342	-15.778	1.00	70.13	A16S
ATOM	5406	O5*	A	A	262	112.512	58.020	-17.389	1.00	42.40	A16S
ATOM	5407	C5*	A	A	262	111.103	58.116	-17.101	1.00	42.40	A16S
ATOM	5408	C4*	A	A	262	110.658	59.556	-17.213	1.00	42.40	A16S
ATOM	5409	O4*	A	A	262	111.162	60.318	-16.090	1.00	42.40	A16S
ATOM	5410	C1*	A	A	262	111.603	61.582	-16.537	1.00	42.40	A16S
ATOM	5411	N9	A	A	262	113.024	61.715	-16.191	1.00	70.13	A16S
ATOM	5412	C4	A	A	262	113.760	62.880	-16.129	1.00	70.13	A16S
ATOM	5413	N3	A	A	262	113.352	64.126	-16.428	1.00	70.13	A16S
ATOM	5414	C2	A	A	262	114.318	65.009	-16.190	1.00	70.13	A16S
ATOM	5415	N1	A	A	262	115.552	64.809	-15.723	1.00	70.13	A16S
ATOM	5416	C6	A	A	262	115.938	63.549	-15.437	1.00	70.13	A16S
ATOM	5417	N6	A	A	262	117.171	63.356	-14.961	1.00	70.13	A16S
ATOM	5418	C5	A	A	262	115.008	62.514	-15.655	1.00	70.13	A16S
ATOM	5419	N7	A	A	262	115.080	61.139	-15.476	1.00	70.13	A16S
ATOM	5420	C8	A	A	262	113.887	60.712	-15.813	1.00	70.13	A16S
ATOM	5421	C2*	A	A	262	111.267	61.702	-18.026	1.00	42.40	A16S
ATOM	5422	O2*	A	A	262	110.010	62.315	-18.160	1.00	42.40	A16S
ATOM	5423	C3*	A	A	262	111.195	60.250	-18.445	1.00	42.40	A16S
ATOM	5424	O3*	A	A	262	110.294	60.073	-19.505	1.00	42.40	A16S
ATOM	5425	P	A	A	263	110.854	59.951	-20.996	1.00	42.68	A16S
ATOM	5426	O1P	A	A	263	109.722	59.715	-21.940	1.00	45.66	A16S
ATOM	5427	O2P	A	A	263	111.987	58.982	-20.949	1.00	45.66	A16S
ATOM	5428	O5*	A	A	263	111.390	61.415	-21.288	1.00	42.68	A16S
ATOM	5429	C5*	A	A	263	110.460	62.492	-21.459	1.00	42.68	A16S
ATOM	5430	C4*	A	A	263	111.199	63.780	-21.657	1.00	42.68	A16S
ATOM	5431	O4*	A	A	263	111.832	64.160	-20.410	1.00	42.68	A16S
ATOM	5432	C1*	A	A	263	113.089	64.744	-20.688	1.00	42.68	A16S
ATOM	5433	N9	A	A	263	114.123	63.994	-19.970	1.00	45.66	A16S
ATOM	5434	C4	A	A	263	115.213	64.523	-19.323	1.00	45.66	A16S
ATOM	5435	N3	A	A	263	115.516	65.818	-19.163	1.00	45.66	A16S
ATOM	5436	C2	A	A	263	116.672	65.952	-18.529	1.00	45.66	A16S
ATOM	5437	N1	A	A	263	117.501	65.013	-18.080	1.00	45.66	A16S
ATOM	5438	C6	A	A	263	117.169	63.723	-18.259	1.00	45.66	A16S
ATOM	5439	N6	A	A	263	118.013	62.783	-17.830	1.00	45.66	A16S
ATOM	5440	C5	A	A	263	115.957	63.446	-18.897	1.00	45.66	A16S
ATOM	5441	N7	A	A	263	115.325	62.257	-19.216	1.00	45.66	A16S
ATOM	5442	C8	A	A	263	114.238	62.636	-19.840	1.00	45.66	A16S
ATOM	5443	C2*	A	A	263	113.283	64.771	-22.214	1.00	42.68	A16S
ATOM	5444	O2*	A	A	263	112.916	66.043	-22.693	1.00	42.68	A16S
ATOM	5445	C3*	A	A	263	112.312	63.697	-22.688	1.00	42.68	A16S
ATOM	5446	O3*	A	A	263	111.769	63.951	-23.992	1.00	42.68	A16S
ATOM	5447	P	U	A	264	112.614	63.576	-25.315	1.00	45.73	A16S
ATOM	5448	O1P	U	A	264	111.668	63.430	-26.464	1.00	59.10	A16S
ATOM	5449	O2P	U	A	264	113.530	62.456	-24.985	1.00	59.10	A16S
ATOM	5450	O5*	U	A	264	113.503	64.876	-25.557	1.00	45.73	A16S
ATOM	5451	C5*	U	A	264	112.880	66.140	-25.838	1.00	45.73	A16S
ATOM	5452	C4*	U	A	264	113.924	67.198	-26.110	1.00	45.73	A16S
ATOM	5453	O4*	U	A	264	114.579	67.600	-24.881	1.00	45.73	A16S
ATOM	5454	C1*	U	A	264	115.951	67.849	-25.126	1.00	45.73	A16S
ATOM	5455	N1	U	A	264	116.743	66.896	-24.329	1.00	59.10	A16S
ATOM	5456	C6	U	A	264	116.259	65.650	-24.029	1.00	59.10	A16S
ATOM	5457	C2	U	A	264	117.989	67.292	-23.888	1.00	59.10	A16S
ATOM	5458	O2	U	A	264	118.457	68.380	-24.120	1.00	59.10	A16S
ATOM	5459	N3	U	A	264	118.670	66.360	-23.158	1.00	59.10	A16S
ATOM	5460	C4	U	A	264	118.243	65.099	-22.825	1.00	59.10	A16S

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ATOM	5461	O4	U	A	264	118.986	64.360	-22.179	1.00	59.10	A16S
ATOM	5462	C5	U	A	264	116.945	64.764	-23.310	1.00	59.10	A16S
ATOM	5463	C2*	U	A	264	116.172	67.712	-26.632	1.00	45.73	A16S
ATOM	5464	O2*	U	A	264	116.006	68.990	-27.223	1.00	45.73	A16S
ATOM	5465	C3*	U	A	264	115.049	66.768	-27.022	1.00	45.73	A16S
ATOM	5466	O3*	U	A	264	114.676	66.916	-28.368	1.00	45.73	A16S
ATOM	5467	P	G	A	265	115.135	65.804	-29.418	1.00	50.81	A16S
ATOM	5468	O1P	G	A	265	114.709	66.228	-30.778	1.00	63.38	A16S
ATOM	5469	O2P	G	A	265	114.731	64.467	-28.900	1.00	63.38	A16S
ATOM	5470	O5*	G	A	265	116.714	65.898	-29.339	1.00	50.81	A16S
ATOM	5471	C5*	G	A	265	117.374	67.118	-29.668	1.00	50.81	A16S
ATOM	5472	C4*	G	A	265	118.825	67.026	-29.312	1.00	50.81	A16S
ATOM	5473	O4*	G	A	265	118.977	66.961	-27.871	1.00	50.81	A16S
ATOM	5474	C1*	G	A	265	120.184	66.294	-27.565	1.00	50.81	A16S
ATOM	5475	N9	G	A	265	119.930	65.214	-26.617	1.00	63.38	A16S
ATOM	5476	C4	G	A	265	120.824	64.735	-25.690	1.00	63.38	A16S
ATOM	5477	N3	G	A	265	122.056	65.229	-25.449	1.00	63.38	A16S
ATOM	5478	C2	G	A	265	122.695	64.528	-24.531	1.00	63.38	A16S
ATOM	5479	N2	G	A	265	123.928	64.883	-24.160	1.00	63.38	A16S
ATOM	5480	N1	G	A	265	122.174	63.427	-23.907	1.00	63.38	A16S
ATOM	5481	C6	G	A	265	120.914	62.897	-24.145	1.00	63.38	A16S
ATOM	5482	O6	G	A	265	120.553	61.880	-23.543	1.00	63.38	A16S
ATOM	5483	C5	G	A	265	120.207	63.649	-25.114	1.00	63.38	A16S
ATOM	5484	N7	G	A	265	118.933	63.480	-25.628	1.00	63.38	A16S
ATOM	5485	C8	G	A	265	118.807	64.437	-26.506	1.00	63.38	A16S
ATOM	5486	C2*	G	A	265	120.773	65.772	-28.882	1.00	50.81	A16S
ATOM	5487	O2*	G	A	265	121.780	66.669	-29.316	1.00	50.81	A16S
ATOM	5488	C3*	G	A	265	119.561	65.793	-29.805	1.00	50.81	A16S
ATOM	5489	O3*	G	A	265	119.920	65.898	-31.179	1.00	50.81	A16S
ATOM	5490	P	G	A	266	120.047	64.563	-32.080	1.00	59.95	A16S
ATOM	5491	O1P	G	A	266	120.323	65.004	-33.478	1.00	86.21	A16S
ATOM	5492	O2P	G	A	266	118.908	63.653	-31.813	1.00	86.21	A16S
ATOM	5493	O5*	G	A	266	121.350	63.856	-31.512	1.00	59.95	A16S
ATOM	5494	C5*	G	A	266	122.566	64.586	-31.485	1.00	59.95	A16S
ATOM	5495	C4*	G	A	266	123.610	63.899	-30.643	1.00	59.95	A16S
ATOM	5496	O4*	G	A	266	124.015	62.643	-31.236	1.00	59.95	A16S
ATOM	5497	C1*	G	A	266	125.341	62.734	-31.698	1.00	59.95	A16S
ATOM	5498	N9	G	A	266	125.183	62.885	-33.132	1.00	86.21	A16S
ATOM	5499	C4	G	A	266	125.240	61.880	-34.047	1.00	86.21	A16S
ATOM	5500	N3	G	A	266	125.616	60.618	-33.801	1.00	86.21	A16S
ATOM	5501	C2	G	A	266	125.508	59.863	-34.877	1.00	86.21	A16S
ATOM	5502	N2	G	A	266	125.878	58.569	-34.831	1.00	86.21	A16S
ATOM	5503	N1	G	A	266	125.039	60.315	-36.086	1.00	86.21	A16S
ATOM	5504	C6	G	A	266	124.640	61.616	-36.348	1.00	86.21	A16S
ATOM	5505	O6	G	A	266	124.219	61.921	-37.460	1.00	86.21	A16S
ATOM	5506	C5	G	A	266	124.780	62.430	-35.223	1.00	86.21	A16S
ATOM	5507	N7	G	A	266	124.521	63.781	-35.066	1.00	86.21	A16S
ATOM	5508	C8	G	A	266	124.804	64.014	-33.815	1.00	86.21	A16S
ATOM	5509	C2*	G	A	266	126.010	63.853	-30.885	1.00	59.95	A16S
ATOM	5510	O2*	G	A	266	126.555	63.302	-29.706	1.00	59.95	A16S
ATOM	5511	C3*	G	A	266	124.831	64.785	-30.627	1.00	59.95	A16S
ATOM	5512	O3*	G	A	266	124.685	65.568	-29.443	1.00	59.95	A16S
ATOM	5513	P	C	A	267	125.622	65.350	-28.160	1.00	59.08	A16S
ATOM	5514	O1P	C	A	267	125.096	66.377	-27.212	1.00	56.86	A16S
ATOM	5515	O2P	C	A	267	127.087	65.344	-28.511	1.00	56.86	A16S
ATOM	5516	O5*	C	A	267	125.236	63.936	-27.535	1.00	59.08	A16S
ATOM	5517	C5*	C	A	267	125.898	63.524	-26.319	1.00	59.08	A16S
ATOM	5518	C4*	C	A	267	125.481	62.141	-25.896	1.00	59.08	A16S
ATOM	5519	O4*	C	A	267	124.088	62.128	-25.517	1.00	59.08	A16S
ATOM	5520	C1*	C	A	267	123.537	60.862	-25.808	1.00	59.08	A16S
ATOM	5521	N1	C	A	267	122.426	61.047	-26.748	1.00	56.86	A16S
ATOM	5522	C6	C	A	267	122.324	62.179	-27.507	1.00	56.86	A16S
ATOM	5523	C2	C	A	267	121.477	60.047	-26.854	1.00	56.86	A16S
ATOM	5524	O2	C	A	267	121.587	59.040	-26.139	1.00	56.86	A16S
ATOM	5525	N3	C	A	267	120.457	60.195	-27.726	1.00	56.86	A16S
ATOM	5526	C4	C	A	267	120.366	61.297	-28.465	1.00	56.86	A16S
ATOM	5527	N4	C	A	267	119.353	61.393	-29.314	1.00	56.86	A16S
ATOM	5528	C5	C	A	267	121.314	62.345	-28.367	1.00	56.86	A16S
ATOM	5529	C2*	C	A	267	124.653	59.982	-26.374	1.00	59.08	A16S
ATOM	5530	O2*	C	A	267	125.223	59.238	-25.317	1.00	59.08	A16S
ATOM	5531	C3*	C	A	267	125.629	61.020	-26.908	1.00	59.08	A16S
ATOM	5532	O3*	C	A	267	126.958	60.520	-26.895	1.00	59.08	A16S
ATOM	5533	P	C	A	268	127.622	59.975	-28.255	1.00	64.24	A16S
ATOM	5534	O1P	C	A	268	129.030	59.641	-27.906	1.00	55.32	A16S
ATOM	5535	O2P	C	A	268	127.352	60.915	-29.366	1.00	55.32	A16S
ATOM	5536	O5*	C	A	268	126.828	58.622	-28.553	1.00	64.24	A16S
ATOM	5537	C5*	C	A	268	127.099	57.417	-27.805	1.00	64.24	A16S

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ATOM	5538	C4*	C	A	268	126.228	56.290	-28.301	1.00	64.24	A16S
ATOM	5539	O4*	C	A	268	124.845	56.609	-28.024	1.00	64.24	A16S
ATOM	5540	C1*	C	A	268	124.028	56.131	-29.075	1.00	64.24	A16S
ATOM	5541	N1	C	A	268	123.306	57.262	-29.673	1.00	55.32	A16S
ATOM	5542	C6	C	A	268	123.708	58.551	-29.462	1.00	55.32	A16S
ATOM	5543	C2	C	A	268	122.187	56.993	-30.475	1.00	55.32	A16S
ATOM	5544	O2	C	A	268	121.847	55.817	-30.652	1.00	55.32	A16S
ATOM	5545	N3	C	A	268	121.511	58.019	-31.037	1.00	55.32	A16S
ATOM	5546	C4	C	A	268	121.916	59.275	-30.830	1.00	55.32	A16S
ATOM	5547	N4	C	A	268	121.230	60.259	-31.418	1.00	55.32	A16S
ATOM	5548	C5	C	A	268	123.049	59.578	-30.013	1.00	55.32	A16S
ATOM	5549	C2*	C	A	268	124.918	55.421	-30.092	1.00	64.24	A16S
ATOM	5550	O2*	C	A	268	124.853	54.028	-29.876	1.00	64.24	A16S
ATOM	5551	C3*	C	A	268	126.281	56.036	-29.800	1.00	64.24	A16S
ATOM	5552	O3*	C	A	268	127.341	55.149	-30.147	1.00	64.24	A16S
ATOM	5553	P	C	A	269	127.808	55.018	-31.686	1.00	78.45	A16S
ATOM	5554	O1P	C	A	269	128.921	54.021	-31.719	1.00	58.38	A16S
ATOM	5555	O2P	C	A	269	128.020	56.387	-32.254	1.00	58.38	A16S
ATOM	5556	O5*	C	A	269	126.563	54.349	-32.423	1.00	78.45	A16S
ATOM	5557	C5*	C	A	269	126.338	52.935	-32.329	1.00	78.45	A16S
ATOM	5558	C4*	C	A	269	125.231	52.518	-33.256	1.00	78.45	A16S
ATOM	5559	O4*	C	A	269	123.999	53.168	-32.857	1.00	78.45	A16S
ATOM	5560	C1*	C	A	269	123.196	53.393	-34.000	1.00	78.45	A16S
ATOM	5561	N1	C	A	269	122.871	54.827	-34.093	1.00	58.38	A16S
ATOM	5562	C6	C	A	269	123.690	55.777	-33.552	1.00	58.38	A16S
ATOM	5563	C2	C	A	269	121.690	55.208	-34.767	1.00	58.38	A16S
ATOM	5564	O2	C	A	269	120.947	54.330	-35.235	1.00	58.38	A16S
ATOM	5565	N3	C	A	269	121.390	56.519	-34.886	1.00	58.38	A16S
ATOM	5566	C4	C	A	269	122.200	57.436	-34.356	1.00	58.38	A16S
ATOM	5567	N4	C	A	269	121.856	58.720	-34.496	1.00	58.38	A16S
ATOM	5568	C5	C	A	269	123.397	57.078	-33.657	1.00	58.38	A16S
ATOM	5569	C2*	C	A	269	123.963	52.892	-35.225	1.00	78.45	A16S
ATOM	5570	O2*	C	A	269	123.527	51.596	-35.586	1.00	78.45	A16S
ATOM	5571	C3*	C	A	269	125.396	52.891	-34.719	1.00	78.45	A16S
ATOM	5572	O3*	C	A	269	126.172	51.946	-35.438	1.00	78.45	A16S
ATOM	5573	P	A	A	270	126.814	52.363	-36.853	1.00	73.13	A16S
ATOM	5574	O1P	A	A	270	127.755	51.279	-37.244	1.00	71.53	A16S
ATOM	5575	O2P	A	A	270	127.311	53.769	-36.738	1.00	71.53	A16S
ATOM	5576	O5*	A	A	270	125.591	52.346	-37.879	1.00	73.13	A16S
ATOM	5577	C5*	A	A	270	125.075	51.106	-38.387	1.00	73.13	A16S
ATOM	5578	C4*	A	A	270	123.894	51.356	-39.291	1.00	73.13	A16S
ATOM	5579	O4*	A	A	270	122.851	52.020	-38.539	1.00	73.13	A16S
ATOM	5580	C1*	A	A	270	122.164	52.933	-39.379	1.00	73.13	A16S
ATOM	5581	N9	A	A	270	122.269	54.271	-38.788	1.00	71.53	A16S
ATOM	5582	C4	A	A	270	121.505	55.373	-39.099	1.00	71.53	A16S
ATOM	5583	N3	A	A	270	120.519	55.455	-40.010	1.00	71.53	A16S
ATOM	5584	C2	A	A	270	119.984	56.673	-40.012	1.00	71.53	A16S
ATOM	5585	N1	A	A	270	120.307	57.744	-39.269	1.00	71.53	A16S
ATOM	5586	C6	A	A	270	121.317	57.630	-38.375	1.00	71.53	A16S
ATOM	5587	N6	A	A	270	121.664	58.699	-37.650	1.00	71.53	A16S
ATOM	5588	C5	A	A	270	121.952	56.386	-38.267	1.00	71.53	A16S
ATOM	5589	N7	A	A	270	122.982	55.938	-37.457	1.00	71.53	A16S
ATOM	5590	C8	A	A	270	123.135	54.685	-37.806	1.00	71.53	A16S
ATOM	5591	C2*	A	A	270	122.767	52.828	-40.782	1.00	73.13	A16S
ATOM	5592	O2*	A	A	270	121.992	51.962	-41.588	1.00	73.13	A16S
ATOM	5593	C3*	A	A	270	124.147	52.263	-40.480	1.00	73.13	A16S
ATOM	5594	O3*	A	A	270	124.668	51.554	-41.590	1.00	73.13	A16S
ATOM	5595	P	C	A	271	125.745	52.269	-42.537	1.00	73.52	A16S
ATOM	5596	O1P	C	A	271	126.341	51.219	-43.411	1.00	73.78	A16S
ATOM	5597	O2P	C	A	271	126.625	53.075	-41.650	1.00	73.78	A16S
ATOM	5598	O5*	C	A	271	124.881	53.264	-43.432	1.00	73.52	A16S
ATOM	5599	C5*	C	A	271	124.003	52.746	-44.432	1.00	73.52	A16S
ATOM	5600	C4*	C	A	271	123.040	53.806	-44.888	1.00	73.52	A16S
ATOM	5601	O4*	C	A	271	122.248	54.255	-43.761	1.00	73.52	A16S
ATOM	5602	C1*	C	A	271	121.927	55.628	-43.923	1.00	73.52	A16S
ATOM	5603	N1	C	A	271	122.484	56.381	-42.790	1.00	73.78	A16S
ATOM	5604	C6	C	A	271	123.530	55.885	-42.060	1.00	73.78	A16S
ATOM	5605	C2	C	A	271	121.939	57.639	-42.487	1.00	73.78	A16S
ATOM	5606	O2	C	A	271	120.953	58.045	-43.138	1.00	73.78	A16S
ATOM	5607	N3	C	A	271	122.496	58.371	-41.490	1.00	73.78	A16S
ATOM	5608	C4	C	A	271	123.532	57.882	-40.798	1.00	73.78	A16S
ATOM	5609	N4	C	A	271	124.056	58.639	-39.828	1.00	73.78	A16S
ATOM	5610	C5	C	A	271	124.078	56.595	-41.069	1.00	73.78	A16S
ATOM	5611	C2*	C	A	271	122.546	56.104	-45.239	1.00	73.52	A16S
ATOM	5612	O2*	C	A	271	121.571	56.111	-46.266	1.00	73.52	A16S
ATOM	5613	C3*	C	A	271	123.653	55.078	-45.445	1.00	73.52	A16S
ATOM	5614	O3*	C	A	271	124.008	54.951	-46.811	1.00	73.52	A16S

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ATOM	5615	P	C	A	272	125.220	55.828	-47.392	1.00	80.70	A16S
ATOM	5616	O1P	C	A	272	125.482	55.388	-48.796	1.00	76.27	A16S
ATOM	5617	O2P	C	A	272	126.313	55.761	-46.385	1.00	76.27	A16S
ATOM	5618	O5*	C	A	272	124.634	57.312	-47.416	1.00	80.70	A16S
ATOM	5619	C5*	C	A	272	123.469	57.612	-48.193	1.00	80.70	A16S
ATOM	5620	C4*	C	A	272	123.022	59.033	-47.963	1.00	80.70	A16S
ATOM	5621	O4*	C	A	272	122.571	59.204	-46.594	1.00	80.70	A16S
ATOM	5622	C1*	C	A	272	122.794	60.548	-46.188	1.00	80.70	A16S
ATOM	5623	N1	C	A	272	123.646	60.569	-44.981	1.00	76.27	A16S
ATOM	5624	C6	C	A	272	124.376	59.474	-44.606	1.00	76.27	A16S
ATOM	5625	C2	C	A	272	123.708	61.753	-44.223	1.00	76.27	A16S
ATOM	5626	O2	C	A	272	123.017	62.730	-44.569	1.00	76.27	A16S
ATOM	5627	N3	C	A	272	124.515	61.799	-43.134	1.00	76.27	A16S
ATOM	5628	C4	C	A	272	125.231	60.725	-42.787	1.00	76.27	A16S
ATOM	5629	N4	C	A	272	126.020	60.817	-41.712	1.00	76.27	A16S
ATOM	5630	C5	C	A	272	125.173	59.508	-43.528	1.00	76.27	A16S
ATOM	5631	C2*	C	A	272	123.451	61.285	-47.355	1.00	80.70	A16S
ATOM	5632	O2*	C	A	272	122.463	61.995	-48.078	1.00	80.70	A16S
ATOM	5633	C3*	C	A	272	124.057	60.130	-48.145	1.00	80.70	A16S
ATOM	5634	O3*	C	A	272	124.271	60.479	-49.505	1.00	80.70	A16S
ATOM	5635	P	A	A	273	125.719	61.018	-49.963	1.00	92.89	A16S
ATOM	5636	O1P	A	A	273	125.698	61.134	-51.446	1.00	66.78	A16S
ATOM	5637	O2P	A	A	273	126.760	60.173	-49.299	1.00	66.78	A16S
ATOM	5638	O5*	A	A	273	125.788	62.497	-49.369	1.00	92.89	A16S
ATOM	5639	C5*	A	A	273	124.869	63.504	-49.830	1.00	92.89	A16S
ATOM	5640	C4*	A	A	273	124.980	64.757	-48.995	1.00	92.89	A16S
ATOM	5641	O4*	A	A	273	124.630	64.472	-47.616	1.00	92.89	A16S
ATOM	5642	C1*	A	A	273	125.355	65.330	-46.757	1.00	92.89	A16S
ATOM	5643	N9	A	A	273	126.128	64.523	-45.812	1.00	66.78	A16S
ATOM	5644	C4	A	A	273	126.615	64.977	-44.608	1.00	66.78	A16S
ATOM	5645	N3	A	A	273	126.483	66.214	-44.089	1.00	66.78	A16S
ATOM	5646	C2	A	A	273	127.092	66.295	-42.905	1.00	66.78	A16S
ATOM	5647	N1	A	A	273	127.759	65.352	-42.228	1.00	66.78	A16S
ATOM	5648	C6	A	A	273	127.867	64.118	-42.768	1.00	66.78	A16S
ATOM	5649	N6	A	A	273	128.517	63.178	-42.075	1.00	66.78	A16S
ATOM	5650	C5	A	A	273	127.274	63.902	-44.036	1.00	66.78	A16S
ATOM	5651	N7	A	A	273	127.208	62.789	-44.866	1.00	66.78	A16S
ATOM	5652	C8	A	A	273	126.520	63.209	-45.903	1.00	66.78	A16S
ATOM	5653	C2*	A	A	273	126.232	66.227	-47.627	1.00	92.89	A16S
ATOM	5654	O2*	A	A	273	125.544	67.444	-47.826	1.00	92.89	A16S
ATOM	5655	C3*	A	A	273	126.348	65.405	-48.906	1.00	92.89	A16S
ATOM	5656	O3*	A	A	273	126.607	66.218	-50.043	1.00	92.89	A16S
ATOM	5657	P	A	A	274	128.106	66.314	-50.633	1.00	72.17	A16S
ATOM	5658	O1P	A	A	274	128.003	67.128	-51.881	1.00	67.09	A16S
ATOM	5659	O2P	A	A	274	128.686	64.941	-50.697	1.00	67.09	A16S
ATOM	5660	O5*	A	A	274	128.918	67.142	-49.526	1.00	72.17	A16S
ATOM	5661	C5*	A	A	274	128.385	68.376	-48.984	1.00	72.17	A16S
ATOM	5662	C4*	A	A	274	129.185	68.830	-47.781	1.00	72.17	A16S
ATOM	5663	O4*	A	A	274	129.088	67.844	-46.719	1.00	72.17	A16S
ATOM	5664	C1*	A	A	274	130.373	67.603	-46.209	1.00	72.17	A16S
ATOM	5665	N9	A	A	274	130.459	66.262	-45.645	1.00	67.09	A16S
ATOM	5666	C4	A	A	274	130.739	66.001	-44.331	1.00	67.09	A16S
ATOM	5667	N3	A	A	274	130.907	66.896	-43.350	1.00	67.09	A16S
ATOM	5668	C2	A	A	274	131.206	66.284	-42.210	1.00	67.09	A16S
ATOM	5669	N1	A	A	274	131.357	64.979	-41.961	1.00	67.09	A16S
ATOM	5670	C6	A	A	274	131.194	64.108	-42.974	1.00	67.09	A16S
ATOM	5671	N6	A	A	274	131.387	62.814	-42.734	1.00	67.09	A16S
ATOM	5672	C5	A	A	274	130.847	64.629	-44.231	1.00	67.09	A16S
ATOM	5673	N7	A	A	274	130.584	64.027	-45.453	1.00	67.09	A16S
ATOM	5674	C8	A	A	274	130.350	65.038	-46.255	1.00	67.09	A16S
ATOM	5675	C2*	A	A	274	131.315	67.845	-47.378	1.00	72.17	A16S
ATOM	5676	O2*	A	A	274	132.620	68.060	-46.880	1.00	72.17	A16S
ATOM	5677	C3*	A	A	274	130.677	69.077	-48.003	1.00	72.17	A16S
ATOM	5678	O3*	A	A	274	131.097	70.187	-47.215	1.00	72.17	A16S
ATOM	5679	P	G	A	275	130.839	71.687	-47.727	1.00	52.89	A16S
ATOM	5680	O1P	G	A	275	130.184	71.646	-49.065	1.00	59.78	A16S
ATOM	5681	O2P	G	A	275	132.105	72.456	-47.552	1.00	59.78	A16S
ATOM	5682	O5*	G	A	275	129.768	72.236	-46.683	1.00	52.89	A16S
ATOM	5683	C5*	G	A	275	130.191	72.757	-45.417	1.00	52.89	A16S
ATOM	5684	C4*	G	A	275	129.620	71.941	-44.284	1.00	52.89	A16S
ATOM	5685	O4*	G	A	275	130.134	70.583	-44.333	1.00	52.89	A16S
ATOM	5686	C1*	G	A	275	130.484	70.149	-43.025	1.00	52.89	A16S
ATOM	5687	N9	G	A	275	131.939	69.982	-42.994	1.00	59.78	A16S
ATOM	5688	C4	G	A	275	132.729	69.731	-41.889	1.00	59.78	A16S
ATOM	5689	N3	G	A	275	132.297	69.566	-40.620	1.00	59.78	A16S
ATOM	5690	C2	G	A	275	133.300	69.336	-39.783	1.00	59.78	A16S
ATOM	5691	N2	G	A	275	133.055	69.130	-38.485	1.00	59.78	A16S

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ATOM	5692	N1	G	A	275	134.618	69.287	-40.159	1.00	59.78	A16S
ATOM	5693	C6	G	A	275	135.088	69.460	-41.455	1.00	59.78	A16S
ATOM	5694	O6	G	A	275	136.306	69.401	-41.683	1.00	59.78	A16S
ATOM	5695	C5	G	A	275	134.025	69.695	-42.368	1.00	59.78	A16S
ATOM	5696	N7	G	A	275	134.051	69.904	-43.739	1.00	59.78	A16S
ATOM	5697	C8	G	A	275	132.798	70.065	-44.067	1.00	59.78	A16S
ATOM	5698	C2*	G	A	275	130.010	71.232	-42.049	1.00	52.89	A16S
ATOM	5699	O2*	G	A	275	128.702	70.972	-41.580	1.00	52.89	A16S
ATOM	5700	C3*	G	A	275	130.062	72.463	-42.933	1.00	52.89	A16S
ATOM	5701	O3*	G	A	275	129.246	73.530	-42.497	1.00	52.89	A16S
ATOM	5702	P	G	A	276	129.947	74.868	-41.968	1.00	58.11	A16S
ATOM	5703	O1P	G	A	276	128.967	75.991	-41.947	1.00	58.49	A16S
ATOM	5704	O2P	G	A	276	131.215	75.010	-42.730	1.00	58.49	A16S
ATOM	5705	O5*	G	A	276	130.323	74.497	-40.472	1.00	58.11	A16S
ATOM	5706	C5*	G	A	276	129.300	74.101	-39.554	1.00	58.11	A16S
ATOM	5707	C4*	G	A	276	129.917	73.704	-38.250	1.00	58.11	A16S
ATOM	5708	O4*	G	A	276	130.666	72.483	-38.445	1.00	58.11	A16S
ATOM	5709	C1*	G	A	276	131.858	72.532	-37.682	1.00	58.11	A16S
ATOM	5710	N9	G	A	276	132.989	72.489	-38.607	1.00	58.49	A16S
ATOM	5711	C4	G	A	276	134.319	72.394	-38.271	1.00	58.49	A16S
ATOM	5712	N3	G	A	276	134.812	72.314	-37.023	1.00	58.49	A16S
ATOM	5713	C2	G	A	276	136.136	72.255	-37.015	1.00	58.49	A16S
ATOM	5714	N2	G	A	276	136.794	72.183	-35.839	1.00	58.49	A16S
ATOM	5715	N1	G	A	276	136.913	72.265	-38.148	1.00	58.49	A16S
ATOM	5716	C6	G	A	276	136.426	72.342	-39.445	1.00	58.49	A16S
ATOM	5717	O6	G	A	276	137.217	72.342	-40.399	1.00	58.49	A16S
ATOM	5718	C5	G	A	276	135.003	72.413	-39.465	1.00	58.49	A16S
ATOM	5719	N7	G	A	276	134.122	72.504	-40.535	1.00	58.49	A16S
ATOM	5720	C8	G	A	276	132.941	72.547	-39.980	1.00	58.49	A16S
ATOM	5721	C2*	G	A	276	131.823	73.820	-36.855	1.00	58.11	A16S
ATOM	5722	O2*	G	A	276	131.261	73.572	-35.577	1.00	58.11	A16S
ATOM	5723	C3*	G	A	276	130.930	74.699	-37.712	1.00	58.11	A16S
ATOM	5724	O3*	G	A	276	130.327	75.763	-36.988	1.00	58.11	A16S
ATOM	5725	P	C	A	277	131.009	77.219	-37.016	1.00	49.01	A16S
ATOM	5726	O1P	C	A	277	130.205	78.111	-36.126	1.00	45.93	A16S
ATOM	5727	O2P	C	A	277	131.218	77.593	-38.462	1.00	45.93	A16S
ATOM	5728	O5*	C	A	277	132.404	76.968	-36.283	1.00	49.01	A16S
ATOM	5729	C5*	C	A	277	132.408	76.425	-34.948	1.00	49.01	A16S
ATOM	5730	C4*	C	A	277	133.804	76.368	-34.374	1.00	49.01	A16S
ATOM	5731	O4*	C	A	277	134.544	75.226	-34.870	1.00	49.01	A16S
ATOM	5732	C1*	C	A	277	135.929	75.525	-34.861	1.00	49.01	A16S
ATOM	5733	N1	C	A	277	136.423	75.497	-36.238	1.00	45.93	A16S
ATOM	5734	C6	C	A	277	135.562	75.577	-37.295	1.00	45.93	A16S
ATOM	5735	C2	C	A	277	137.803	75.417	-36.454	1.00	45.93	A16S
ATOM	5736	O2	C	A	277	138.566	75.308	-35.466	1.00	45.93	A16S
ATOM	5737	N3	C	A	277	138.272	75.459	-37.728	1.00	45.93	A16S
ATOM	5738	C4	C	A	277	137.415	75.570	-38.751	1.00	45.93	A16S
ATOM	5739	N4	C	A	277	137.913	75.648	-39.990	1.00	45.93	A16S
ATOM	5740	C5	C	A	277	136.009	75.617	-38.552	1.00	45.93	A16S
ATOM	5741	C2*	C	A	277	136.086	76.938	-34.314	1.00	49.01	A16S
ATOM	5742	O2*	C	A	277	136.325	76.864	-32.925	1.00	49.01	A16S
ATOM	5743	C3*	C	A	277	134.726	77.535	-34.629	1.00	49.01	A16S
ATOM	5744	O3*	C	A	277	134.452	78.628	-33.800	1.00	49.01	A16S
ATOM	5745	P	G	A	278	134.895	80.085	-34.281	1.00	50.97	A16S
ATOM	5746	O1P	G	A	278	134.508	81.051	-33.219	1.00	61.50	A16S
ATOM	5747	O2P	G	A	278	134.439	80.291	-35.680	1.00	61.50	A16S
ATOM	5748	O5*	G	A	278	136.478	79.989	-34.309	1.00	50.97	A16S
ATOM	5749	C5*	G	A	278	137.222	79.878	-33.088	1.00	50.97	A16S
ATOM	5750	C4*	G	A	278	138.698	80.001	-33.367	1.00	50.97	A16S
ATOM	5751	O4*	G	A	278	139.118	78.905	-34.218	1.00	50.97	A16S
ATOM	5752	C1*	G	A	278	140.131	79.350	-35.098	1.00	50.97	A16S
ATOM	5753	N9	G	A	278	139.680	79.165	-36.471	1.00	61.50	A16S
ATOM	5754	C4	G	A	278	140.491	79.066	-37.571	1.00	61.50	A16S
ATOM	5755	N3	G	A	278	141.840	79.115	-37.563	1.00	61.50	A16S
ATOM	5756	C2	G	A	278	142.348	78.981	-38.775	1.00	61.50	A16S
ATOM	5757	N2	G	A	278	143.685	78.992	-38.937	1.00	61.50	A16S
ATOM	5758	N1	G	A	278	141.585	78.820	-39.914	1.00	61.50	A16S
ATOM	5759	C6	G	A	278	140.195	78.766	-39.943	1.00	61.50	A16S
ATOM	5760	O6	G	A	278	139.605	78.612	-41.020	1.00	61.50	A16S
ATOM	5761	C5	G	A	278	139.641	78.903	-38.641	1.00	61.50	A16S
ATOM	5762	N7	G	A	278	138.319	78.899	-38.220	1.00	61.50	A16S
ATOM	5763	C8	G	A	278	138.391	79.059	-36.926	1.00	61.50	A16S
ATOM	5764	C2*	G	A	278	140.420	80.812	-34.778	1.00	50.97	A16S
ATOM	5765	O2*	G	A	278	141.520	80.841	-33.893	1.00	50.97	A16S
ATOM	5766	C3*	G	A	278	139.113	81.245	-34.129	1.00	50.97	A16S
ATOM	5767	O3*	G	A	278	139.268	82.357	-33.265	1.00	50.97	A16S
ATOM	5768	P	A	A	279	139.187	83.843	-33.866	1.00	44.02	A16S

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ATOM	5769	O1P	A	A	279	138.308	84.611	-32.963	1.00	49.65	A16S
ATOM	5770	O2P	A	A	279	138.838	83.742	-35.295	1.00	49.65	A16S
ATOM	5771	O5*	A	A	279	140.693	84.380	-33.750	1.00	44.02	A16S
ATOM	5772	C5*	A	A	279	141.130	85.211	-32.633	1.00	44.02	A16S
ATOM	5773	C4*	A	A	279	142.374	86.003	-33.015	1.00	44.02	A16S
ATOM	5774	O4*	A	A	279	143.493	85.089	-33.118	1.00	44.02	A16S
ATOM	5775	C1*	A	A	279	144.300	85.447	-34.223	1.00	44.02	A16S
ATOM	5776	N9	A	A	279	144.451	84.270	-35.071	1.00	49.65	A16S
ATOM	5777	C4	A	A	279	145.642	83.690	-35.385	1.00	49.65	A16S
ATOM	5778	N3	A	A	279	146.851	84.121	-35.028	1.00	49.65	A16S
ATOM	5779	C2	A	A	279	147.778	83.271	-35.460	1.00	49.65	A16S
ATOM	5780	N1	A	A	279	147.629	82.123	-36.155	1.00	49.65	A16S
ATOM	5781	C6	A	A	279	146.386	81.734	-36.497	1.00	49.65	A16S
ATOM	5782	N6	A	A	279	146.232	80.600	-37.173	1.00	49.65	A16S
ATOM	5783	C5	A	A	279	145.331	82.545	-36.110	1.00	49.65	A16S
ATOM	5784	N7	A	A	279	143.966	82.429	-36.293	1.00	49.65	A16S
ATOM	5785	C8	A	A	279	143.485	83.483	-35.669	1.00	49.65	A16S
ATOM	5786	C2*	A	A	279	143.696	86.673	-34.908	1.00	44.02	A16S
ATOM	5787	O2*	A	A	279	144.436	87.813	-34.549	1.00	44.02	A16S
ATOM	5788	C3*	A	A	279	142.264	86.696	-34.373	1.00	44.02	A16S
ATOM	5789	O3*	A	A	279	141.748	88.066	-34.375	1.00	44.02	A16S
ATOM	5790	P	C	A	280	141.814	89.012	-33.050	1.00	45.39	A16S
ATOM	5791	O1P	C	A	280	141.445	90.374	-33.504	1.00	75.48	A16S
ATOM	5792	O2P	C	A	280	143.091	88.808	-32.321	1.00	75.48	A16S
ATOM	5793	O5*	C	A	280	140.636	88.525	-32.098	1.00	45.39	A16S
ATOM	5794	C5*	C	A	280	140.695	88.778	-30.674	1.00	45.39	A16S
ATOM	5795	C4*	C	A	280	139.428	88.303	-30.005	1.00	45.39	A16S
ATOM	5796	O4*	C	A	280	138.322	89.163	-30.391	1.00	45.39	A16S
ATOM	5797	C1*	C	A	280	137.302	88.390	-30.980	1.00	45.39	A16S
ATOM	5798	N1	C	A	280	136.716	89.147	-32.093	1.00	75.48	A16S
ATOM	5799	C6	C	A	280	137.471	90.006	-32.841	1.00	75.48	A16S
ATOM	5800	C2	C	A	280	135.364	88.958	-32.388	1.00	75.48	A16S
ATOM	5801	O2	C	A	280	134.698	88.187	-31.679	1.00	75.48	A16S
ATOM	5802	N3	C	A	280	134.815	89.616	-33.434	1.00	75.48	A16S
ATOM	5803	C4	C	A	280	135.564	90.440	-34.168	1.00	75.48	A16S
ATOM	5804	N4	C	A	280	134.984	91.058	-35.201	1.00	75.48	A16S
ATOM	5805	C5	C	A	280	136.942	90.666	-33.878	1.00	75.48	A16S
ATOM	5806	C2*	C	A	280	137.962	87.096	-31.444	1.00	45.39	A16S
ATOM	5807	O2*	C	A	280	136.999	86.070	-31.499	1.00	45.39	A16S
ATOM	5808	C3*	C	A	280	139.019	86.882	-30.368	1.00	45.39	A16S
ATOM	5809	O3*	C	A	280	138.430	86.272	-29.227	1.00	45.39	A16S
ATOM	5810	P	G	A	281	139.369	85.588	-28.118	1.00	53.62	A16S
ATOM	5811	O1P	G	A	281	138.508	84.767	-27.212	1.00	51.89	A16S
ATOM	5812	O2P	G	A	281	140.225	86.677	-27.544	1.00	51.89	A16S
ATOM	5813	O5*	G	A	281	140.295	84.607	-28.964	1.00	53.62	A16S
ATOM	5814	C5*	G	A	281	139.794	83.360	-29.470	1.00	53.62	A16S
ATOM	5815	C4*	G	A	281	140.933	82.399	-29.628	1.00	53.62	A16S
ATOM	5816	O4*	G	A	281	141.855	83.031	-30.536	1.00	53.62	A16S
ATOM	5817	C1*	G	A	281	143.170	82.846	-30.084	1.00	53.62	A16S
ATOM	5818	N9	G	A	281	143.804	84.150	-29.989	1.00	51.89	A16S
ATOM	5819	C4	G	A	281	145.047	84.488	-30.469	1.00	51.89	A16S
ATOM	5820	N3	G	A	281	145.908	83.659	-31.098	1.00	51.89	A16S
ATOM	5821	C2	G	A	281	147.036	84.271	-31.420	1.00	51.89	A16S
ATOM	5822	N2	G	A	281	148.013	83.595	-32.045	1.00	51.89	A16S
ATOM	5823	N1	G	A	281	147.292	85.592	-31.151	1.00	51.89	A16S
ATOM	5824	C6	G	A	281	146.413	86.466	-30.519	1.00	51.89	A16S
ATOM	5825	O6	G	A	281	146.740	87.646	-30.336	1.00	51.89	A16S
ATOM	5826	C5	G	A	281	145.206	85.821	-30.164	1.00	51.89	A16S
ATOM	5827	N7	G	A	281	144.085	86.314	-29.517	1.00	51.89	A16S
ATOM	5828	C8	G	A	281	143.283	85.286	-29.429	1.00	51.89	A16S
ATOM	5829	C2*	G	A	281	143.150	81.975	-28.826	1.00	53.62	A16S
ATOM	5830	O2*	G	A	281	143.406	80.672	-29.271	1.00	53.62	A16S
ATOM	5831	C3*	G	A	281	141.717	82.145	-28.342	1.00	53.62	A16S
ATOM	5832	O3*	G	A	281	141.050	81.094	-27.566	1.00	53.62	A16S
ATOM	5833	P	A	A	282	141.737	79.643	-27.255	1.00	45.13	A16S
ATOM	5834	O1P	A	A	282	141.062	79.140	-26.022	1.00	53.85	A16S
ATOM	5835	O2P	A	A	282	143.221	79.663	-27.277	1.00	53.85	A16S
ATOM	5836	O5*	A	A	282	141.205	78.715	-28.445	1.00	45.13	A16S
ATOM	5837	C5*	A	A	282	139.785	78.466	-28.597	1.00	45.13	A16S
ATOM	5838	C4*	A	A	282	139.500	77.686	-29.862	1.00	45.13	A16S
ATOM	5839	O4*	A	A	282	140.076	78.396	-30.991	1.00	45.13	A16S
ATOM	5840	C1*	A	A	282	140.682	77.475	-31.881	1.00	45.13	A16S
ATOM	5841	N9	A	A	282	142.136	77.664	-31.781	1.00	53.85	A16S
ATOM	5842	C4	A	A	282	143.123	76.866	-32.309	1.00	53.85	A16S
ATOM	5843	N3	A	A	282	142.967	75.784	-33.080	1.00	53.85	A16S
ATOM	5844	C2	A	A	282	144.144	75.238	-33.358	1.00	53.85	A16S
ATOM	5845	N1	A	A	282	145.369	75.624	-32.982	1.00	53.85	A16S

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ATOM	5846	C6	A	A 282	145.489	76.723	-32.213	1.00	53.85	A16S
ATOM	5847	N6	A	A 282	146.707	77.114	-31.844	1.00	53.85	A16S
ATOM	5848	C5	A	A 282	144.319	77.392	-31.850	1.00	53.85	A16S
ATOM	5849	N7	A	A 282	144.098	78.527	-31.091	1.00	53.85	A16S
ATOM	5850	C8	A	A 282	142.794	78.654	-31.089	1.00	53.85	A16S
ATOM	5851	C2*	A	A 282	140.252	76.074	-31.427	1.00	45.13	A16S
ATOM	5852	O2*	A	A 282	139.049	75.734	-32.085	1.00	45.13	A16S
ATOM	5853	C3*	A	A 282	140.072	76.277	-29.925	1.00	45.13	A16S
ATOM	5854	O3*	A	A 282	139.172	75.318	-29.348	1.00	45.13	A16S
ATOM	5855	P	C	A 283	139.664	74.352	-28.133	1.00	54.90	A16S
ATOM	5856	O1P	C	A 283	138.560	73.375	-27.890	1.00	42.80	A16S
ATOM	5857	O2P	C	A 283	140.153	75.197	-26.995	1.00	42.80	A16S
ATOM	5858	O5*	C	A 283	140.905	73.532	-28.725	1.00	54.90	A16S
ATOM	5859	C5*	C	A 283	140.735	72.556	-29.790	1.00	54.90	A16S
ATOM	5860	C4*	C	A 283	142.084	72.071	-30.295	1.00	54.90	A16S
ATOM	5861	O4*	C	A 283	142.758	73.136	-31.015	1.00	54.90	A16S
ATOM	5862	C1*	C	A 283	144.146	73.122	-30.718	1.00	54.90	A16S
ATOM	5863	N1	C	A 283	144.450	74.348	-29.946	1.00	42.80	A16S
ATOM	5864	C6	C	A 283	143.445	75.212	-29.597	1.00	42.80	A16S
ATOM	5865	C2	C	A 283	145.770	74.611	-29.545	1.00	42.80	A16S
ATOM	5866	O2	C	A 283	146.679	73.846	-29.906	1.00	42.80	A16S
ATOM	5867	N3	C	A 283	146.019	75.703	-28.773	1.00	42.80	A16S
ATOM	5868	C4	C	A 283	145.018	76.522	-28.421	1.00	42.80	A16S
ATOM	5869	N4	C	A 283	145.300	77.573	-27.651	1.00	42.80	A16S
ATOM	5870	C5	C	A 283	143.683	76.297	-28.842	1.00	42.80	A16S
ATOM	5871	C2*	C	A 283	144.409	71.858	-29.900	1.00	54.90	A16S
ATOM	5872	O2*	C	A 283	144.701	70.764	-30.740	1.00	54.90	A16S
ATOM	5873	C3*	C	A 283	143.071	71.662	-29.220	1.00	54.90	A16S
ATOM	5874	O3*	C	A 283	142.897	70.335	-28.781	1.00	54.90	A16S
ATOM	5875	P	G	A 284	143.133	69.996	-27.228	1.00	43.17	A16S
ATOM	5876	O1P	G	A 284	142.982	68.512	-27.101	1.00	46.38	A16S
ATOM	5877	O2P	G	A 284	142.260	70.905	-26.419	1.00	46.38	A16S
ATOM	5878	O5*	G	A 284	144.668	70.371	-26.983	1.00	43.17	A16S
ATOM	5879	C5*	G	A 284	145.698	69.670	-27.705	1.00	43.17	A16S
ATOM	5880	C4*	G	A 284	147.071	70.231	-27.403	1.00	43.17	A16S
ATOM	5881	O4*	G	A 284	147.215	71.566	-27.954	1.00	43.17	A16S
ATOM	5882	C1*	G	A 284	148.106	72.315	-27.144	1.00	43.17	A16S
ATOM	5883	N9	G	A 284	147.385	73.454	-26.573	1.00	46.38	A16S
ATOM	5884	C4	G	A 284	147.949	74.518	-25.905	1.00	46.38	A16S
ATOM	5885	N3	G	A 284	149.266	74.729	-25.721	1.00	46.38	A16S
ATOM	5886	C2	G	A 284	149.500	75.825	-25.024	1.00	46.38	A16S
ATOM	5887	N2	G	A 284	150.759	76.199	-24.785	1.00	46.38	A16S
ATOM	5888	N1	G	A 284	148.521	76.637	-24.519	1.00	46.38	A16S
ATOM	5889	C6	G	A 284	147.156	76.433	-24.682	1.00	46.38	A16S
ATOM	5890	O6	G	A 284	146.351	77.210	-24.159	1.00	46.38	A16S
ATOM	5891	C5	G	A 284	146.889	75.275	-25.462	1.00	46.38	A16S
ATOM	5892	N7	G	A 284	145.683	74.731	-25.883	1.00	46.38	A16S
ATOM	5893	C8	G	A 284	146.026	73.658	-26.543	1.00	46.38	A16S
ATOM	5894	C2*	G	A 284	148.611	71.385	-26.038	1.00	43.17	A16S
ATOM	5895	O2*	G	A 284	149.807	70.771	-26.456	1.00	43.17	A16S
ATOM	5896	C3*	G	A 284	147.484	70.369	-25.946	1.00	43.17	A16S
ATOM	5897	O3*	G	A 284	147.950	69.143	-25.397	1.00	43.17	A16S
ATOM	5898	P	G	A 285	147.843	68.888	-23.808	1.00	50.61	A16S
ATOM	5899	O1P	G	A 285	148.294	67.481	-23.590	1.00	46.87	A16S
ATOM	5900	O2P	G	A 285	146.489	69.288	-23.362	1.00	46.87	A16S
ATOM	5901	O5*	G	A 285	148.919	69.896	-23.186	1.00	50.61	A16S
ATOM	5902	C5*	G	A 285	150.318	69.765	-23.523	1.00	50.61	A16S
ATOM	5903	C4*	G	A 285	151.161	70.813	-22.814	1.00	50.61	A16S
ATOM	5904	O4*	G	A 285	150.975	72.131	-23.399	1.00	50.61	A16S
ATOM	5905	C1*	G	A 285	151.113	73.125	-22.392	1.00	50.61	A16S
ATOM	5906	N9	G	A 285	149.839	73.818	-22.242	1.00	46.87	A16S
ATOM	5907	C4	G	A 285	149.638	75.007	-21.595	1.00	46.87	A16S
ATOM	5908	N3	G	A 285	150.593	75.775	-21.051	1.00	46.87	A16S
ATOM	5909	C2	G	A 285	150.088	76.855	-20.478	1.00	46.87	A16S
ATOM	5910	N2	G	A 285	150.911	77.759	-19.918	1.00	46.87	A16S
ATOM	5911	N1	G	A 285	148.751	77.137	-20.420	1.00	46.87	A16S
ATOM	5912	C6	G	A 285	147.749	76.351	-20.969	1.00	46.87	A16S
ATOM	5913	O6	G	A 285	146.565	76.688	-20.850	1.00	46.87	A16S
ATOM	5914	C5	G	A 285	148.279	75.209	-21.612	1.00	46.87	A16S
ATOM	5915	N7	G	A 285	147.638	74.189	-22.296	1.00	46.87	A16S
ATOM	5916	C8	G	A 285	148.602	73.392	-22.661	1.00	46.87	A16S
ATOM	5917	C2*	G	A 285	151.447	72.413	-21.083	1.00	50.61	A16S
ATOM	5918	O2*	G	A 285	152.835	72.419	-20.884	1.00	50.61	A16S
ATOM	5919	C3*	G	A 285	150.900	71.014	-21.334	1.00	50.61	A16S
ATOM	5920	O3*	G	A 285	151.535	70.039	-20.523	1.00	50.61	A16S
ATOM	5921	P	G	A 286	150.876	69.651	-19.107	1.00	42.46	A16S
ATOM	5922	O1P	G	A 286	151.722	68.605	-18.462	1.00	42.14	A16S

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ATOM	5923	O2P	G	A	286	149.430	69.374	-19.367	1.00	42.14	A16S
ATOM	5924	O5*	G	A	286	151.042	70.986	-18.253	1.00	42.46	A16S
ATOM	5925	C5*	G	A	286	152.343	71.522	-18.053	1.00	42.46	A16S
ATOM	5926	C4*	G	A	286	152.277	72.843	-17.345	1.00	42.46	A16S
ATOM	5927	O4*	G	A	286	151.642	73.850	-18.171	1.00	42.46	A16S
ATOM	5928	C1*	G	A	286	151.059	74.841	-17.340	1.00	42.46	A16S
ATOM	5929	N9	G	A	286	149.639	74.955	-17.663	1.00	42.14	A16S
ATOM	5930	C4	G	A	286	148.764	75.902	-17.181	1.00	42.14	A16S
ATOM	5931	N3	G	A	286	149.073	76.917	-16.350	1.00	42.14	A16S
ATOM	5932	C2	G	A	286	148.011	77.653	-16.049	1.00	42.14	A16S
ATOM	5933	N2	G	A	286	148.147	78.717	-15.239	1.00	42.14	A16S
ATOM	5934	N1	G	A	286	146.747	77.404	-16.522	1.00	42.14	A16S
ATOM	5935	C6	G	A	286	146.407	76.366	-17.378	1.00	42.14	A16S
ATOM	5936	O6	G	A	286	145.239	76.231	-17.745	1.00	42.14	A16S
ATOM	5937	C5	G	A	286	147.536	75.573	-17.714	1.00	42.14	A16S
ATOM	5938	N7	G	A	286	147.638	74.457	-18.532	1.00	42.14	A16S
ATOM	5939	C8	G	A	286	148.902	74.131	-18.477	1.00	42.14	A16S
ATOM	5940	C2*	G	A	286	151.290	74.400	-15.894	1.00	42.46	A16S
ATOM	5941	O2*	G	A	286	152.476	74.990	-15.404	1.00	42.46	A16S
ATOM	5942	C3*	G	A	286	151.498	72.905	-16.053	1.00	42.46	A16S
ATOM	5943	O3*	G	A	286	152.226	72.369	-14.965	1.00	42.46	A16S
ATOM	5944	P	U	A	287	151.432	71.576	-13.815	1.00	54.09	A16S
ATOM	5945	O1P	U	A	287	152.432	71.045	-12.845	1.00	51.01	A16S
ATOM	5946	O2P	U	A	287	150.465	70.642	-14.468	1.00	51.01	A16S
ATOM	5947	O5*	U	A	287	150.613	72.732	-13.095	1.00	54.09	A16S
ATOM	5948	C5*	U	A	287	151.313	73.757	-12.385	1.00	54.09	A16S
ATOM	5949	C4*	U	A	287	150.364	74.825	-11.921	1.00	54.09	A16S
ATOM	5950	O4*	U	A	287	149.842	75.552	-13.060	1.00	54.09	A16S
ATOM	5951	C1*	U	A	287	148.530	75.998	-12.775	1.00	54.09	A16S
ATOM	5952	N1	U	A	287	147.599	75.335	-13.691	1.00	51.01	A16S
ATOM	5953	C6	U	A	287	147.984	74.274	-14.450	1.00	51.01	A16S
ATOM	5954	C2	U	A	287	146.310	75.810	-13.736	1.00	51.01	A16S
ATOM	5955	O2	U	A	287	145.935	76.770	-13.089	1.00	51.01	A16S
ATOM	5956	N3	U	A	287	145.470	75.123	-14.558	1.00	51.01	A16S
ATOM	5957	C4	U	A	287	145.783	74.036	-15.323	1.00	51.01	A16S
ATOM	5958	O4	U	A	287	144.887	73.454	-15.932	1.00	51.01	A16S
ATOM	5959	C5	U	A	287	147.146	73.625	-15.244	1.00	51.01	A16S
ATOM	5960	C2*	U	A	287	148.208	75.568	-11.350	1.00	54.09	A16S
ATOM	5961	O2*	U	A	287	148.544	76.611	-10.454	1.00	54.09	A16S
ATOM	5962	C3*	U	A	287	149.121	74.368	-11.188	1.00	54.09	A16S
ATOM	5963	O3*	U	A	287	149.339	74.075	-9.827	1.00	54.09	A16S
ATOM	5964	P	A	A	288	148.295	73.125	-9.066	1.00	53.91	A16S
ATOM	5965	O1P	A	A	288	148.720	73.060	-7.644	1.00	47.95	A16S
ATOM	5966	O2P	A	A	288	148.090	71.867	-9.838	1.00	47.95	A16S
ATOM	5967	O5*	A	A	288	146.943	73.948	-9.143	1.00	53.91	A16S
ATOM	5968	C5*	A	A	288	146.865	75.250	-8.546	1.00	53.91	A16S
ATOM	5969	C4*	A	A	288	145.450	75.756	-8.578	1.00	53.91	A16S
ATOM	5970	O4*	A	A	288	145.072	76.118	-9.930	1.00	53.91	A16S
ATOM	5971	C1*	A	A	288	143.708	75.825	-10.133	1.00	53.91	A16S
ATOM	5972	N9	A	A	288	143.620	74.827	-11.187	1.00	47.95	A16S
ATOM	5973	C4	A	A	288	142.544	74.603	-11.997	1.00	47.95	A16S
ATOM	5974	N3	A	A	288	141.395	75.289	-12.018	1.00	47.95	A16S
ATOM	5975	C2	A	A	288	140.556	74.753	-12.900	1.00	47.95	A16S
ATOM	5976	N1	A	A	288	140.725	73.682	-13.698	1.00	47.95	A16S
ATOM	5977	C6	A	A	288	141.901	73.022	-13.650	1.00	47.95	A16S
ATOM	5978	N6	A	A	288	142.074	71.955	-14.436	1.00	47.95	A16S
ATOM	5979	C5	A	A	288	142.874	73.499	-12.768	1.00	47.95	A16S
ATOM	5980	N7	A	A	288	144.156	73.069	-12.485	1.00	47.95	A16S
ATOM	5981	C8	A	A	288	144.560	73.894	-11.548	1.00	47.95	A16S
ATOM	5982	C2*	A	A	288	143.147	75.307	-8.807	1.00	53.91	A16S
ATOM	5983	O2*	A	A	288	142.640	76.412	-8.092	1.00	53.91	A16S
ATOM	5984	C3*	A	A	288	144.397	74.762	-8.132	1.00	53.91	A16S
ATOM	5985	O3*	A	A	288	144.323	74.720	-6.710	1.00	53.91	A16S
ATOM	5986	P	G	A	289	143.408	73.611	-6.000	1.00	48.76	A16S
ATOM	5987	O1P	G	A	289	143.834	73.517	-4.589	1.00	48.14	A16S
ATOM	5988	O2P	G	A	289	143.370	72.377	-6.834	1.00	48.14	A16S
ATOM	5989	O5*	G	A	289	141.972	74.299	-6.055	1.00	48.76	A16S
ATOM	5990	C5*	G	A	289	140.770	73.528	-5.947	1.00	48.76	A16S
ATOM	5991	C4*	G	A	289	139.849	73.813	-7.115	1.00	48.76	A16S
ATOM	5992	O4*	G	A	289	138.866	72.749	-7.144	1.00	48.76	A16S
ATOM	5993	C1*	G	A	289	137.579	73.292	-7.354	1.00	48.76	A16S
ATOM	5994	N9	G	A	289	136.882	73.282	-6.068	1.00	48.14	A16S
ATOM	5995	C4	G	A	289	135.559	73.548	-5.866	1.00	48.14	A16S
ATOM	5996	N3	G	A	289	134.677	73.901	-6.817	1.00	48.14	A16S
ATOM	5997	C2	G	A	289	133.470	74.090	-6.324	1.00	48.14	A16S
ATOM	5998	N2	G	A	289	132.470	74.468	-7.148	1.00	48.14	A16S
ATOM	5999	N1	G	A	289	133.156	73.922	-4.994	1.00	48.14	A16S

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ATOM	6000	C6	G	A	289	134.055	73.539	-4.002	1.00	48.14	A16S
ATOM	6001	O6	G	A	289	133.666	73.377	-2.841	1.00	48.14	A16S
ATOM	6002	C5	G	A	289	135.349	73.367	-4.517	1.00	48.14	A16S
ATOM	6003	N7	G	A	289	136.527	73.028	-3.874	1.00	48.14	A16S
ATOM	6004	C8	G	A	289	137.412	72.992	-4.830	1.00	48.14	A16S
ATOM	6005	C2*	G	A	289	137.793	74.710	-7.873	1.00	48.76	A16S
ATOM	6006	O2*	G	A	289	138.001	74.668	-9.273	1.00	48.76	A16S
ATOM	6007	C3*	G	A	289	139.038	75.109	-7.099	1.00	48.76	A16S
ATOM	6008	O3*	G	A	289	139.674	76.212	-7.725	1.00	48.76	A16S
ATOM	6009	P	C	A	290	139.331	77.718	-7.240	1.00	41.97	A16S
ATOM	6010	O1P	C	A	290	140.124	78.614	-8.107	1.00	47.74	A16S
ATOM	6011	O2P	C	A	290	139.471	77.819	-5.754	1.00	47.74	A16S
ATOM	6012	O5*	C	A	290	137.802	77.957	-7.636	1.00	41.97	A16S
ATOM	6013	C5*	C	A	290	137.444	78.296	-8.990	1.00	41.97	A16S
ATOM	6014	C4*	C	A	290	135.999	78.753	-9.083	1.00	41.97	A16S
ATOM	6015	O4*	C	A	290	135.103	77.638	-8.831	1.00	41.97	A16S
ATOM	6016	C1*	C	A	290	133.934	78.104	-8.171	1.00	41.97	A16S
ATOM	6017	N1	C	A	290	133.955	77.620	-6.779	1.00	47.74	A16S
ATOM	6018	C6	C	A	290	135.138	77.323	-6.159	1.00	47.74	A16S
ATOM	6019	C2	C	A	290	132.753	77.518	-6.081	1.00	47.74	A16S
ATOM	6020	O2	C	A	290	131.688	77.733	-6.680	1.00	47.74	A16S
ATOM	6021	N3	C	A	290	132.780	77.188	-4.773	1.00	47.74	A16S
ATOM	6022	C4	C	A	290	133.947	76.955	-4.171	1.00	47.74	A16S
ATOM	6023	N4	C	A	290	133.937	76.691	-2.872	1.00	47.74	A16S
ATOM	6024	C5	C	A	290	135.177	76.997	-4.871	1.00	47.74	A16S
ATOM	6025	C2*	C	A	290	134.019	79.630	-8.138	1.00	41.97	A16S
ATOM	6026	O2*	C	A	290	133.395	80.154	-9.296	1.00	41.97	A16S
ATOM	6027	C3*	C	A	290	135.526	79.845	-8.132	1.00	41.97	A16S
ATOM	6028	O3*	C	A	290	135.861	81.150	-8.557	1.00	41.97	A16S
ATOM	6029	P	C	A	291	136.048	82.308	-7.461	1.00	45.99	A16S
ATOM	6030	O1P	C	A	291	136.473	83.531	-8.182	1.00	47.98	A16S
ATOM	6031	O2P	C	A	291	136.877	81.802	-6.342	1.00	47.98	A16S
ATOM	6032	O5*	C	A	291	134.579	82.538	-6.899	1.00	45.99	A16S
ATOM	6033	C5*	C	A	291	133.538	83.028	-7.759	1.00	45.99	A16S
ATOM	6034	C4*	C	A	291	132.227	83.073	-7.020	1.00	45.99	A16S
ATOM	6035	O4*	C	A	291	131.904	81.734	-6.550	1.00	45.99	A16S
ATOM	6036	C1*	C	A	291	131.183	81.820	-5.334	1.00	45.99	A16S
ATOM	6037	N1	C	A	291	131.946	81.158	-4.263	1.00	47.98	A16S
ATOM	6038	C6	C	A	291	133.275	80.884	-4.399	1.00	47.98	A16S
ATOM	6039	C2	C	A	291	131.290	80.867	-3.064	1.00	47.98	A16S
ATOM	6040	O2	C	A	291	130.065	81.039	-2.993	1.00	47.98	A16S
ATOM	6041	N3	C	A	291	131.997	80.405	-2.018	1.00	47.98	A16S
ATOM	6042	C4	C	A	291	133.303	80.210	-2.136	1.00	47.98	A16S
ATOM	6043	N4	C	A	291	133.971	79.828	-1.050	1.00	47.98	A16S
ATOM	6044	C5	C	A	291	133.986	80.417	-3.369	1.00	47.98	A16S
ATOM	6045	C2*	C	A	291	131.023	83.306	-4.995	1.00	45.99	A16S
ATOM	6046	O2*	C	A	291	129.757	83.787	-5.414	1.00	45.99	A16S
ATOM	6047	C3*	C	A	291	132.186	83.923	-5.759	1.00	45.99	A16S
ATOM	6048	O3*	C	A	291	131.997	85.318	-5.987	1.00	45.99	A16S
ATOM	6049	P	G	A	292	132.331	86.356	-4.802	1.00	50.11	A16S
ATOM	6050	O1P	G	A	292	132.108	87.742	-5.281	1.00	45.40	A16S
ATOM	6051	O2P	G	A	292	133.651	85.992	-4.240	1.00	45.40	A16S
ATOM	6052	O5*	G	A	292	131.242	86.010	-3.688	1.00	50.11	A16S
ATOM	6053	C5*	G	A	292	129.834	86.206	-3.940	1.00	50.11	A16S
ATOM	6054	C4*	G	A	292	129.033	86.042	-2.665	1.00	50.11	A16S
ATOM	6055	O4*	G	A	292	129.129	84.669	-2.208	1.00	50.11	A16S
ATOM	6056	C1*	G	A	292	129.148	84.637	-0.788	1.00	50.11	A16S
ATOM	6057	N9	G	A	292	130.443	84.119	-0.368	1.00	45.40	A16S
ATOM	6058	C4	G	A	292	130.756	83.524	0.832	1.00	45.40	A16S
ATOM	6059	N3	G	A	292	129.896	83.243	1.832	1.00	45.40	A16S
ATOM	6060	C2	G	A	292	130.515	82.730	2.884	1.00	45.40	A16S
ATOM	6061	N2	G	A	292	129.815	82.415	3.982	1.00	45.40	A16S
ATOM	6062	N1	G	A	292	131.867	82.502	2.941	1.00	45.40	A16S
ATOM	6063	C6	G	A	292	132.774	82.798	1.924	1.00	45.40	A16S
ATOM	6064	O6	G	A	292	133.993	82.602	2.088	1.00	45.40	A16S
ATOM	6065	C5	G	A	292	132.123	83.336	0.796	1.00	45.40	A16S
ATOM	6066	N7	G	A	292	132.645	83.752	-0.417	1.00	45.40	A16S
ATOM	6067	C8	G	A	292	131.614	84.194	-1.079	1.00	45.40	A16S
ATOM	6068	C2*	G	A	292	128.977	86.076	-0.287	1.00	50.11	A16S
ATOM	6069	O2*	G	A	292	127.619	86.311	0.022	1.00	50.11	A16S
ATOM	6070	C3*	G	A	292	129.479	86.888	-1.478	1.00	50.11	A16S
ATOM	6071	O3*	G	A	292	128.924	88.211	-1.520	1.00	50.11	A16S
ATOM	6072	P	G	A	293	129.785	89.469	-0.973	1.00	39.59	A16S
ATOM	6073	O1P	G	A	293	128.914	90.683	-1.055	1.00	63.90	A16S
ATOM	6074	O2P	G	A	293	131.119	89.482	-1.636	1.00	63.90	A16S
ATOM	6075	O5*	G	A	293	129.993	89.141	0.571	1.00	39.59	A16S
ATOM	6076	C5*	G	A	293	131.152	89.590	1.261	1.00	39.59	A16S

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ATOM	6077	C4*	G	A	293	131.835	88.423	1.915	1.00	39.59	A16S
ATOM	6078	O4*	G	A	293	132.087	87.389	0.930	1.00	39.59	A16S
ATOM	6079	C1*	G	A	293	133.370	86.823	1.148	1.00	39.59	A16S
ATOM	6080	N9	G	A	293	134.171	87.066	-0.049	1.00	63.90	A16S
ATOM	6081	C4	G	A	293	135.468	86.678	-0.257	1.00	63.90	A16S
ATOM	6082	N3	G	A	293	136.233	85.983	0.606	1.00	63.90	A16S
ATOM	6083	C2	G	A	293	137.440	85.760	0.121	1.00	63.90	A16S
ATOM	6084	N2	G	A	293	138.332	85.079	0.847	1.00	63.90	A16S
ATOM	6085	N1	G	A	293	137.866	86.189	-1.111	1.00	63.90	A16S
ATOM	6086	C6	G	A	293	137.100	86.911	-2.014	1.00	63.90	A16S
ATOM	6087	O6	G	A	293	137.588	87.258	-3.100	1.00	63.90	A16S
ATOM	6088	C5	G	A	293	135.795	87.152	-1.510	1.00	63.90	A16S
ATOM	6089	N7	G	A	293	134.720	87.813	-2.083	1.00	63.90	A16S
ATOM	6090	C8	G	A	293	133.781	87.736	-1.183	1.00	63.90	A16S
ATOM	6091	C2*	G	A	293	133.966	87.474	2.406	1.00	39.59	A16S
ATOM	6092	O2*	G	A	293	133.758	86.679	3.553	1.00	39.59	A16S
ATOM	6093	C3*	G	A	293	133.192	88.776	2.478	1.00	39.59	A16S
ATOM	6094	O3*	G	A	293	133.060	89.237	3.797	1.00	39.59	A16S
ATOM	6095	P	U	A	294	134.003	90.416	4.290	1.00	46.05	A16S
ATOM	6096	O1P	U	A	294	133.686	90.728	5.700	1.00	53.99	A16S
ATOM	6097	O2P	U	A	294	133.946	91.495	3.264	1.00	53.99	A16S
ATOM	6098	O5*	U	A	294	135.435	89.727	4.262	1.00	46.05	A16S
ATOM	6099	C5*	U	A	294	135.682	88.572	5.075	1.00	46.05	A16S
ATOM	6100	C4*	U	A	294	137.099	88.083	4.899	1.00	46.05	A16S
ATOM	6101	O4*	U	A	294	137.252	87.409	3.626	1.00	46.05	A16S
ATOM	6102	C1*	U	A	294	138.547	87.657	3.119	1.00	46.05	A16S
ATOM	6103	N1	U	A	294	138.401	88.331	1.824	1.00	53.99	A16S
ATOM	6104	C6	U	A	294	137.214	88.911	1.465	1.00	53.99	A16S
ATOM	6105	C2	U	A	294	139.493	88.364	0.981	1.00	53.99	A16S
ATOM	6106	O2	U	A	294	140.567	87.870	1.267	1.00	53.99	A16S
ATOM	6107	N3	U	A	294	139.281	89.005	-0.209	1.00	53.99	A16S
ATOM	6108	C4	U	A	294	138.118	89.615	-0.620	1.00	53.99	A16S
ATOM	6109	O4	U	A	294	138.105	90.242	-1.679	1.00	53.99	A16S
ATOM	6110	C5	U	A	294	137.039	89.533	0.308	1.00	53.99	A16S
ATOM	6111	C2*	U	A	294	139.307	88.491	4.155	1.00	46.05	A16S
ATOM	6112	O2*	U	A	294	140.042	87.631	5.000	1.00	46.05	A16S
ATOM	6113	C3*	U	A	294	138.172	89.151	4.918	1.00	46.05	A16S
ATOM	6114	O3*	U	A	294	138.552	89.457	6.245	1.00	46.05	A16S
ATOM	6115	P	C	A	295	139.005	90.952	6.603	1.00	44.92	A16S
ATOM	6116	O1P	C	A	295	139.166	91.049	8.096	1.00	46.12	A16S
ATOM	6117	O2P	C	A	295	138.079	91.879	5.888	1.00	46.12	A16S
ATOM	6118	O5*	C	A	295	140.441	91.091	5.934	1.00	44.92	A16S
ATOM	6119	C5*	C	A	295	141.545	90.348	6.450	1.00	44.92	A16S
ATOM	6120	C4*	C	A	295	142.760	90.530	5.578	1.00	44.92	A16S
ATOM	6121	O4*	C	A	295	142.550	89.898	4.291	1.00	44.92	A16S
ATOM	6122	C1*	C	A	295	143.247	90.614	3.295	1.00	44.92	A16S
ATOM	6123	N1	C	A	295	142.281	91.101	2.304	1.00	46.12	A16S
ATOM	6124	C6	C	A	295	140.938	91.065	2.549	1.00	46.12	A16S
ATOM	6125	C2	C	A	295	142.763	91.611	1.097	1.00	46.12	A16S
ATOM	6126	O2	C	A	295	143.989	91.628	0.898	1.00	46.12	A16S
ATOM	6127	N3	C	A	295	141.888	92.073	0.179	1.00	46.12	A16S
ATOM	6128	C4	C	A	295	140.580	92.033	0.427	1.00	46.12	A16S
ATOM	6129	N4	C	A	295	139.752	92.494	-0.514	1.00	46.12	A16S
ATOM	6130	C5	C	A	295	140.061	91.517	1.648	1.00	46.12	A16S
ATOM	6131	C2*	C	A	295	143.996	91.747	3.988	1.00	44.92	A16S
ATOM	6132	O2*	C	A	295	145.271	91.243	4.323	1.00	44.92	A16S
ATOM	6133	C3*	C	A	295	143.149	91.951	5.232	1.00	44.92	A16S
ATOM	6134	O3*	C	A	295	143.858	92.571	6.288	1.00	44.92	A16S
ATOM	6135	P	U	A	296	143.596	94.127	6.597	1.00	40.84	A16S
ATOM	6136	O1P	U	A	296	144.135	94.417	7.960	1.00	43.01	A16S
ATOM	6137	O2P	U	A	296	142.168	94.405	6.295	1.00	43.01	A16S
ATOM	6138	O5*	U	A	296	144.448	94.893	5.490	1.00	40.84	A16S
ATOM	6139	C5*	U	A	296	145.854	94.634	5.339	1.00	40.84	A16S
ATOM	6140	C4*	U	A	296	146.319	95.048	3.966	1.00	40.84	A16S
ATOM	6141	O4*	U	A	296	145.641	94.253	2.962	1.00	40.84	A16S
ATOM	6142	C1*	U	A	296	145.490	95.018	1.786	1.00	40.84	A16S
ATOM	6143	N1	U	A	296	144.077	95.056	1.415	1.00	43.01	A16S
ATOM	6144	C6	U	A	296	143.082	94.776	2.314	1.00	43.01	A16S
ATOM	6145	C2	U	A	296	143.788	95.405	0.110	1.00	43.01	A16S
ATOM	6146	O2	U	A	296	144.657	95.649	-0.720	1.00	43.01	A16S
ATOM	6147	N3	U	A	296	142.450	95.466	-0.189	1.00	43.01	A16S
ATOM	6148	C4	U	A	296	141.401	95.220	0.665	1.00	43.01	A16S
ATOM	6149	O4	U	A	296	140.252	95.410	0.274	1.00	43.01	A16S
ATOM	6150	C5	U	A	296	141.786	94.844	1.992	1.00	43.01	A16S
ATOM	6151	C2*	U	A	296	146.007	96.431	2.050	1.00	40.84	A16S
ATOM	6152	O2*	U	A	296	147.274	96.587	1.453	1.00	40.84	A16S
ATOM	6153	C3*	U	A	296	146.023	96.487	3.572	1.00	40.84	A16S

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ATOM	6154	O3*	U	A	296	147.022	97.386	4.043	1.00	40.84	A16S
ATOM	6155	P	G	A	297	146.625	98.909	4.353	1.00	29.70	A16S
ATOM	6156	O1P	G	A	297	147.864	99.617	4.816	1.00	51.89	A16S
ATOM	6157	O2P	G	A	297	145.425	98.896	5.219	1.00	51.89	A16S
ATOM	6158	O5*	G	A	297	146.149	99.462	2.939	1.00	29.70	A16S
ATOM	6159	C5*	G	A	297	147.093	99.648	1.885	1.00	29.70	A16S
ATOM	6160	C4*	G	A	297	146.404	100.172	0.661	1.00	29.70	A16S
ATOM	6161	O4*	G	A	297	145.602	99.124	0.071	1.00	29.70	A16S
ATOM	6162	C1*	G	A	297	144.498	99.698	-0.603	1.00	29.70	A16S
ATOM	6163	N9	G	A	297	143.283	99.163	-0.009	1.00	51.89	A16S
ATOM	6164	C4	G	A	297	142.040	99.168	-0.567	1.00	51.89	A16S
ATOM	6165	N3	G	A	297	141.735	99.612	-1.794	1.00	51.89	A16S
ATOM	6166	C2	G	A	297	140.452	99.524	-2.037	1.00	51.89	A16S
ATOM	6167	N2	G	A	297	139.978	99.905	-3.226	1.00	51.89	A16S
ATOM	6168	N1	G	A	297	139.539	99.051	-1.133	1.00	51.89	A16S
ATOM	6169	C6	G	A	297	139.841	98.585	0.142	1.00	51.89	A16S
ATOM	6170	O6	G	A	297	138.936	98.177	0.896	1.00	51.89	A16S
ATOM	6171	C5	G	A	297	141.205	98.660	0.398	1.00	51.89	A16S
ATOM	6172	N7	G	A	297	141.917	98.295	1.523	1.00	51.89	A16S
ATOM	6173	C8	G	A	297	143.149	98.602	1.233	1.00	51.89	A16S
ATOM	6174	C2*	G	A	297	144.576	101.215	-0.404	1.00	29.70	A16S
ATOM	6175	O2*	G	A	297	145.252	101.825	-1.483	1.00	29.70	A16S
ATOM	6176	C3*	G	A	297	145.423	101.315	0.848	1.00	29.70	A16S
ATOM	6177	O3*	G	A	297	146.051	102.575	0.912	1.00	29.70	A16S
ATOM	6178	P	A	A	298	145.535	103.646	1.990	1.00	37.73	A16S
ATOM	6179	O1P	A	A	298	146.541	104.751	2.119	1.00	54.83	A16S
ATOM	6180	O2P	A	A	298	145.168	102.841	3.199	1.00	54.83	A16S
ATOM	6181	O5*	A	A	298	144.200	104.236	1.336	1.00	37.73	A16S
ATOM	6182	C5*	A	A	298	143.188	104.860	2.157	1.00	37.73	A16S
ATOM	6183	C4*	A	A	298	142.240	105.654	1.304	1.00	37.73	A16S
ATOM	6184	O4*	A	A	298	142.971	106.730	0.685	1.00	37.73	A16S
ATOM	6185	C1*	A	A	298	142.516	106.908	-0.645	1.00	37.73	A16S
ATOM	6186	N9	A	A	298	143.658	106.752	-1.553	1.00	54.83	A16S
ATOM	6187	C4	A	A	298	143.764	107.275	-2.821	1.00	54.83	A16S
ATOM	6188	N3	A	A	298	142.842	107.984	-3.488	1.00	54.83	A16S
ATOM	6189	C2	A	A	298	143.305	108.350	-4.680	1.00	54.83	A16S
ATOM	6190	N1	A	A	298	144.497	108.113	-5.241	1.00	54.83	A16S
ATOM	6191	C6	A	A	298	145.407	107.401	-4.547	1.00	54.83	A16S
ATOM	6192	N6	A	A	298	146.606	107.185	-5.103	1.00	54.83	A16S
ATOM	6193	C5	A	A	298	145.033	106.938	-3.266	1.00	54.83	A16S
ATOM	6194	N7	A	A	298	145.702	106.183	-2.312	1.00	54.83	A16S
ATOM	6195	C8	A	A	298	144.845	106.095	-1.321	1.00	54.83	A16S
ATOM	6196	C2*	A	A	298	141.360	105.936	-0.891	1.00	37.73	A16S
ATOM	6197	O2*	A	A	298	140.146	106.605	-0.649	1.00	37.73	A16S
ATOM	6198	C3*	A	A	298	141.608	104.870	0.164	1.00	37.73	A16S
ATOM	6199	O3*	A	A	298	140.369	104.317	0.589	1.00	37.73	A16S
ATOM	6200	P	G	A	299	139.985	102.802	0.201	1.00	39.51	A16S
ATOM	6201	O1P	G	A	299	138.728	102.421	0.931	1.00	58.86	A16S
ATOM	6202	O2P	G	A	299	141.225	101.985	0.392	1.00	58.86	A16S
ATOM	6203	O5*	G	A	299	139.613	102.870	-1.349	1.00	39.51	A16S
ATOM	6204	C5*	G	A	299	138.386	103.468	-1.770	1.00	39.51	A16S
ATOM	6205	C4*	G	A	299	138.542	104.021	-3.154	1.00	39.51	A16S
ATOM	6206	O4*	G	A	299	139.788	104.745	-3.188	1.00	39.51	A16S
ATOM	6207	C1*	G	A	299	140.397	104.590	-4.452	1.00	39.51	A16S
ATOM	6208	N9	G	A	299	141.757	104.108	-4.223	1.00	58.86	A16S
ATOM	6209	C4	G	A	299	142.867	104.302	-5.024	1.00	58.86	A16S
ATOM	6210	N3	G	A	299	142.893	104.935	-6.213	1.00	58.86	A16S
ATOM	6211	C2	G	A	299	144.113	104.983	-6.717	1.00	58.86	A16S
ATOM	6212	N2	G	A	299	144.327	105.561	-7.896	1.00	58.86	A16S
ATOM	6213	N1	G	A	299	145.219	104.464	-6.104	1.00	58.86	A16S
ATOM	6214	C6	G	A	299	145.221	103.810	-4.882	1.00	58.86	A16S
ATOM	6215	O6	G	A	299	146.288	103.381	-4.411	1.00	58.86	A16S
ATOM	6216	C5	G	A	299	143.917	103.737	-4.332	1.00	58.86	A16S
ATOM	6217	N7	G	A	299	143.476	103.171	-3.146	1.00	58.86	A16S
ATOM	6218	C8	G	A	299	142.193	103.407	-3.128	1.00	58.86	A16S
ATOM	6219	C2*	G	A	299	139.482	103.716	-5.317	1.00	39.51	A16S
ATOM	6220	O2*	G	A	299	138.661	104.542	-6.119	1.00	39.51	A16S
ATOM	6221	C3*	G	A	299	138.647	102.996	-4.268	1.00	39.51	A16S
ATOM	6222	O3*	G	A	299	137.346	102.713	-4.778	1.00	39.51	A16S
ATOM	6223	P	A	A	300	136.983	101.220	-5.246	1.00	47.20	A16S
ATOM	6224	O1P	A	A	300	135.531	101.172	-5.577	1.00	53.45	A16S
ATOM	6225	O2P	A	A	300	137.518	100.284	-4.228	1.00	53.45	A16S
ATOM	6226	O5*	A	A	300	137.824	101.037	-6.595	1.00	47.20	A16S
ATOM	6227	C5*	A	A	300	137.454	101.739	-7.814	1.00	47.20	A16S
ATOM	6228	C4*	A	A	300	138.587	101.711	-8.828	1.00	47.20	A16S
ATOM	6229	O4*	A	A	300	139.726	102.468	-8.336	1.00	47.20	A16S
ATOM	6230	C1*	A	A	300	140.930	101.849	-8.748	1.00	47.20	A16S

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ATOM	6231	N9	A	A	300	141.611	101.360	-7.551	1.00	53.45	A16S
ATOM	6232	C4	A	A	300	142.960	101.371	-7.296	1.00	53.45	A16S
ATOM	6233	N3	A	A	300	143.938	101.831	-8.093	1.00	53.45	A16S
ATOM	6234	C2	A	A	300	145.136	101.697	-7.499	1.00	53.45	A16S
ATOM	6235	N1	A	A	300	145.439	101.199	-6.289	1.00	53.45	A16S
ATOM	6236	C6	A	A	300	144.430	100.749	-5.513	1.00	53.45	A16S
ATOM	6237	N6	A	A	300	144.728	100.273	-4.304	1.00	53.45	A16S
ATOM	6238	C5	A	A	300	143.113	100.824	-6.032	1.00	53.45	A16S
ATOM	6239	N7	A	A	300	141.883	100.460	-5.507	1.00	53.45	A16S
ATOM	6240	C8	A	A	300	141.029	100.799	-6.442	1.00	53.45	A16S
ATOM	6241	C2*	A	A	300	140.544	100.708	-9.682	1.00	47.20	A16S
ATOM	6242	O2*	A	A	300	140.449	101.215	-10.990	1.00	47.20	A16S
ATOM	6243	C3*	A	A	300	139.159	100.350	-9.176	1.00	47.20	A16S
ATOM	6244	O3*	A	A	300	138.424	99.729	-10.207	1.00	47.20	A16S
ATOM	6245	P	G	A	301	138.251	98.129	-10.216	1.00	47.54	A16S
ATOM	6246	O1P	G	A	301	137.838	97.791	-11.621	1.00	45.24	A16S
ATOM	6247	O2P	G	A	301	137.361	97.767	-9.072	1.00	45.24	A16S
ATOM	6248	O5*	G	A	301	139.702	97.526	-9.890	1.00	47.54	A16S
ATOM	6249	C5*	G	A	301	140.730	97.471	-10.899	1.00	47.54	A16S
ATOM	6250	C4*	G	A	301	142.109	97.332	-10.274	1.00	47.54	A16S
ATOM	6251	O4*	G	A	301	142.237	98.213	-9.124	1.00	47.54	A16S
ATOM	6252	C1*	G	A	301	143.166	97.665	-8.198	1.00	47.54	A16S
ATOM	6253	N9	G	A	301	142.505	97.457	-6.909	1.00	45.24	A16S
ATOM	6254	C4	G	A	301	143.117	97.097	-5.732	1.00	45.24	A16S
ATOM	6255	N3	G	A	301	144.439	96.902	-5.554	1.00	45.24	A16S
ATOM	6256	C2	G	A	301	144.724	96.532	-4.310	1.00	45.24	A16S
ATOM	6257	N2	G	A	301	146.005	96.299	-3.951	1.00	45.24	A16S
ATOM	6258	N1	G	A	301	143.780	96.361	-3.327	1.00	45.24	A16S
ATOM	6259	C6	G	A	301	142.416	96.558	-3.491	1.00	45.24	A16S
ATOM	6260	O6	G	A	301	141.652	96.369	-2.540	1.00	45.24	A16S
ATOM	6261	C5	G	A	301	142.100	96.968	-4.815	1.00	45.24	A16S
ATOM	6262	N7	G	A	301	140.878	97.272	-5.391	1.00	45.24	A16S
ATOM	6263	C8	G	A	301	141.165	97.554	-6.631	1.00	45.24	A16S
ATOM	6264	C2*	G	A	301	143.678	96.356	-8.796	1.00	47.54	A16S
ATOM	6265	O2*	G	A	301	144.859	96.643	-9.505	1.00	47.54	A16S
ATOM	6266	C3*	G	A	301	142.550	95.975	-9.747	1.00	47.54	A16S
ATOM	6267	O3*	G	A	301	143.059	95.157	-10.794	1.00	47.54	A16S
ATOM	6268	P	G	A	302	143.250	93.574	-10.558	1.00	41.78	A16S
ATOM	6269	O1P	G	A	302	143.823	93.045	-11.823	1.00	36.44	A16S
ATOM	6270	O2P	G	A	302	142.005	92.980	-10.018	1.00	36.44	A16S
ATOM	6271	O5*	G	A	302	144.367	93.476	-9.432	1.00	41.78	A16S
ATOM	6272	C5*	G	A	302	145.717	93.825	-9.728	1.00	41.78	A16S
ATOM	6273	C4*	G	A	302	146.593	93.494	-8.563	1.00	41.78	A16S
ATOM	6274	O4*	G	A	302	146.205	94.294	-7.418	1.00	41.78	A16S
ATOM	6275	C1*	G	A	302	146.278	93.517	-6.238	1.00	41.78	A16S
ATOM	6276	N9	G	A	302	144.918	93.389	-5.713	1.00	36.44	A16S
ATOM	6277	C4	G	A	302	144.546	93.104	-4.410	1.00	36.44	A16S
ATOM	6278	N3	G	A	302	145.381	92.884	-3.367	1.00	36.44	A16S
ATOM	6279	C2	G	A	302	144.714	92.644	-2.245	1.00	36.44	A16S
ATOM	6280	N2	G	A	302	145.378	92.415	-1.114	1.00	36.44	A16S
ATOM	6281	N1	G	A	302	143.349	92.623	-2.151	1.00	36.44	A16S
ATOM	6282	C6	G	A	302	142.473	92.861	-3.202	1.00	36.44	A16S
ATOM	6283	O6	G	A	302	141.253	92.848	-2.999	1.00	36.44	A16S
ATOM	6284	C5	G	A	302	143.165	93.108	-4.417	1.00	36.44	A16S
ATOM	6285	N7	G	A	302	142.677	93.376	-5.691	1.00	36.44	A16S
ATOM	6286	C8	G	A	302	143.746	93.534	-6.424	1.00	36.44	A16S
ATOM	6287	C2*	G	A	302	146.877	92.165	-6.635	1.00	41.78	A16S
ATOM	6288	O2*	G	A	302	148.293	92.204	-6.533	1.00	41.78	A16S
ATOM	6289	C3*	G	A	302	146.454	92.066	-8.090	1.00	41.78	A16S
ATOM	6290	O3*	G	A	302	147.283	91.195	-8.827	1.00	41.78	A16S
ATOM	6291	P	A	A	303	146.897	89.651	-8.921	1.00	48.95	A16S
ATOM	6292	O1P	A	A	303	148.021	89.012	-9.652	1.00	51.24	A16S
ATOM	6293	O2P	A	A	303	145.511	89.537	-9.447	1.00	51.24	A16S
ATOM	6294	O5*	A	A	303	146.892	89.161	-7.406	1.00	48.95	A16S
ATOM	6295	C5*	A	A	303	148.122	88.950	-6.709	1.00	48.95	A16S
ATOM	6296	C4*	A	A	303	147.859	88.468	-5.305	1.00	48.95	A16S
ATOM	6297	O4*	A	A	303	147.228	89.535	-4.549	1.00	48.95	A16S
ATOM	6298	C1*	A	A	303	146.370	88.976	-3.562	1.00	48.95	A16S
ATOM	6299	N9	A	A	303	144.989	89.372	-3.849	1.00	51.24	A16S
ATOM	6300	C4	A	A	303	143.941	89.349	-2.960	1.00	51.24	A16S
ATOM	6301	N3	A	A	303	143.989	89.068	-1.648	1.00	51.24	A16S
ATOM	6302	C2	A	A	303	142.764	89.064	-1.123	1.00	51.24	A16S
ATOM	6303	N1	A	A	303	141.589	89.281	-1.718	1.00	51.24	A16S
ATOM	6304	C6	A	A	303	141.579	89.559	-3.040	1.00	51.24	A16S
ATOM	6305	N6	A	A	303	140.408	89.745	-3.648	1.00	51.24	A16S
ATOM	6306	C5	A	A	303	142.812	89.618	-3.705	1.00	51.24	A16S
ATOM	6307	N7	A	A	303	143.146	89.889	-5.022	1.00	51.24	A16S

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ATOM	6308	C8	A	A 303	144.448	89.748	-5.052	1.00	51.24	A16S
ATOM	6309	C2*	A	A 303	146.488	87.451	-3.668	1.00	48.95	A16S
ATOM	6310	O2*	A	A 303	147.450	86.955	-2.751	1.00	48.95	A16S
ATOM	6311	C3*	A	A 303	146.929	87.273	-5.114	1.00	48.95	A16S
ATOM	6312	O3*	A	A 303	147.566	86.012	-5.281	1.00	48.95	A16S
ATOM	6313	P	U	A 304	146.692	84.721	-5.709	1.00	53.40	A16S
ATOM	6314	O1P	U	A 304	147.656	83.592	-5.846	1.00	66.33	A16S
ATOM	6315	O2P	U	A 304	145.806	85.076	-6.849	1.00	66.33	A16S
ATOM	6316	O5*	U	A 304	145.761	84.407	-4.455	1.00	53.40	A16S
ATOM	6317	C5*	U	A 304	146.334	84.068	-3.184	1.00	53.40	A16S
ATOM	6318	C4*	U	A 304	145.274	84.068	-2.113	1.00	53.40	A16S
ATOM	6319	O4*	U	A 304	144.648	85.373	-2.067	1.00	53.40	A16S
ATOM	6320	C1*	U	A 304	143.286	85.241	-1.700	1.00	53.40	A16S
ATOM	6321	N1	U	A 304	142.435	85.808	-2.763	1.00	66.33	A16S
ATOM	6322	C6	U	A 304	142.932	86.111	-4.009	1.00	66.33	A16S
ATOM	6323	C2	U	A 304	141.097	86.026	-2.468	1.00	66.33	A16S
ATOM	6324	O2	U	A 304	140.607	85.775	-1.381	1.00	66.33	A16S
ATOM	6325	N3	U	A 304	140.350	86.547	-3.495	1.00	66.33	A16S
ATOM	6326	C4	U	A 304	140.785	86.866	-4.761	1.00	66.33	A16S
ATOM	6327	O4	U	A 304	139.987	87.345	-5.573	1.00	66.33	A16S
ATOM	6328	C5	U	A 304	142.172	86.617	-4.990	1.00	66.33	A16S
ATOM	6329	C2*	U	A 304	143.025	83.759	-1.446	1.00	53.40	A16S
ATOM	6330	O2*	U	A 304	143.211	83.516	-0.066	1.00	53.40	A16S
ATOM	6331	C3*	U	A 304	144.110	83.107	-2.294	1.00	53.40	A16S
ATOM	6332	O3*	U	A 304	144.421	81.795	-1.834	1.00	53.40	A16S
ATOM	6333	P	G	A 305	143.623	80.526	-2.428	1.00	64.27	A16S
ATOM	6334	O1P	G	A 305	144.319	79.328	-1.887	1.00	63.47	A16S
ATOM	6335	O2P	G	A 305	143.427	80.667	-3.911	1.00	63.47	A16S
ATOM	6336	O5*	G	A 305	142.199	80.601	-1.725	1.00	64.27	A16S
ATOM	6337	C5*	G	A 305	142.077	80.507	-0.299	1.00	64.27	A16S
ATOM	6338	C4*	G	A 305	140.621	80.485	0.087	1.00	64.27	A16S
ATOM	6339	O4*	G	A 305	139.990	81.658	-0.484	1.00	64.27	A16S
ATOM	6340	C1*	G	A 305	138.906	81.274	-1.299	1.00	64.27	A16S
ATOM	6341	N9	G	A 305	138.827	82.194	-2.430	1.00	63.47	A16S
ATOM	6342	C4	G	A 305	137.780	83.043	-2.730	1.00	63.47	A16S
ATOM	6343	N3	G	A 305	136.649	83.197	-2.013	1.00	63.47	A16S
ATOM	6344	C2	G	A 305	135.827	84.056	-2.578	1.00	63.47	A16S
ATOM	6345	N2	G	A 305	134.658	84.331	-2.012	1.00	63.47	A16S
ATOM	6346	N1	G	A 305	136.088	84.711	-3.745	1.00	63.47	A16S
ATOM	6347	C6	G	A 305	137.242	84.573	-4.497	1.00	63.47	A16S
ATOM	6348	O6	G	A 305	137.374	85.212	-5.548	1.00	63.47	A16S
ATOM	6349	C5	G	A 305	138.138	83.662	-3.906	1.00	63.47	A16S
ATOM	6350	N7	G	A 305	139.393	83.241	-4.323	1.00	63.47	A16S
ATOM	6351	C8	G	A 305	139.765	82.377	-3.416	1.00	63.47	A16S
ATOM	6352	C2*	G	A 305	139.168	79.820	-1.685	1.00	64.27	A16S
ATOM	6353	O2*	G	A 305	137.962	79.160	-2.015	1.00	64.27	A16S
ATOM	6354	C3*	G	A 305	139.824	79.286	-0.417	1.00	64.27	A16S
ATOM	6355	O3*	G	A 305	138.798	78.991	0.535	1.00	64.27	A16S
ATOM	6356	P	G	A 306	138.787	77.575	1.301	1.00	69.58	A16S
ATOM	6357	O1P	G	A 306	139.343	76.558	0.360	1.00	93.76	A16S
ATOM	6358	O2P	G	A 306	137.424	77.375	1.878	1.00	93.76	A16S
ATOM	6359	O5*	G	A 306	139.808	77.805	2.504	1.00	69.58	A16S
ATOM	6360	C5*	G	A 306	140.698	76.764	2.916	1.00	69.58	A16S
ATOM	6361	C4*	G	A 306	140.855	76.774	4.412	1.00	69.58	A16S
ATOM	6362	O4*	G	A 306	141.538	77.981	4.819	1.00	69.58	A16S
ATOM	6363	C1*	G	A 306	141.073	78.380	6.093	1.00	69.58	A16S
ATOM	6364	N9	G	A 306	140.583	79.747	5.990	1.00	93.76	A16S
ATOM	6365	C4	G	A 306	140.280	80.570	7.040	1.00	93.76	A16S
ATOM	6366	N3	G	A 306	140.397	80.257	8.351	1.00	93.76	A16S
ATOM	6367	C2	G	A 306	139.996	81.247	9.133	1.00	93.76	A16S
ATOM	6368	N2	G	A 306	140.019	81.095	10.465	1.00	93.76	A16S
ATOM	6369	N1	G	A 306	139.534	82.459	8.663	1.00	93.76	A16S
ATOM	6370	C6	G	A 306	139.411	82.805	7.315	1.00	93.76	A16S
ATOM	6371	O6	G	A 306	138.981	83.928	6.995	1.00	93.76	A16S
ATOM	6372	C5	G	A 306	139.825	81.741	6.466	1.00	93.76	A16S
ATOM	6373	N7	G	A 306	139.857	81.656	5.079	1.00	93.76	A16S
ATOM	6374	C8	G	A 306	140.318	80.459	4.842	1.00	93.76	A16S
ATOM	6375	C2*	G	A 306	139.993	77.390	6.545	1.00	69.58	A16S
ATOM	6376	O2*	G	A 306	140.534	76.484	7.492	1.00	69.58	A16S
ATOM	6377	C3*	G	A 306	139.569	76.757	5.220	1.00	69.58	A16S
ATOM	6378	O3*	G	A 306	139.093	75.423	5.368	1.00	69.58	A16S
ATOM	6379	P	C	A 307	137.508	75.133	5.420	1.00	72.72	A16S
ATOM	6380	O1P	C	A 307	136.842	75.783	4.251	1.00	75.82	A16S
ATOM	6381	O2P	C	A 307	137.381	73.662	5.610	1.00	75.82	A16S
ATOM	6382	O5*	C	A 307	137.026	75.870	6.757	1.00	72.72	A16S
ATOM	6383	C5*	C	A 307	137.490	75.419	8.055	1.00	72.72	A16S
ATOM	6384	C4*	C	A 307	137.074	76.375	9.158	1.00	72.72	A16S

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ATOM	6385	O4*	C	A	307	137.780	77.634	9.035	1.00	72.72	A16S
ATOM	6386	C1*	C	A	307	136.955	78.690	9.501	1.00	72.72	A16S
ATOM	6387	N1	C	A	307	136.724	79.625	8.391	1.00	75.82	A16S
ATOM	6388	C6	C	A	307	137.041	79.282	7.106	1.00	75.82	A16S
ATOM	6389	C2	C	A	307	136.171	80.875	8.671	1.00	75.82	A16S
ATOM	6390	O2	C	A	307	135.878	81.155	9.848	1.00	75.82	A16S
ATOM	6391	N3	C	A	307	135.965	81.745	7.657	1.00	75.82	A16S
ATOM	6392	C4	C	A	307	136.284	81.400	6.407	1.00	75.82	A16S
ATOM	6393	N4	C	A	307	136.069	82.288	5.435	1.00	75.82	A16S
ATOM	6394	C5	C	A	307	136.840	80.130	6.096	1.00	75.82	A16S
ATOM	6395	C2*	C	A	307	135.649	78.077	10.002	1.00	72.72	A16S
ATOM	6396	O2*	C	A	307	135.734	77.914	11.404	1.00	72.72	A16S
ATOM	6397	C3*	C	A	307	135.612	76.769	9.223	1.00	72.72	A16S
ATOM	6398	O3*	C	A	307	134.828	75.775	9.846	1.00	72.72	A16S
ATOM	6399	P	C	A	308	133.602	75.144	9.037	1.00	51.08	A16S
ATOM	6400	O1P	C	A	308	133.002	74.021	9.816	1.00	51.79	A16S
ATOM	6401	O2P	C	A	308	134.110	74.889	7.663	1.00	51.79	A16S
ATOM	6402	O5*	C	A	308	132.552	76.343	8.942	1.00	51.08	A16S
ATOM	6403	C5*	C	A	308	131.766	76.735	10.091	1.00	51.08	A16S
ATOM	6404	C4*	C	A	308	130.821	77.861	9.735	1.00	51.08	A16S
ATOM	6405	O4*	C	A	308	131.592	79.045	9.411	1.00	51.08	A16S
ATOM	6406	C1*	C	A	308	130.947	79.760	8.372	1.00	51.08	A16S
ATOM	6407	N1	C	A	308	131.825	79.754	7.196	1.00	51.79	A16S
ATOM	6408	C6	C	A	308	132.769	78.782	7.044	1.00	51.79	A16S
ATOM	6409	C2	C	A	308	131.666	80.741	6.222	1.00	51.79	A16S
ATOM	6410	O2	C	A	308	130.816	81.632	6.393	1.00	51.79	A16S
ATOM	6411	N3	C	A	308	132.438	80.698	5.117	1.00	51.79	A16S
ATOM	6412	C4	C	A	308	133.333	79.723	4.968	1.00	51.79	A16S
ATOM	6413	N4	C	A	308	134.044	79.690	3.848	1.00	51.79	A16S
ATOM	6414	C5	C	A	308	133.532	78.730	5.955	1.00	51.79	A16S
ATOM	6415	C2*	C	A	308	129.629	79.052	8.067	1.00	51.08	A16S
ATOM	6416	O2*	C	A	308	128.606	79.669	8.816	1.00	51.08	A16S
ATOM	6417	C3*	C	A	308	129.936	77.633	8.520	1.00	51.08	A16S
ATOM	6418	O3*	C	A	308	128.770	76.877	8.820	1.00	51.08	A16S
ATOM	6419	P	G	A	309	128.220	75.804	7.742	1.00	45.02	A16S
ATOM	6420	O1P	G	A	309	127.174	74.988	8.420	1.00	55.25	A16S
ATOM	6421	O2P	G	A	309	129.374	75.115	7.074	1.00	55.25	A16S
ATOM	6422	O5*	G	A	309	127.498	76.694	6.639	1.00	45.02	A16S
ATOM	6423	C5*	G	A	309	126.282	77.374	6.940	1.00	45.02	A16S
ATOM	6424	C4*	G	A	309	125.872	78.212	5.770	1.00	45.02	A16S
ATOM	6425	O4*	G	A	309	126.810	79.297	5.595	1.00	45.02	A16S
ATOM	6426	C1*	G	A	309	126.972	79.568	4.217	1.00	45.02	A16S
ATOM	6427	N9	G	A	309	128.370	79.347	3.876	1.00	55.25	A16S
ATOM	6428	C4	G	A	309	128.978	79.654	2.679	1.00	55.25	A16S
ATOM	6429	N3	G	A	309	128.392	80.254	1.622	1.00	55.25	A16S
ATOM	6430	C2	G	A	309	129.239	80.436	0.631	1.00	55.25	A16S
ATOM	6431	N2	G	A	309	128.840	81.064	-0.477	1.00	55.25	A16S
ATOM	6432	N1	G	A	309	130.544	80.025	0.657	1.00	55.25	A16S
ATOM	6433	C6	G	A	309	131.160	79.385	1.724	1.00	55.25	A16S
ATOM	6434	O6	G	A	309	132.339	79.028	1.634	1.00	55.25	A16S
ATOM	6435	C5	G	A	309	130.276	79.222	2.809	1.00	55.25	A16S
ATOM	6436	N7	G	A	309	130.489	78.671	4.066	1.00	55.25	A16S
ATOM	6437	C8	G	A	309	129.334	78.770	4.664	1.00	55.25	A16S
ATOM	6438	C2*	G	A	309	126.061	78.615	3.447	1.00	45.02	A16S
ATOM	6439	O2*	G	A	309	124.840	79.265	3.177	1.00	45.02	A16S
ATOM	6440	C3*	G	A	309	125.897	77.483	4.446	1.00	45.02	A16S
ATOM	6441	O3*	G	A	309	124.713	76.742	4.244	1.00	45.02	A16S
ATOM	6442	P	G	A	310	124.757	75.452	3.295	1.00	40.68	A16S
ATOM	6443	O1P	G	A	310	123.432	74.761	3.352	1.00	46.02	A16S
ATOM	6444	O2P	G	A	310	126.006	74.701	3.635	1.00	46.02	A16S
ATOM	6445	O5*	G	A	310	124.871	76.084	1.845	1.00	40.68	A16S
ATOM	6446	C5*	G	A	310	123.795	76.851	1.350	1.00	40.68	A16S
ATOM	6447	C4*	G	A	310	124.084	77.305	-0.038	1.00	40.68	A16S
ATOM	6448	O4*	G	A	310	125.202	78.222	-0.016	1.00	40.68	A16S
ATOM	6449	C1*	G	A	310	125.902	78.131	-1.243	1.00	40.68	A16S
ATOM	6450	N9	G	A	310	127.307	77.831	-0.966	1.00	46.02	A16S
ATOM	6451	C4	G	A	310	128.314	77.772	-1.900	1.00	46.02	A16S
ATOM	6452	N3	G	A	310	128.176	77.986	-3.223	1.00	46.02	A16S
ATOM	6453	C2	G	A	310	129.314	77.839	-3.869	1.00	46.02	A16S
ATOM	6454	N2	G	A	310	129.350	77.997	-5.203	1.00	46.02	A16S
ATOM	6455	N1	G	A	310	130.497	77.520	-3.261	1.00	46.02	A16S
ATOM	6456	C6	G	A	310	130.661	77.300	-1.900	1.00	46.02	A16S
ATOM	6457	O6	G	A	310	131.769	77.019	-1.458	1.00	46.02	A16S
ATOM	6458	C5	G	A	310	129.446	77.444	-1.197	1.00	46.02	A16S
ATOM	6459	N7	G	A	310	129.167	77.307	0.155	1.00	46.02	A16S
ATOM	6460	C8	G	A	310	127.887	77.546	0.247	1.00	46.02	A16S
ATOM	6461	C2*	G	A	310	125.224	77.044	-2.084	1.00	40.68	A16S

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ATOM	6462	O2*	G	A	310	124.321	77.605	-3.022	1.00	40.68	A16S
ATOM	6463	C3*	G	A	310	124.520	76.233	-1.010	1.00	40.68	A16S
ATOM	6464	O3*	G	A	310	123.455	75.457	-1.517	1.00	40.68	A16S
ATOM	6465	P	C	A	311	123.655	73.866	-1.657	1.00	49.30	A16S
ATOM	6466	O1P	C	A	311	122.322	73.255	-1.979	1.00	43.18	A16S
ATOM	6467	O2P	C	A	311	124.408	73.431	-0.435	1.00	43.18	A16S
ATOM	6468	O5*	C	A	311	124.578	73.706	-2.948	1.00	49.30	A16S
ATOM	6469	C5*	C	A	311	124.036	74.035	-4.226	1.00	49.30	A16S
ATOM	6470	C4*	C	A	311	125.118	74.280	-5.239	1.00	49.30	A16S
ATOM	6471	O4*	C	A	311	126.057	75.268	-4.758	1.00	49.30	A16S
ATOM	6472	C1*	C	A	311	127.314	75.056	-5.378	1.00	49.30	A16S
ATOM	6473	N1	C	A	311	128.332	74.788	-4.354	1.00	43.18	A16S
ATOM	6474	C6	C	A	311	128.022	74.770	-3.024	1.00	43.18	A16S
ATOM	6475	C2	C	A	311	129.647	74.526	-4.775	1.00	43.18	A16S
ATOM	6476	O2	C	A	311	129.912	74.585	-5.990	1.00	43.18	A16S
ATOM	6477	N3	C	A	311	130.591	74.223	-3.854	1.00	43.18	A16S
ATOM	6478	C4	C	A	311	130.272	74.197	-2.561	1.00	43.18	A16S
ATOM	6479	N4	C	A	311	131.230	73.892	-1.693	1.00	43.18	A16S
ATOM	6480	C5	C	A	311	128.953	74.484	-2.102	1.00	43.18	A16S
ATOM	6481	C2*	C	A	311	127.170	73.837	-6.281	1.00	49.30	A16S
ATOM	6482	O2*	C	A	311	126.848	74.295	-7.573	1.00	49.30	A16S
ATOM	6483	C3*	C	A	311	126.005	73.119	-5.631	1.00	49.30	A16S
ATOM	6484	O3*	C	A	311	125.368	72.259	-6.550	1.00	49.30	A16S
ATOM	6485	P	C	A	312	125.545	70.669	-6.391	1.00	45.42	A16S
ATOM	6486	O1P	C	A	312	124.402	70.025	-7.114	1.00	35.17	A16S
ATOM	6487	O2P	C	A	312	125.777	70.370	-4.942	1.00	35.17	A16S
ATOM	6488	O5*	C	A	312	126.894	70.360	-7.169	1.00	45.42	A16S
ATOM	6489	C5*	C	A	312	127.062	70.791	-8.523	1.00	45.42	A16S
ATOM	6490	C4*	C	A	312	128.518	70.763	-8.893	1.00	45.42	A16S
ATOM	6491	O4*	C	A	312	129.261	71.700	-8.073	1.00	45.42	A16S
ATOM	6492	C1*	C	A	312	130.521	71.151	-7.745	1.00	45.42	A16S
ATOM	6493	N1	C	A	312	130.587	70.977	-6.285	1.00	35.17	A16S
ATOM	6494	C6	C	A	312	129.456	71.029	-5.518	1.00	35.17	A16S
ATOM	6495	C2	C	A	312	131.843	70.769	-5.685	1.00	35.17	A16S
ATOM	6496	O2	C	A	312	132.857	70.699	-6.408	1.00	35.17	A16S
ATOM	6497	N3	C	A	312	131.919	70.643	-4.337	1.00	35.17	A16S
ATOM	6498	C4	C	A	312	130.807	70.709	-3.600	1.00	35.17	A16S
ATOM	6499	N4	C	A	312	130.928	70.583	-2.275	1.00	35.17	A16S
ATOM	6500	C5	C	A	312	129.519	70.906	-4.189	1.00	35.17	A16S
ATOM	6501	C2*	C	A	312	130.650	69.833	-8.497	1.00	45.42	A16S
ATOM	6502	O2*	C	A	312	131.248	70.137	-9.741	1.00	45.42	A16S
ATOM	6503	C3*	C	A	312	129.192	69.434	-8.643	1.00	45.42	A16S
ATOM	6504	O3*	C	A	312	128.941	68.558	-9.717	1.00	45.42	A16S
ATOM	6505	P	A	A	313	128.859	66.987	-9.435	1.00	34.19	A16S
ATOM	6506	O1P	A	A	313	128.415	66.318	-10.696	1.00	33.20	A16S
ATOM	6507	O2P	A	A	313	128.092	66.789	-8.189	1.00	33.20	A16S
ATOM	6508	O5*	A	A	313	130.371	66.587	-9.156	1.00	34.19	A16S
ATOM	6509	C5*	A	A	313	131.326	66.683	-10.209	1.00	34.19	A16S
ATOM	6510	C4*	A	A	313	132.696	66.428	-9.682	1.00	34.19	A16S
ATOM	6511	O4*	A	A	313	133.045	67.465	-8.740	1.00	34.19	A16S
ATOM	6512	C1*	A	A	313	133.778	66.912	-7.670	1.00	34.19	A16S
ATOM	6513	N9	A	A	313	132.962	67.051	-6.474	1.00	33.20	A16S
ATOM	6514	C4	A	A	313	133.389	66.935	-5.179	1.00	33.20	A16S
ATOM	6515	N3	A	A	313	134.634	66.683	-4.757	1.00	33.20	A16S
ATOM	6516	C2	A	A	313	134.679	66.664	-3.427	1.00	33.20	A16S
ATOM	6517	N1	A	A	313	133.696	66.847	-2.544	1.00	33.20	A16S
ATOM	6518	C6	A	A	313	132.460	67.092	-3.004	1.00	33.20	A16S
ATOM	6519	N6	A	A	313	131.486	67.274	-2.122	1.00	33.20	A16S
ATOM	6520	C5	A	A	313	132.277	67.143	-4.393	1.00	33.20	A16S
ATOM	6521	N7	A	A	313	131.158	67.383	-5.181	1.00	33.20	A16S
ATOM	6522	C8	A	A	313	131.618	67.318	-6.405	1.00	33.20	A16S
ATOM	6523	C2*	A	A	313	134.016	65.445	-8.000	1.00	34.19	A16S
ATOM	6524	O2*	A	A	313	135.256	65.346	-8.677	1.00	34.19	A16S
ATOM	6525	C3*	A	A	313	132.821	65.149	-8.895	1.00	34.19	A16S
ATOM	6526	O3*	A	A	313	132.995	64.051	-9.763	1.00	34.19	A16S
ATOM	6527	P	C	A	314	132.451	62.605	-9.321	1.00	42.44	A16S
ATOM	6528	O1P	C	A	314	132.550	61.716	-10.520	1.00	35.41	A16S
ATOM	6529	O2P	C	A	314	131.130	62.788	-8.651	1.00	35.41	A16S
ATOM	6530	O5*	C	A	314	133.505	62.127	-8.220	1.00	42.44	A16S
ATOM	6531	C5*	C	A	314	134.880	61.942	-8.560	1.00	42.44	A16S
ATOM	6532	C4*	C	A	314	135.722	61.830	-7.312	1.00	42.44	A16S
ATOM	6533	O4*	C	A	314	135.605	63.047	-6.532	1.00	42.44	A16S
ATOM	6534	C1*	C	A	314	135.733	62.745	-5.154	1.00	42.44	A16S
ATOM	6535	N1	C	A	314	134.492	63.139	-4.471	1.00	35.41	A16S
ATOM	6536	C6	C	A	314	133.332	63.328	-5.172	1.00	35.41	A16S
ATOM	6537	C2	C	A	314	134.511	63.314	-3.074	1.00	35.41	A16S
ATOM	6538	O2	C	A	314	135.571	63.141	-2.461	1.00	35.41	A16S

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ATOM	6539	N3	C	A	314	133.374	63.668	-2.435	1.00	35.41	A16S
ATOM	6540	C4	C	A	314	132.254	63.857	-3.131	1.00	35.41	A16S
ATOM	6541	N4	C	A	314	131.165	64.221	-2.464	1.00	35.41	A16S
ATOM	6542	C5	C	A	314	132.202	63.684	-4.549	1.00	35.41	A16S
ATOM	6543	C2*	C	A	314	135.994	61.243	-5.026	1.00	42.44	A16S
ATOM	6544	O2*	C	A	314	137.390	61.019	-4.915	1.00	42.44	A16S
ATOM	6545	C3*	C	A	314	135.397	60.712	-6.326	1.00	42.44	A16S
ATOM	6546	O3*	C	A	314	135.996	59.466	-6.697	1.00	42.44	A16S
ATOM	6547	P	A	A	315	135.338	58.082	-6.199	1.00	48.54	A16S
ATOM	6548	O1P	A	A	315	136.036	56.973	-6.941	1.00	44.65	A16S
ATOM	6549	O2P	A	A	315	133.854	58.197	-6.272	1.00	44.65	A16S
ATOM	6550	O5*	A	A	315	135.715	58.007	-4.658	1.00	48.54	A16S
ATOM	6551	C5*	A	A	315	137.072	58.147	-4.224	1.00	48.54	A16S
ATOM	6552	C4*	A	A	315	137.164	57.830	-2.753	1.00	48.54	A16S
ATOM	6553	O4*	A	A	315	136.347	58.782	-2.031	1.00	48.54	A16S
ATOM	6554	C1*	A	A	315	135.330	58.106	-1.337	1.00	48.54	A16S
ATOM	6555	N9	A	A	315	134.137	58.942	-1.388	1.00	44.65	A16S
ATOM	6556	C4	A	A	315	133.696	59.722	-0.356	1.00	44.65	A16S
ATOM	6557	N3	A	A	315	134.245	59.837	0.865	1.00	44.65	A16S
ATOM	6558	C2	A	A	315	133.555	60.699	1.610	1.00	44.65	A16S
ATOM	6559	N1	A	A	315	132.459	61.411	1.294	1.00	44.65	A16S
ATOM	6560	C6	A	A	315	131.935	61.271	0.051	1.00	44.65	A16S
ATOM	6561	N6	A	A	315	130.848	61.979	-0.276	1.00	44.65	A16S
ATOM	6562	C5	A	A	315	132.576	60.378	-0.832	1.00	44.65	A16S
ATOM	6563	N7	A	A	315	132.305	60.001	-2.139	1.00	44.65	A16S
ATOM	6564	C8	A	A	315	133.257	59.147	-2.420	1.00	44.65	A16S
ATOM	6565	C2*	A	A	315	135.197	56.734	-1.993	1.00	48.54	A16S
ATOM	6566	O2*	A	A	315	134.691	55.784	-1.085	1.00	48.54	A16S
ATOM	6567	C3*	A	A	315	136.639	56.448	-2.384	1.00	48.54	A16S
ATOM	6568	O3*	A	A	315	137.369	55.965	-1.245	1.00	48.54	A16S
ATOM	6569	P	G	A	316	137.810	54.418	-1.161	1.00	55.08	A16S
ATOM	6570	O1P	G	A	316	136.946	53.664	-2.112	1.00	56.92	A16S
ATOM	6571	O2P	G	A	316	137.853	54.023	0.273	1.00	56.92	A16S
ATOM	6572	O5*	G	A	316	139.303	54.413	-1.707	1.00	55.08	A16S
ATOM	6573	C5*	G	A	316	140.265	55.350	-1.211	1.00	55.08	A16S
ATOM	6574	C4*	G	A	316	141.607	55.102	-1.854	1.00	55.08	A16S
ATOM	6575	O4*	G	A	316	142.076	53.791	-1.449	1.00	55.08	A16S
ATOM	6576	C1*	G	A	316	142.770	53.178	-2.519	1.00	55.08	A16S
ATOM	6577	N9	G	A	316	142.052	51.960	-2.883	1.00	56.92	A16S
ATOM	6578	C4	G	A	316	142.343	51.125	-3.932	1.00	56.92	A16S
ATOM	6579	N3	G	A	316	143.356	51.281	-4.813	1.00	56.92	A16S
ATOM	6580	C2	G	A	316	143.375	50.315	-5.715	1.00	56.92	A16S
ATOM	6581	N2	G	A	316	144.312	50.313	-6.665	1.00	56.92	A16S
ATOM	6582	N1	G	A	316	142.471	49.280	-5.750	1.00	56.92	A16S
ATOM	6583	C6	G	A	316	141.420	49.102	-4.852	1.00	56.92	A16S
ATOM	6584	O6	G	A	316	140.657	48.131	-4.970	1.00	56.92	A16S
ATOM	6585	C5	G	A	316	141.389	50.128	-3.881	1.00	56.92	A16S
ATOM	6586	N7	G	A	316	140.522	50.329	-2.817	1.00	56.92	A16S
ATOM	6587	C8	G	A	316	140.953	51.424	-2.254	1.00	56.92	A16S
ATOM	6588	C2*	G	A	316	142.844	54.190	-3.663	1.00	55.08	A16S
ATOM	6589	O2*	G	A	316	144.060	54.903	-3.554	1.00	55.08	A16S
ATOM	6590	C3*	G	A	316	141.631	55.064	-3.376	1.00	55.08	A16S
ATOM	6591	O3*	G	A	316	141.750	56.362	-3.951	1.00	55.08	A16S
ATOM	6592	P	G	A	317	140.835	56.755	-5.217	1.00	50.66	A16S
ATOM	6593	O1P	G	A	317	140.883	58.237	-5.380	1.00	62.56	A16S
ATOM	6594	O2P	G	A	317	139.514	56.063	-5.098	1.00	62.56	A16S
ATOM	6595	O5*	G	A	317	141.565	56.080	-6.456	1.00	50.66	A16S
ATOM	6596	C5*	G	A	317	142.774	56.616	-6.983	1.00	50.66	A16S
ATOM	6597	C4*	G	A	317	143.206	55.809	-8.181	1.00	50.66	A16S
ATOM	6598	O4*	G	A	317	143.610	54.473	-7.771	1.00	50.66	A16S
ATOM	6599	C1*	G	A	317	143.260	53.539	-8.780	1.00	50.66	A16S
ATOM	6600	N9	G	A	317	142.311	52.580	-8.218	1.00	62.56	A16S
ATOM	6601	C4	G	A	317	141.834	51.445	-8.837	1.00	62.56	A16S
ATOM	6602	N3	G	A	317	142.205	50.989	-10.049	1.00	62.56	A16S
ATOM	6603	C2	G	A	317	141.555	49.889	-10.380	1.00	62.56	A16S
ATOM	6604	N2	G	A	317	141.818	49.290	-11.542	1.00	62.56	A16S
ATOM	6605	N1	G	A	317	140.602	49.297	-9.595	1.00	62.56	A16S
ATOM	6606	C6	G	A	317	140.194	49.759	-8.353	1.00	62.56	A16S
ATOM	6607	O6	G	A	317	139.301	49.174	-7.744	1.00	62.56	A16S
ATOM	6608	C5	G	A	317	140.904	50.918	-7.969	1.00	62.56	A16S
ATOM	6609	N7	G	A	317	140.827	51.675	-6.810	1.00	62.56	A16S
ATOM	6610	C8	G	A	317	141.681	52.646	-6.998	1.00	62.56	A16S
ATOM	6611	C2*	G	A	317	142.635	54.325	-9.935	1.00	50.66	A16S
ATOM	6612	O2*	G	A	317	143.642	54.631	-10.874	1.00	50.66	A16S
ATOM	6613	C3*	G	A	317	142.128	55.570	-9.222	1.00	50.66	A16S
ATOM	6614	O3*	G	A	317	141.994	56.681	-10.085	1.00	50.66	A16S
ATOM	6615	P	G	A	318	140.535	57.115	-10.602	1.00	54.43	A16S

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ATOM	6616	O1P	G	A	318	140.737	58.392	-11.330	1.00	64.79	A16S
ATOM	6617	O2P	G	A	318	139.559	57.052	-9.473	1.00	64.79	A16S
ATOM	6618	O5*	G	A	318	140.167	56.010	-11.688	1.00	54.43	A16S
ATOM	6619	C5*	G	A	318	140.915	55.947	-12.909	1.00	54.43	A16S
ATOM	6620	C4*	G	A	318	140.582	54.706	-13.692	1.00	54.43	A16S
ATOM	6621	O4*	G	A	318	141.001	53.512	-12.983	1.00	54.43	A16S
ATOM	6622	C1*	G	A	318	140.164	52.430	-13.355	1.00	54.43	A16S
ATOM	6623	N9	G	A	318	139.481	51.923	-12.171	1.00	64.79	A16S
ATOM	6624	C4	G	A	318	138.723	50.777	-12.108	1.00	64.79	A16S
ATOM	6625	N3	G	A	318	138.530	49.899	-13.115	1.00	64.79	A16S
ATOM	6626	C2	G	A	318	137.737	48.904	-12.758	1.00	64.79	A16S
ATOM	6627	N2	G	A	318	137.466	47.930	-13.634	1.00	64.79	A16S
ATOM	6628	N1	G	A	318	137.162	48.788	-11.516	1.00	64.79	A16S
ATOM	6629	C6	G	A	318	137.344	49.683	-10.466	1.00	64.79	A16S
ATOM	6630	O6	G	A	318	136.770	49.494	-9.386	1.00	64.79	A16S
ATOM	6631	C5	G	A	318	138.212	50.747	-10.832	1.00	64.79	A16S
ATOM	6632	N7	G	A	318	138.670	51.828	-10.094	1.00	64.79	A16S
ATOM	6633	C8	G	A	318	139.422	52.494	-10.927	1.00	64.79	A16S
ATOM	6634	C2*	G	A	318	139.140	52.971	-14.352	1.00	54.43	A16S
ATOM	6635	O2*	G	A	318	139.620	52.754	-15.664	1.00	54.43	A16S
ATOM	6636	C3*	G	A	318	139.124	54.451	-14.003	1.00	54.43	A16S
ATOM	6637	O3*	G	A	318	138.661	55.233	-15.083	1.00	54.43	A16S
ATOM	6638	P	G	A	319	137.104	55.634	-15.146	1.00	61.31	A16S
ATOM	6639	O1P	G	A	319	136.948	56.580	-16.298	1.00	62.12	A16S
ATOM	6640	O2P	G	A	319	136.668	56.042	-13.780	1.00	62.12	A16S
ATOM	6641	O5*	G	A	319	136.348	54.290	-15.541	1.00	61.31	A16S
ATOM	6642	C5*	G	A	319	136.441	53.813	-16.878	1.00	61.31	A16S
ATOM	6643	C4*	G	A	319	135.769	52.482	-17.022	1.00	61.31	A16S
ATOM	6644	O4*	G	A	319	136.368	51.508	-16.126	1.00	61.31	A16S
ATOM	6645	C1*	G	A	319	135.392	50.544	-15.754	1.00	61.31	A16S
ATOM	6646	N9	G	A	319	135.162	50.645	-14.314	1.00	62.12	A16S
ATOM	6647	C4	G	A	319	134.438	49.770	-13.543	1.00	62.12	A16S
ATOM	6648	N3	G	A	319	133.859	48.633	-13.973	1.00	62.12	A16S
ATOM	6649	C2	G	A	319	133.219	48.008	-13.000	1.00	62.12	A16S
ATOM	6650	N2	G	A	319	132.613	46.838	-13.251	1.00	62.12	A16S
ATOM	6651	N1	G	A	319	133.135	48.479	-11.711	1.00	62.12	A16S
ATOM	6652	C6	G	A	319	133.716	49.655	-11.251	1.00	62.12	A16S
ATOM	6653	O6	G	A	319	133.565	49.999	-10.071	1.00	62.12	A16S
ATOM	6654	C5	G	A	319	134.426	50.318	-12.279	1.00	62.12	A16S
ATOM	6655	N7	G	A	319	135.155	51.495	-12.247	1.00	62.12	A16S
ATOM	6656	C8	G	A	319	135.578	51.646	-13.471	1.00	62.12	A16S
ATOM	6657	C2*	G	A	319	134.115	50.909	-16.513	1.00	61.31	A16S
ATOM	6658	O2*	G	A	319	134.118	50.266	-17.775	1.00	61.31	A16S
ATOM	6659	C3*	G	A	319	134.295	52.404	-16.701	1.00	61.31	A16S
ATOM	6660	O3*	G	A	319	133.492	52.882	-17.749	1.00	61.31	A16S
ATOM	6661	P	C	A	320	132.031	53.463	-17.411	1.00	54.37	A16S
ATOM	6662	O1P	C	A	320	131.421	53.880	-18.712	1.00	53.98	A16S
ATOM	6663	O2P	C	A	320	132.130	54.442	-16.290	1.00	53.98	A16S
ATOM	6664	O5*	C	A	320	131.228	52.191	-16.879	1.00	54.37	A16S
ATOM	6665	C5*	C	A	320	131.155	51.007	-17.689	1.00	54.37	A16S
ATOM	6666	C4*	C	A	320	130.364	49.919	-17.007	1.00	54.37	A16S
ATOM	6667	O4*	C	A	320	131.019	49.478	-15.800	1.00	54.37	A16S
ATOM	6668	C1*	C	A	320	130.047	48.982	-14.903	1.00	54.37	A16S
ATOM	6669	N1	C	A	320	130.157	49.692	-13.626	1.00	53.98	A16S
ATOM	6670	C6	C	A	320	130.599	50.980	-13.562	1.00	53.98	A16S
ATOM	6671	C2	C	A	320	129.804	49.014	-12.468	1.00	53.98	A16S
ATOM	6672	O2	C	A	320	129.355	47.863	-12.564	1.00	53.98	A16S
ATOM	6673	N3	C	A	320	129.943	49.624	-11.274	1.00	53.98	A16S
ATOM	6674	C4	C	A	320	130.390	50.874	-11.216	1.00	53.98	A16S
ATOM	6675	N4	C	A	320	130.522	51.435	-10.011	1.00	53.98	A16S
ATOM	6676	C5	C	A	320	130.725	51.605	-12.389	1.00	53.98	A16S
ATOM	6677	C2*	C	A	320	128.679	49.159	-15.549	1.00	54.37	A16S
ATOM	6678	O2*	C	A	320	128.331	47.955	-16.203	1.00	54.37	A16S
ATOM	6679	C3*	C	A	320	128.961	50.253	-16.556	1.00	54.37	A16S
ATOM	6680	O3*	C	A	320	128.054	50.167	-17.618	1.00	54.37	A16S
ATOM	6681	P	A	A	321	126.842	51.195	-17.676	1.00	60.05	A16S
ATOM	6682	O1P	A	A	321	126.328	51.177	-19.074	1.00	56.91	A16S
ATOM	6683	O2P	A	A	321	127.311	52.470	-17.072	1.00	56.91	A16S
ATOM	6684	O5*	A	A	321	125.747	50.569	-16.708	1.00	60.05	A16S
ATOM	6685	C5*	A	A	321	124.915	49.488	-17.155	1.00	60.05	A16S
ATOM	6686	C4*	A	A	321	124.545	48.596	-15.998	1.00	60.05	A16S
ATOM	6687	O4*	A	A	321	125.654	48.583	-15.065	1.00	60.05	A16S
ATOM	6688	C1*	A	A	321	125.174	48.341	-13.762	1.00	60.05	A16S
ATOM	6689	N9	A	A	321	125.630	49.408	-12.877	1.00	56.91	A16S
ATOM	6690	C4	A	A	321	125.666	49.326	-11.506	1.00	56.91	A16S
ATOM	6691	N3	A	A	321	125.303	48.282	-10.744	1.00	56.91	A16S
ATOM	6692	C2	A	A	321	125.469	48.559	-9.453	1.00	56.91	A16S

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ATOM	6693	N1	A	A 321	125.919	49.674	-8.882	1.00	56.91	A16S
ATOM	6694	C6	A	A 321	126.267	50.706	-9.673	1.00	56.91	A16S
ATOM	6695	N6	A	A 321	126.698	51.815	-9.094	1.00	56.91	A16S
ATOM	6696	C5	A	A 321	126.146	50.540	-11.065	1.00	56.91	A16S
ATOM	6697	N7	A	A 321	126.414	51.377	-12.140	1.00	56.91	A16S
ATOM	6698	C8	A	A 321	126.091	50.658	-13.189	1.00	56.91	A16S
ATOM	6699	C2*	A	A 321	123.655	48.224	-13.846	1.00	60.05	A16S
ATOM	6700	O2*	A	A 321	123.355	46.848	-13.987	1.00	60.05	A16S
ATOM	6701	C3*	A	A 321	123.352	48.975	-15.134	1.00	60.05	A16S
ATOM	6702	O3*	A	A 321	122.129	48.513	-15.709	1.00	60.05	A16S
ATOM	6703	P	C	A 322	120.713	48.954	-15.061	1.00	46.18	A16S
ATOM	6704	O1P	C	A 322	119.638	48.439	-15.964	1.00	55.47	A16S
ATOM	6705	O2P	C	A 322	120.751	50.400	-14.724	1.00	55.47	A16S
ATOM	6706	O5*	C	A 322	120.644	48.132	-13.698	1.00	46.18	A16S
ATOM	6707	C5*	C	A 322	120.640	46.696	-13.723	1.00	46.18	A16S
ATOM	6708	C4*	C	A 322	120.539	46.146	-12.325	1.00	46.18	A16S
ATOM	6709	O4*	C	A 322	121.731	46.459	-11.572	1.00	46.18	A16S
ATOM	6710	C1*	C	A 322	121.385	46.711	-10.223	1.00	46.18	A16S
ATOM	6711	N1	C	A 322	121.807	48.081	-9.884	1.00	55.47	A16S
ATOM	6712	C6	C	A 322	121.986	49.016	-10.867	1.00	55.47	A16S
ATOM	6713	C2	C	A 322	122.026	48.418	-8.530	1.00	55.47	A16S
ATOM	6714	O2	C	A 322	121.838	47.557	-7.645	1.00	55.47	A16S
ATOM	6715	N3	C	A 322	122.429	49.675	-8.227	1.00	55.47	A16S
ATOM	6716	C4	C	A 322	122.605	50.575	-9.202	1.00	55.47	A16S
ATOM	6717	N4	C	A 322	123.006	51.802	-8.860	1.00	55.47	A16S
ATOM	6718	C5	C	A 322	122.378	50.259	-10.574	1.00	55.47	A16S
ATOM	6719	C2*	C	A 322	119.878	46.502	-10.080	1.00	46.18	A16S
ATOM	6720	O2*	C	A 322	119.654	45.189	-9.630	1.00	46.18	A16S
ATOM	6721	C3*	C	A 322	119.403	46.712	-11.507	1.00	46.18	A16S
ATOM	6722	O3*	C	A 322	118.223	46.002	-11.793	1.00	46.18	A16S
ATOM	6723	P	U	A 323	116.823	46.778	-11.790	1.00	37.76	A16S
ATOM	6724	O1P	U	A 323	115.774	45.800	-12.215	1.00	66.43	A16S
ATOM	6725	O2P	U	A 323	116.974	48.065	-12.532	1.00	66.43	A16S
ATOM	6726	O5*	U	A 323	116.624	47.115	-10.249	1.00	37.76	A16S
ATOM	6727	C5*	U	A 323	116.662	46.064	-9.273	1.00	37.76	A16S
ATOM	6728	C4*	U	A 323	116.499	46.631	-7.893	1.00	37.76	A16S
ATOM	6729	O4*	U	A 323	117.747	47.185	-7.423	1.00	37.76	A16S
ATOM	6730	C1*	U	A 323	117.490	48.333	-6.646	1.00	37.76	A16S
ATOM	6731	N1	U	A 323	118.148	49.465	-7.314	1.00	66.43	A16S
ATOM	6732	C6	U	A 323	118.192	49.551	-8.688	1.00	66.43	A16S
ATOM	6733	C2	U	A 323	118.722	50.436	-6.527	1.00	66.43	A16S
ATOM	6734	O2	U	A 323	118.699	50.401	-5.310	1.00	66.43	A16S
ATOM	6735	N3	U	A 323	119.328	51.455	-7.219	1.00	66.43	A16S
ATOM	6736	C4	U	A 323	119.415	51.593	-8.587	1.00	66.43	A16S
ATOM	6737	O4	U	A 323	120.083	52.508	-9.058	1.00	66.43	A16S
ATOM	6738	C5	U	A 323	118.785	50.556	-9.331	1.00	66.43	A16S
ATOM	6739	C2*	U	A 323	115.970	48.488	-6.551	1.00	37.76	A16S
ATOM	6740	O2*	U	A 323	115.479	47.810	-5.421	1.00	37.76	A16S
ATOM	6741	C3*	U	A 323	115.515	47.769	-7.800	1.00	37.76	A16S
ATOM	6742	O3*	U	A 323	114.207	47.290	-7.692	1.00	37.76	A16S
ATOM	6743	P	G	A 324	113.002	48.203	-8.200	1.00	39.75	A16S
ATOM	6744	O1P	G	A 324	111.846	47.343	-8.607	1.00	57.08	A16S
ATOM	6745	O2P	G	A 324	113.541	49.208	-9.157	1.00	57.08	A16S
ATOM	6746	O5*	G	A 324	112.594	48.944	-6.865	1.00	39.75	A16S
ATOM	6747	C5*	G	A 324	111.979	50.217	-6.924	1.00	39.75	A16S
ATOM	6748	C4*	G	A 324	112.719	51.174	-6.042	1.00	39.75	A16S
ATOM	6749	O4*	G	A 324	114.146	51.067	-6.275	1.00	39.75	A16S
ATOM	6750	C1*	G	A 324	114.707	52.359	-6.386	1.00	39.75	A16S
ATOM	6751	N9	G	A 324	115.064	52.566	-7.791	1.00	57.08	A16S
ATOM	6752	C4	G	A 324	116.073	53.362	-8.290	1.00	57.08	A16S
ATOM	6753	N3	G	A 324	116.967	54.059	-7.564	1.00	57.08	A16S
ATOM	6754	C2	G	A 324	117.781	54.756	-8.327	1.00	57.08	A16S
ATOM	6755	N2	G	A 324	118.755	55.482	-7.770	1.00	57.08	A16S
ATOM	6756	N1	G	A 324	117.710	54.789	-9.692	1.00	57.08	A16S
ATOM	6757	C6	G	A 324	116.800	54.080	-10.464	1.00	57.08	A16S
ATOM	6758	O6	G	A 324	116.819	54.187	-11.700	1.00	57.08	A16S
ATOM	6759	C5	G	A 324	115.937	53.306	-9.662	1.00	57.08	A16S
ATOM	6760	N7	G	A 324	114.901	52.455	-10.023	1.00	57.08	A16S
ATOM	6761	C8	G	A 324	114.418	52.034	-8.887	1.00	57.08	A16S
ATOM	6762	C2*	G	A 324	113.629	53.342	-5.919	1.00	39.75	A16S
ATOM	6763	O2*	G	A 324	113.743	53.452	-4.520	1.00	39.75	A16S
ATOM	6764	C3*	G	A 324	112.356	52.611	-6.322	1.00	39.75	A16S
ATOM	6765	O3*	G	A 324	111.202	52.925	-5.561	1.00	39.75	A16S
ATOM	6766	P	A	A 325	109.927	53.594	-6.277	1.00	49.47	A16S
ATOM	6767	O1P	A	A 325	109.572	52.814	-7.501	1.00	50.07	A16S
ATOM	6768	O2P	A	A 325	108.902	53.795	-5.214	1.00	50.07	A16S
ATOM	6769	O5*	A	A 325	110.456	55.038	-6.716	1.00	49.47	A16S

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ATOM	6770	C5*	A	A 325	109.704	55.867	-7.633	1.00	49.47	A16S
ATOM	6771	C4*	A	A 325	110.226	57.283	-7.606	1.00	49.47	A16S
ATOM	6772	O4*	A	A 325	109.928	57.886	-6.329	1.00	49.47	A16S
ATOM	6773	C1*	A	A 325	110.954	58.798	-5.986	1.00	49.47	A16S
ATOM	6774	N9	A	A 325	111.452	58.472	-4.652	1.00	50.07	A16S
ATOM	6775	C4	A	A 325	112.113	59.328	-3.808	1.00	50.07	A16S
ATOM	6776	N3	A	A 325	112.451	60.598	-4.044	1.00	50.07	A16S
ATOM	6777	C2	A	A 325	113.046	61.132	-2.978	1.00	50.07	A16S
ATOM	6778	N1	A	A 325	113.328	60.579	-1.800	1.00	50.07	A16S
ATOM	6779	C6	A	A 325	112.991	59.296	-1.604	1.00	50.07	A16S
ATOM	6780	N6	A	A 325	113.299	58.738	-0.441	1.00	50.07	A16S
ATOM	6781	C5	A	A 325	112.342	58.620	-2.651	1.00	50.07	A16S
ATOM	6782	N7	A	A 325	111.859	57.327	-2.768	1.00	50.07	A16S
ATOM	6783	C8	A	A 325	111.347	57.289	-3.975	1.00	50.07	A16S
ATOM	6784	C2*	A	A 325	112.020	58.752	-7.078	1.00	49.47	A16S
ATOM	6785	O2*	A	A 325	111.832	59.821	-7.982	1.00	49.47	A16S
ATOM	6786	C3*	A	A 325	111.728	57.418	-7.738	1.00	49.47	A16S
ATOM	6787	O3*	A	A 325	112.126	57.441	-9.090	1.00	49.47	A16S
ATOM	6788	P	G	A 326	113.486	56.703	-9.521	1.00	43.44	A16S
ATOM	6789	O1P	G	A 326	113.493	56.686	-11.021	1.00	52.45	A16S
ATOM	6790	O2P	G	A 326	113.537	55.411	-8.772	1.00	52.45	A16S
ATOM	6791	O5*	G	A 326	114.664	57.630	-8.944	1.00	43.44	A16S
ATOM	6792	C5*	G	A 326	114.887	58.976	-9.435	1.00	43.44	A16S
ATOM	6793	C4*	G	A 326	115.695	59.777	-8.436	1.00	43.44	A16S
ATOM	6794	O4*	G	A 326	115.001	59.782	-7.167	1.00	43.44	A16S
ATOM	6795	C1*	G	A 326	115.930	59.684	-6.107	1.00	43.44	A16S
ATOM	6796	N9	G	A 326	115.551	58.516	-5.314	1.00	52.45	A16S
ATOM	6797	C4	G	A 326	115.731	58.326	-3.967	1.00	52.45	A16S
ATOM	6798	N3	G	A 326	116.317	59.186	-3.112	1.00	52.45	A16S
ATOM	6799	C2	G	A 326	116.319	58.720	-1.871	1.00	52.45	A16S
ATOM	6800	N2	G	A 326	116.853	59.436	-0.886	1.00	52.45	A16S
ATOM	6801	N1	G	A 326	115.792	57.515	-1.501	1.00	52.45	A16S
ATOM	6802	C6	G	A 326	115.178	56.615	-2.362	1.00	52.45	A16S
ATOM	6803	O6	G	A 326	114.718	55.551	-1.920	1.00	52.45	A16S
ATOM	6804	C5	G	A 326	115.171	57.094	-3.694	1.00	52.45	A16S
ATOM	6805	N7	G	A 326	114.663	56.517	-4.845	1.00	52.45	A16S
ATOM	6806	C8	G	A 326	114.912	57.391	-5.778	1.00	52.45	A16S
ATOM	6807	C2*	G	A 326	117.344	59.677	-6.708	1.00	43.44	A16S
ATOM	6808	O2*	G	A 326	117.908	60.972	-6.660	1.00	43.44	A16S
ATOM	6809	C3*	G	A 326	117.087	59.243	-8.149	1.00	43.44	A16S
ATOM	6810	O3*	G	A 326	118.005	59.886	-9.033	1.00	43.44	A16S
ATOM	6811	P	A	A 327	119.087	59.022	-9.846	1.00	55.37	A16S
ATOM	6812	O1P	A	A 327	119.899	60.008	-10.588	1.00	57.16	A16S
ATOM	6813	O2P	A	A 327	118.403	57.932	-10.590	1.00	57.16	A16S
ATOM	6814	O5*	A	A 327	120.009	58.389	-8.710	1.00	55.37	A16S
ATOM	6815	C5*	A	A 327	120.769	59.243	-7.837	1.00	55.37	A16S
ATOM	6816	C4*	A	A 327	122.100	58.610	-7.493	1.00	55.37	A16S
ATOM	6817	O4*	A	A 327	121.926	57.618	-6.450	1.00	55.37	A16S
ATOM	6818	C1*	A	A 327	122.515	56.407	-6.850	1.00	55.37	A16S
ATOM	6819	N9	A	A 327	121.783	55.314	-6.210	1.00	57.16	A16S
ATOM	6820	C4	A	A 327	121.681	55.119	-4.852	1.00	57.16	A16S
ATOM	6821	N3	A	A 327	122.212	55.871	-3.881	1.00	57.16	A16S
ATOM	6822	C2	A	A 327	121.901	55.376	-2.679	1.00	57.16	A16S
ATOM	6823	N1	A	A 327	121.178	54.301	-2.364	1.00	57.16	A16S
ATOM	6824	C6	A	A 327	120.664	53.567	-3.365	1.00	57.16	A16S
ATOM	6825	N6	A	A 327	119.948	52.496	-3.056	1.00	57.16	A16S
ATOM	6826	C5	A	A 327	120.917	53.982	-4.686	1.00	57.16	A16S
ATOM	6827	N7	A	A 327	120.540	53.463	-5.917	1.00	57.16	A16S
ATOM	6828	C8	A	A 327	121.077	54.287	-6.785	1.00	57.16	A16S
ATOM	6829	C2*	A	A 327	122.529	56.449	-8.379	1.00	55.37	A16S
ATOM	6830	O2*	A	A 327	123.502	55.568	-8.892	1.00	55.37	A16S
ATOM	6831	C3*	A	A 327	122.838	57.925	-8.636	1.00	55.37	A16S
ATOM	6832	O3*	A	A 327	124.249	58.142	-8.485	1.00	55.37	A16S
ATOM	6833	P	C	A 328	124.932	59.495	-9.043	1.00	49.69	A16S
ATOM	6834	O1P	C	A 328	124.837	60.511	-7.974	1.00	43.03	A16S
ATOM	6835	O2P	C	A 328	124.414	59.800	-10.421	1.00	43.03	A16S
ATOM	6836	O5*	C	A 328	126.475	59.148	-9.146	1.00	49.69	A16S
ATOM	6837	C5*	C	A 328	126.967	58.423	-10.264	1.00	49.69	A16S
ATOM	6838	C4*	C	A 328	126.800	56.956	-10.018	1.00	49.69	A16S
ATOM	6839	O4*	C	A 328	125.639	56.443	-10.689	1.00	49.69	A16S
ATOM	6840	C1*	C	A 328	125.771	55.047	-10.702	1.00	49.69	A16S
ATOM	6841	N1	C	A 328	124.794	54.484	-11.658	1.00	43.03	A16S
ATOM	6842	C6	C	A 328	123.566	54.072	-11.220	1.00	43.03	A16S
ATOM	6843	C2	C	A 328	125.138	54.352	-13.017	1.00	43.03	A16S
ATOM	6844	O2	C	A 328	126.238	54.765	-13.406	1.00	43.03	A16S
ATOM	6845	N3	C	A 328	124.263	53.778	-13.867	1.00	43.03	A16S
ATOM	6846	C4	C	A 328	123.084	53.351	-13.421	1.00	43.03	A16S

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ATOM	6847	N4	C	A	328	122.272	52.754	-14.293	1.00	43.03	A16S
ATOM	6848	C5	C	A	328	122.689	53.506	-12.057	1.00	43.03	A16S
ATOM	6849	C2*	C	A	328	127.255	54.790	-11.000	1.00	49.69	A16S
ATOM	6850	O2*	C	A	328	127.770	53.632	-10.404	1.00	49.69	A16S
ATOM	6851	C3*	C	A	328	127.924	56.088	-10.546	1.00	49.69	A16S
ATOM	6852	O3*	C	A	328	129.046	56.030	-9.637	1.00	49.69	A16S
ATOM	6853	P	A	A	329	128.894	55.495	-8.105	1.00	57.86	A16S
ATOM	6854	O1P	A	A	329	129.951	56.296	-7.407	1.00	49.05	A16S
ATOM	6855	O2P	A	A	329	128.935	54.014	-8.034	1.00	49.05	A16S
ATOM	6856	O5*	A	A	329	127.481	55.995	-7.544	1.00	57.86	A16S
ATOM	6857	C5*	A	A	329	127.395	57.108	-6.595	1.00	57.86	A16S
ATOM	6858	C4*	A	A	329	126.881	56.633	-5.238	1.00	57.86	A16S
ATOM	6859	O4*	A	A	329	125.620	55.962	-5.424	1.00	57.86	A16S
ATOM	6860	C1*	A	A	329	125.421	55.086	-4.350	1.00	57.86	A16S
ATOM	6861	N9	A	A	329	124.700	53.914	-4.808	1.00	49.05	A16S
ATOM	6862	C4	A	A	329	124.213	52.944	-3.980	1.00	49.05	A16S
ATOM	6863	N3	A	A	329	124.353	52.875	-2.648	1.00	49.05	A16S
ATOM	6864	C2	A	A	329	123.725	51.813	-2.178	1.00	49.05	A16S
ATOM	6865	N1	A	A	329	123.024	50.883	-2.841	1.00	49.05	A16S
ATOM	6866	C6	A	A	329	122.913	50.988	-4.182	1.00	49.05	A16S
ATOM	6867	N6	A	A	329	122.212	50.070	-4.850	1.00	49.05	A16S
ATOM	6868	C5	A	A	329	123.539	52.061	-4.796	1.00	49.05	A16S
ATOM	6869	N7	A	A	329	123.635	52.445	-6.120	1.00	49.05	A16S
ATOM	6870	C8	A	A	329	124.338	53.548	-6.073	1.00	49.05	A16S
ATOM	6871	C2*	A	A	329	126.768	54.752	-3.716	1.00	57.86	A16S
ATOM	6872	O2*	A	A	329	126.688	55.005	-2.331	1.00	57.86	A16S
ATOM	6873	C3*	A	A	329	127.756	55.610	-4.517	1.00	57.86	A16S
ATOM	6874	O3*	A	A	329	128.722	56.170	-3.591	1.00	57.86	A16S
ATOM	6875	P	C	A	330	128.554	57.678	-3.001	1.00	61.49	A16S
ATOM	6876	O1P	C	A	330	127.157	57.851	-2.523	1.00	59.53	A16S
ATOM	6877	O2P	C	A	330	129.148	58.688	-3.920	1.00	59.53	A16S
ATOM	6878	O5*	C	A	330	129.476	57.661	-1.710	1.00	61.49	A16S
ATOM	6879	C5*	C	A	330	129.384	56.583	-0.791	1.00	61.49	A16S
ATOM	6880	C4*	C	A	330	130.752	56.054	-0.469	1.00	61.49	A16S
ATOM	6881	O4*	C	A	330	131.604	57.152	-0.051	1.00	61.49	A16S
ATOM	6882	C1*	C	A	330	132.167	56.871	1.216	1.00	61.49	A16S
ATOM	6883	N1	C	A	330	131.413	57.660	2.211	1.00	59.53	A16S
ATOM	6884	C6	C	A	330	130.264	58.310	1.850	1.00	59.53	A16S
ATOM	6885	C2	C	A	330	131.868	57.716	3.542	1.00	59.53	A16S
ATOM	6886	O2	C	A	330	132.930	57.133	3.857	1.00	59.53	A16S
ATOM	6887	N3	C	A	330	131.132	58.396	4.456	1.00	59.53	A16S
ATOM	6888	C4	C	A	330	129.992	58.991	4.090	1.00	59.53	A16S
ATOM	6889	N4	C	A	330	129.278	59.600	5.032	1.00	59.53	A16S
ATOM	6890	C5	C	A	330	129.529	58.974	2.746	1.00	59.53	A16S
ATOM	6891	C2*	C	A	330	131.998	55.364	1.442	1.00	61.49	A16S
ATOM	6892	O2*	C	A	330	133.104	54.641	0.946	1.00	61.49	A16S
ATOM	6893	C3*	C	A	330	130.692	55.101	0.704	1.00	61.49	A16S
ATOM	6894	O3*	C	A	330	130.455	53.760	0.278	1.00	61.49	A16S
ATOM	6895	P	G	A	331	129.229	52.933	0.918	1.00	47.73	A16S
ATOM	6896	O1P	G	A	331	129.258	51.552	0.356	1.00	62.08	A16S
ATOM	6897	O2P	G	A	331	127.989	53.747	0.814	1.00	62.08	A16S
ATOM	6898	O5*	G	A	331	129.633	52.830	2.447	1.00	47.73	A16S
ATOM	6899	C5*	G	A	331	130.884	52.238	2.799	1.00	47.73	A16S
ATOM	6900	C4*	G	A	331	130.864	51.813	4.233	1.00	47.73	A16S
ATOM	6901	O4*	G	A	331	131.194	52.927	5.102	1.00	47.73	A16S
ATOM	6902	C1*	G	A	331	130.396	52.862	6.272	1.00	47.73	A16S
ATOM	6903	N9	G	A	331	129.508	54.020	6.272	1.00	62.08	A16S
ATOM	6904	C4	G	A	331	128.891	54.573	7.359	1.00	62.08	A16S
ATOM	6905	N3	G	A	331	129.021	54.163	8.633	1.00	62.08	A16S
ATOM	6906	C2	G	A	331	128.264	54.869	9.453	1.00	62.08	A16S
ATOM	6907	N2	G	A	331	128.259	54.595	10.764	1.00	62.08	A16S
ATOM	6908	N1	G	A	331	127.456	55.898	9.051	1.00	62.08	A16S
ATOM	6909	C6	G	A	331	127.321	56.342	7.743	1.00	62.08	A16S
ATOM	6910	O6	G	A	331	126.577	57.292	7.486	1.00	62.08	A16S
ATOM	6911	C5	G	A	331	128.112	55.592	6.858	1.00	62.08	A16S
ATOM	6912	N7	G	A	331	128.252	55.692	5.484	1.00	62.08	A16S
ATOM	6913	C8	G	A	331	129.094	54.746	5.180	1.00	62.08	A16S
ATOM	6914	C2*	G	A	331	129.592	51.557	6.201	1.00	47.73	A16S
ATOM	6915	O2*	G	A	331	130.305	50.524	6.847	1.00	47.73	A16S
ATOM	6916	C3*	G	A	331	129.509	51.335	4.698	1.00	47.73	A16S
ATOM	6917	O3*	G	A	331	129.288	49.999	4.309	1.00	47.73	A16S
ATOM	6918	P	G	A	332	127.806	49.388	4.387	1.00	42.12	A16S
ATOM	6919	O1P	G	A	332	126.797	50.481	4.329	1.00	54.21	A16S
ATOM	6920	O2P	G	A	332	127.820	48.449	5.544	1.00	54.21	A16S
ATOM	6921	O5*	G	A	332	127.677	48.530	3.056	1.00	42.12	A16S
ATOM	6922	C5*	G	A	332	127.610	49.168	1.781	1.00	42.12	A16S
ATOM	6923	C4*	G	A	332	126.793	48.329	0.853	1.00	42.12	A16S

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ATOM	6924	O4*	G	A	332	125.916	49.202	0.122	1.00	42.12	A16S
ATOM	6925	C1*	G	A	332	125.636	48.636	-1.143	1.00	42.12	A16S
ATOM	6926	N9	G	A	332	126.081	49.548	-2.188	1.00	54.21	A16S
ATOM	6927	C4	G	A	332	125.781	49.424	-3.518	1.00	54.21	A16S
ATOM	6928	N3	G	A	332	124.997	48.467	-4.060	1.00	54.21	A16S
ATOM	6929	C2	G	A	332	124.884	48.606	-5.365	1.00	54.21	A16S
ATOM	6930	N2	G	A	332	124.101	47.768	-6.046	1.00	54.21	A16S
ATOM	6931	N1	G	A	332	125.520	49.587	-6.094	1.00	54.21	A16S
ATOM	6932	C6	G	A	332	126.345	50.575	-5.560	1.00	54.21	A16S
ATOM	6933	O6	G	A	332	126.882	51.404	-6.307	1.00	54.21	A16S
ATOM	6934	C5	G	A	332	126.447	50.455	-4.142	1.00	54.21	A16S
ATOM	6935	N7	G	A	332	127.134	51.229	-3.215	1.00	54.21	A16S
ATOM	6936	C8	G	A	332	126.886	50.656	-2.069	1.00	54.21	A16S
ATOM	6937	C2*	G	A	332	126.396	47.317	-1.237	1.00	42.12	A16S
ATOM	6938	O2*	G	A	332	125.528	46.279	-0.860	1.00	42.12	A16S
ATOM	6939	C3*	G	A	332	127.507	47.528	-0.224	1.00	42.12	A16S
ATOM	6940	O3*	G	A	332	128.038	46.277	0.195	1.00	42.12	A16S
ATOM	6941	P	G	A	333	129.237	45.593	-0.664	1.00	43.93	A16S
ATOM	6942	O1P	G	A	333	129.642	44.331	0.034	1.00	55.94	A16S
ATOM	6943	O2P	G	A	333	130.268	46.635	-0.941	1.00	55.94	A16S
ATOM	6944	O5*	G	A	333	128.557	45.201	-2.056	1.00	43.93	A16S
ATOM	6945	C5*	G	A	333	127.619	44.123	-2.127	1.00	43.93	A16S
ATOM	6946	C4*	G	A	333	127.291	43.808	-3.562	1.00	43.93	A16S
ATOM	6947	O4*	G	A	333	126.621	44.938	-4.167	1.00	43.93	A16S
ATOM	6948	C1*	G	A	333	127.006	45.053	-5.523	1.00	43.93	A16S
ATOM	6949	N9	G	A	333	127.687	46.329	-5.683	1.00	55.94	A16S
ATOM	6950	C4	G	A	333	128.055	46.915	-6.868	1.00	55.94	A16S
ATOM	6951	N3	G	A	333	127.862	46.400	-8.098	1.00	55.94	A16S
ATOM	6952	C2	G	A	333	128.353	47.182	-9.035	1.00	55.94	A16S
ATOM	6953	N2	G	A	333	128.291	46.803	-10.306	1.00	55.94	A16S
ATOM	6954	N1	G	A	333	128.952	48.390	-8.787	1.00	55.94	A16S
ATOM	6955	C6	G	A	333	129.139	48.946	-7.526	1.00	55.94	A16S
ATOM	6956	O6	G	A	333	129.665	50.056	-7.407	1.00	55.94	A16S
ATOM	6957	C5	G	A	333	128.655	48.104	-6.516	1.00	55.94	A16S
ATOM	6958	N7	G	A	333	128.671	48.260	-5.140	1.00	55.94	A16S
ATOM	6959	C8	G	A	333	128.088	47.184	-4.686	1.00	55.94	A16S
ATOM	6960	C2*	G	A	333	127.932	43.886	-5.850	1.00	43.93	A16S
ATOM	6961	O2*	G	A	333	127.156	42.878	-6.455	1.00	43.93	A16S
ATOM	6962	C3*	G	A	333	128.478	43.537	-4.469	1.00	43.93	A16S
ATOM	6963	O3*	G	A	333	128.930	42.194	-4.350	1.00	43.93	A16S
ATOM	6964	P	C	A	334	130.471	41.858	-4.638	1.00	53.69	A16S
ATOM	6965	O1P	C	A	334	130.722	40.441	-4.269	1.00	65.78	A16S
ATOM	6966	O2P	C	A	334	131.323	42.920	-4.047	1.00	65.78	A16S
ATOM	6967	O5*	C	A	334	130.528	41.987	-6.220	1.00	53.69	A16S
ATOM	6968	C5*	C	A	334	129.663	41.182	-7.024	1.00	53.69	A16S
ATOM	6969	C4*	C	A	334	129.996	41.355	-8.474	1.00	53.69	A16S
ATOM	6970	O4*	C	A	334	129.492	42.627	-8.944	1.00	53.69	A16S
ATOM	6971	C1*	C	A	334	130.371	43.150	-9.925	1.00	53.69	A16S
ATOM	6972	N1	C	A	334	130.894	44.442	-9.444	1.00	65.78	A16S
ATOM	6973	C6	C	A	334	131.036	44.693	-8.108	1.00	65.78	A16S
ATOM	6974	C2	C	A	334	131.243	45.419	-10.383	1.00	65.78	A16S
ATOM	6975	O2	C	A	334	131.119	45.164	-11.593	1.00	65.78	A16S
ATOM	6976	N3	C	A	334	131.705	46.616	-9.953	1.00	65.78	A16S
ATOM	6977	C4	C	A	334	131.816	46.857	-8.650	1.00	65.78	A16S
ATOM	6978	N4	C	A	334	132.237	48.058	-8.277	1.00	65.78	A16S
ATOM	6979	C5	C	A	334	131.487	45.877	-7.673	1.00	65.78	A16S
ATOM	6980	C2*	C	A	334	131.485	42.126	-10.141	1.00	53.69	A16S
ATOM	6981	O2*	C	A	334	131.164	41.271	-11.229	1.00	53.69	A16S
ATOM	6982	C3*	C	A	334	131.475	41.398	-8.808	1.00	53.69	A16S
ATOM	6983	O3*	C	A	334	132.071	40.122	-8.881	1.00	53.69	A16S
ATOM	6984	P	C	A	335	133.635	39.974	-8.549	1.00	56.91	A16S
ATOM	6985	O1P	C	A	335	133.903	38.510	-8.503	1.00	54.73	A16S
ATOM	6986	O2P	C	A	335	133.971	40.824	-7.374	1.00	54.73	A16S
ATOM	6987	O5*	C	A	335	134.338	40.599	-9.833	1.00	56.91	A16S
ATOM	6988	C5*	C	A	335	134.014	40.099	-11.132	1.00	56.91	A16S
ATOM	6989	C4*	C	A	335	134.685	40.919	-12.196	1.00	56.91	A16S
ATOM	6990	O4*	C	A	335	134.022	42.194	-12.348	1.00	56.91	A16S
ATOM	6991	C1*	C	A	335	134.979	43.178	-12.678	1.00	56.91	A16S
ATOM	6992	N1	C	A	335	135.027	44.144	-11.577	1.00	54.73	A16S
ATOM	6993	C6	C	A	335	134.741	43.764	-10.296	1.00	54.73	A16S
ATOM	6994	C2	C	A	335	135.391	45.457	-11.856	1.00	54.73	A16S
ATOM	6995	O2	C	A	335	135.645	45.772	-13.031	1.00	54.73	A16S
ATOM	6996	N3	C	A	335	135.468	46.348	-10.844	1.00	54.73	A16S
ATOM	6997	C4	C	A	335	135.207	45.960	-9.599	1.00	54.73	A16S
ATOM	6998	N4	C	A	335	135.326	46.857	-8.633	1.00	54.73	A16S
ATOM	6999	C5	C	A	335	134.820	44.630	-9.289	1.00	54.73	A16S
ATOM	7000	C2*	C	A	335	136.336	42.485	-12.827	1.00	56.91	A16S

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ATOM	7001	O2*	C	A	335	136.586	42.145	-14.183	1.00	56.91	A16S
ATOM	7002	C3*	C	A	335	136.142	41.258	-11.953	1.00	56.91	A16S
ATOM	7003	O3*	C	A	335	136.993	40.205	-12.349	1.00	56.91	A16S
ATOM	7004	P	C	A	336	138.411	40.030	-11.630	1.00	66.44	A16S
ATOM	7005	O1P	C	A	336	138.888	38.674	-12.010	1.00	68.00	A16S
ATOM	7006	O2P	C	A	336	138.286	40.398	-10.193	1.00	68.00	A16S
ATOM	7007	O5*	C	A	336	139.330	41.134	-12.315	1.00	66.44	A16S
ATOM	7008	C5*	C	A	336	139.644	41.090	-13.719	1.00	66.44	A16S
ATOM	7009	C4*	C	A	336	140.491	42.287	-14.090	1.00	66.44	A16S
ATOM	7010	O4*	C	A	336	139.675	43.489	-14.056	1.00	66.44	A16S
ATOM	7011	C1*	C	A	336	140.437	44.579	-13.548	1.00	66.44	A16S
ATOM	7012	N1	C	A	336	139.834	45.039	-12.271	1.00	68.00	A16S
ATOM	7013	C6	C	A	336	139.075	44.200	-11.501	1.00	68.00	A16S
ATOM	7014	C2	C	A	336	140.069	46.354	-11.849	1.00	68.00	A16S
ATOM	7015	O2	C	A	336	140.730	47.108	-12.577	1.00	68.00	A16S
ATOM	7016	N3	C	A	336	139.564	46.772	-10.660	1.00	68.00	A16S
ATOM	7017	C4	C	A	336	138.838	45.938	-9.915	1.00	68.00	A16S
ATOM	7018	N4	C	A	336	138.370	46.386	-8.750	1.00	68.00	A16S
ATOM	7019	C5	C	A	336	138.563	44.605	-10.329	1.00	68.00	A16S
ATOM	7020	C2*	C	A	336	141.866	44.079	-13.342	1.00	66.44	A16S
ATOM	7021	O2*	C	A	336	142.644	44.350	-14.490	1.00	66.44	A16S
ATOM	7022	C3*	C	A	336	141.635	42.591	-13.133	1.00	66.44	A16S
ATOM	7023	O3*	C	A	336	142.799	41.831	-13.382	1.00	66.44	A16S
ATOM	7024	P	C	A	337	143.835	41.572	-12.182	1.00	61.46	A16S
ATOM	7025	O1P	C	A	337	144.967	40.792	-12.747	1.00	64.33	A16S
ATOM	7026	O2P	C	A	337	143.063	41.016	-11.029	1.00	64.33	A16S
ATOM	7027	O5*	C	A	337	144.371	43.037	-11.837	1.00	61.46	A16S
ATOM	7028	C5*	C	A	337	145.085	43.799	-12.830	1.00	61.46	A16S
ATOM	7029	C4*	C	A	337	145.667	45.066	-12.241	1.00	61.46	A16S
ATOM	7030	O4*	C	A	337	144.640	46.073	-12.049	1.00	61.46	A16S
ATOM	7031	C1*	C	A	337	144.960	46.870	-10.917	1.00	61.46	A16S
ATOM	7032	N1	C	A	337	143.883	46.707	-9.916	1.00	64.33	A16S
ATOM	7033	C6	C	A	337	143.042	45.630	-9.971	1.00	64.33	A16S
ATOM	7034	C2	C	A	337	143.738	47.663	-8.894	1.00	64.33	A16S
ATOM	7035	O2	C	A	337	144.489	48.648	-8.876	1.00	64.33	A16S
ATOM	7036	N3	C	A	337	142.775	47.484	-7.956	1.00	64.33	A16S
ATOM	7037	C4	C	A	337	141.969	46.417	-8.020	1.00	64.33	A16S
ATOM	7038	N4	C	A	337	141.035	46.269	-7.077	1.00	64.33	A16S
ATOM	7039	C5	C	A	337	142.083	45.449	-9.055	1.00	64.33	A16S
ATOM	7040	C2*	C	A	337	146.316	46.392	-10.390	1.00	61.46	A16S
ATOM	7041	O2*	C	A	337	147.350	47.184	-10.942	1.00	61.46	A16S
ATOM	7042	C3*	C	A	337	146.357	44.954	-10.896	1.00	61.46	A16S
ATOM	7043	O3*	C	A	337	147.682	44.461	-11.011	1.00	61.46	A16S
ATOM	7044	P	A	A	338	148.318	43.610	-9.800	1.00	73.74	A16S
ATOM	7045	O1P	A	A	338	149.590	43.031	-10.313	1.00	66.82	A16S
ATOM	7046	O2P	A	A	338	147.280	42.709	-9.225	1.00	66.82	A16S
ATOM	7047	O5*	A	A	338	148.669	44.715	-8.708	1.00	73.74	A16S
ATOM	7048	C5*	A	A	338	149.527	45.821	-9.038	1.00	73.74	A16S
ATOM	7049	C4*	A	A	338	149.482	46.869	-7.950	1.00	73.74	A16S
ATOM	7050	O4*	A	A	338	148.183	47.512	-7.933	1.00	73.74	A16S
ATOM	7051	C1*	A	A	338	147.839	47.859	-6.602	1.00	73.74	A16S
ATOM	7052	N9	A	A	338	146.592	47.179	-6.255	1.00	66.82	A16S
ATOM	7053	C4	A	A	338	145.801	47.459	-5.169	1.00	66.82	A16S
ATOM	7054	N3	A	A	338	146.024	48.381	-4.216	1.00	66.82	A16S
ATOM	7055	C2	A	A	338	145.032	48.385	-3.335	1.00	66.82	A16S
ATOM	7056	N1	A	A	338	143.927	47.627	-3.299	1.00	66.82	A16S
ATOM	7057	C6	A	A	338	143.738	46.708	-4.273	1.00	66.82	A16S
ATOM	7058	N6	A	A	338	142.639	45.954	-4.243	1.00	66.82	A16S
ATOM	7059	C5	A	A	338	144.716	46.604	-5.264	1.00	66.82	A16S
ATOM	7060	N7	A	A	338	144.827	45.787	-6.377	1.00	66.82	A16S
ATOM	7061	C8	A	A	338	145.956	46.163	-6.927	1.00	66.82	A16S
ATOM	7062	C2*	A	A	338	149.002	47.462	-5.698	1.00	73.74	A16S
ATOM	7063	O2*	A	A	338	149.816	48.597	-5.480	1.00	73.74	A16S
ATOM	7064	C3*	A	A	338	149.671	46.373	-6.528	1.00	73.74	A16S
ATOM	7065	O3*	A	A	338	151.035	46.187	-6.204	1.00	73.74	A16S
ATOM	7066	P	C	A	339	151.457	44.943	-5.282	1.00	78.40	A16S
ATOM	7067	O1P	C	A	339	152.941	44.905	-5.329	1.00	74.50	A16S
ATOM	7068	O2P	C	A	339	150.663	43.733	-5.669	1.00	74.50	A16S
ATOM	7069	O5*	C	A	339	151.026	45.391	-3.818	1.00	78.40	A16S
ATOM	7070	C5*	C	A	339	151.612	46.556	-3.225	1.00	78.40	A16S
ATOM	7071	C4*	C	A	339	150.795	47.023	-2.050	1.00	78.40	A16S
ATOM	7072	O4*	C	A	339	149.467	47.393	-2.492	1.00	78.40	A16S
ATOM	7073	C1*	C	A	339	148.537	47.140	-1.453	1.00	78.40	A16S
ATOM	7074	N1	C	A	339	147.494	46.227	-1.946	1.00	74.50	A16S
ATOM	7075	C6	C	A	339	147.691	45.452	-3.051	1.00	74.50	A16S
ATOM	7076	C2	C	A	339	146.281	46.168	-1.250	1.00	74.50	A16S
ATOM	7077	O2	C	A	339	146.128	46.887	-0.243	1.00	74.50	A16S

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ATOM	7078	N3	C	A	339	145.309	45.338	-1.687	1.00	74.50	A16S
ATOM	7079	C4	C	A	339	145.510	44.593	-2.772	1.00	74.50	A16S
ATOM	7080	N4	C	A	339	144.516	43.802	-3.177	1.00	74.50	A16S
ATOM	7081	C5	C	A	339	146.736	44.630	-3.495	1.00	74.50	A16S
ATOM	7082	C2*	C	A	339	149.302	46.556	-0.267	1.00	78.40	A16S
ATOM	7083	O2*	C	A	339	149.594	47.586	0.658	1.00	78.40	A16S
ATOM	7084	C3*	C	A	339	150.546	46.007	-0.949	1.00	78.40	A16S
ATOM	7085	O3*	C	A	339	151.639	45.905	-0.052	1.00	78.40	A16S
ATOM	7086	P	U	A	340	152.054	44.461	0.522	1.00	78.07	A16S
ATOM	7087	O1P	U	A	340	153.455	44.635	1.004	1.00	68.89	A16S
ATOM	7088	O2P	U	A	340	151.754	43.426	-0.508	1.00	68.89	A16S
ATOM	7089	O5*	U	A	340	151.072	44.231	1.762	1.00	78.07	A16S
ATOM	7090	C5*	U	A	340	151.110	45.121	2.892	1.00	78.07	A16S
ATOM	7091	C4*	U	A	340	149.812	45.073	3.667	1.00	78.07	A16S
ATOM	7092	O4*	U	A	340	148.698	45.469	2.823	1.00	78.07	A16S
ATOM	7093	C1*	U	A	340	147.517	44.802	3.246	1.00	78.07	A16S
ATOM	7094	N1	U	A	340	146.995	43.989	2.133	1.00	68.89	A16S
ATOM	7095	C6	U	A	340	147.656	43.912	0.926	1.00	68.89	A16S
ATOM	7096	C2	U	A	340	145.797	43.295	2.331	1.00	68.89	A16S
ATOM	7097	O2	U	A	340	145.174	43.311	3.384	1.00	68.89	A16S
ATOM	7098	N3	U	A	340	145.359	42.576	1.249	1.00	68.89	A16S
ATOM	7099	C4	U	A	340	145.971	42.464	0.019	1.00	68.89	A16S
ATOM	7100	O4	U	A	340	145.447	41.767	-0.853	1.00	68.89	A16S
ATOM	7101	C5	U	A	340	147.198	43.193	-0.107	1.00	68.89	A16S
ATOM	7102	C2*	U	A	340	147.889	43.948	4.454	1.00	78.07	A16S
ATOM	7103	O2*	U	A	340	147.622	44.682	5.636	1.00	78.07	A16S
ATOM	7104	C3*	U	A	340	149.378	43.732	4.223	1.00	78.07	A16S
ATOM	7105	O3*	U	A	340	150.050	43.390	5.418	1.00	78.07	A16S
ATOM	7106	P	C	A	341	150.528	41.873	5.640	1.00	98.96	A16S
ATOM	7107	O1P	C	A	341	151.500	41.902	6.771	1.00	68.79	A16S
ATOM	7108	O2P	C	A	341	150.937	41.316	4.311	1.00	68.79	A16S
ATOM	7109	O5*	C	A	341	149.218	41.105	6.124	1.00	98.96	A16S
ATOM	7110	C5*	C	A	341	148.650	41.376	7.417	1.00	98.96	A16S
ATOM	7111	C4*	C	A	341	147.275	40.764	7.531	1.00	98.96	A16S
ATOM	7112	O4*	C	A	341	146.420	41.291	6.486	1.00	98.96	A16S
ATOM	7113	C1*	C	A	341	145.499	40.296	6.073	1.00	98.96	A16S
ATOM	7114	N1	C	A	341	145.693	40.020	4.638	1.00	68.79	A16S
ATOM	7115	C6	C	A	341	146.830	40.416	3.983	1.00	68.79	A16S
ATOM	7116	C2	C	A	341	144.680	39.336	3.945	1.00	68.79	A16S
ATOM	7117	O2	C	A	341	143.662	38.984	4.562	1.00	68.79	A16S
ATOM	7118	N3	C	A	341	144.836	39.078	2.626	1.00	68.79	A16S
ATOM	7119	C4	C	A	341	145.946	39.475	1.995	1.00	68.79	A16S
ATOM	7120	N4	C	A	341	146.053	39.206	0.688	1.00	68.79	A16S
ATOM	7121	C5	C	A	341	146.998	40.168	2.676	1.00	68.79	A16S
ATOM	7122	C2*	C	A	341	145.741	39.058	6.929	1.00	98.96	A16S
ATOM	7123	O2*	C	A	341	144.836	39.095	8.012	1.00	98.96	A16S
ATOM	7124	C3*	C	A	341	147.189	39.260	7.355	1.00	98.96	A16S
ATOM	7125	O3*	C	A	341	147.483	38.572	8.558	1.00	98.96	A16S
ATOM	7126	P	C	A	342	148.064	37.077	8.487	1.00	99.27	A16S
ATOM	7127	O1P	C	A	342	148.654	36.780	9.820	1.00	65.59	A16S
ATOM	7128	O2P	C	A	342	148.900	36.961	7.262	1.00	65.59	A16S
ATOM	7129	O5*	C	A	342	146.781	36.164	8.259	1.00	99.27	A16S
ATOM	7130	C5*	C	A	342	145.903	35.850	9.342	1.00	99.27	A16S
ATOM	7131	C4*	C	A	342	144.782	34.970	8.861	1.00	99.27	A16S
ATOM	7132	O4*	C	A	342	144.039	35.672	7.828	1.00	99.27	A16S
ATOM	7133	C1*	C	A	342	143.539	34.743	6.879	1.00	99.27	A16S
ATOM	7134	N1	C	A	342	144.143	35.011	5.561	1.00	65.59	A16S
ATOM	7135	C6	C	A	342	145.298	35.738	5.433	1.00	65.59	A16S
ATOM	7136	C2	C	A	342	143.515	34.475	4.421	1.00	65.59	A16S
ATOM	7137	O2	C	A	342	142.467	33.825	4.562	1.00	65.59	A16S
ATOM	7138	N3	C	A	342	144.069	34.672	3.201	1.00	65.59	A16S
ATOM	7139	C4	C	A	342	145.206	35.361	3.089	1.00	65.59	A16S
ATOM	7140	N4	C	A	342	145.725	35.498	1.871	1.00	65.59	A16S
ATOM	7141	C5	C	A	342	145.863	35.933	4.228	1.00	65.59	A16S
ATOM	7142	C2*	C	A	342	143.946	33.354	7.351	1.00	99.27	A16S
ATOM	7143	O2*	C	A	342	142.887	32.796	8.105	1.00	99.27	A16S
ATOM	7144	C3*	C	A	342	145.183	33.673	8.178	1.00	99.27	A16S
ATOM	7145	O3*	C	A	342	145.543	32.624	9.064	1.00	99.27	A16S
ATOM	7146	P	U	A	343	146.614	31.520	8.579	1.00	95.68	A16S
ATOM	7147	O1P	U	A	343	147.868	32.211	8.174	1.00	94.65	A16S
ATOM	7148	O2P	U	A	343	146.663	30.455	9.615	1.00	94.65	A16S
ATOM	7149	O5*	U	A	343	145.971	30.901	7.260	1.00	95.68	A16S
ATOM	7150	C5*	U	A	343	144.753	30.144	7.334	1.00	95.68	A16S
ATOM	7151	C4*	U	A	343	144.410	29.562	5.988	1.00	95.68	A16S
ATOM	7152	O4*	U	A	343	144.166	30.633	5.037	1.00	95.68	A16S
ATOM	7153	C1*	U	A	343	144.564	30.219	3.740	1.00	95.68	A16S
ATOM	7154	N1	U	A	343	145.623	31.118	3.247	1.00	94.65	A16S

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ATOM	7155	C6	U	A	343	146.387	31.873	4.113	1.00	94.65	A16S
ATOM	7156	C2	U	A	343	145.850	31.166	1.872	1.00	94.65	A16S
ATOM	7157	O2	U	A	343	145.188	30.535	1.062	1.00	94.65	A16S
ATOM	7158	N3	U	A	343	146.885	31.981	1.484	1.00	94.65	A16S
ATOM	7159	C4	U	A	343	147.698	32.742	2.301	1.00	94.65	A16S
ATOM	7160	O4	U	A	343	148.633	33.374	1.806	1.00	94.65	A16S
ATOM	7161	C5	U	A	343	147.388	32.660	3.697	1.00	94.65	A16S
ATOM	7162	C2*	U	A	343	145.060	28.777	3.857	1.00	95.68	A16S
ATOM	7163	O2*	U	A	343	143.991	27.899	3.567	1.00	95.68	A16S
ATOM	7164	C3*	U	A	343	145.478	28.711	5.322	1.00	95.68	A16S
ATOM	7165	O3*	U	A	343	145.521	27.373	5.817	1.00	95.68	A16S
ATOM	7166	P	A	A	344	146.946	26.640	6.028	1.00	111.82	A16S
ATOM	7167	O1P	A	A	344	147.961	27.250	5.126	1.00	105.50	A16S
ATOM	7168	O2P	A	A	344	147.195	26.615	7.496	1.00	105.50	A16S
ATOM	7169	O5*	A	A	344	146.667	25.150	5.525	1.00	111.82	A16S
ATOM	7170	C5*	A	A	344	147.400	24.557	4.418	1.00	111.82	A16S
ATOM	7171	C4*	A	A	344	146.534	23.525	3.734	1.00	111.82	A16S
ATOM	7172	O4*	A	A	344	145.833	22.820	4.785	1.00	111.82	A16S
ATOM	7173	C1*	A	A	344	144.456	22.714	4.482	1.00	111.82	A16S
ATOM	7174	N9	A	A	344	143.724	23.411	5.536	1.00	105.50	A16S
ATOM	7175	C4	A	A	344	142.940	22.820	6.497	1.00	105.50	A16S
ATOM	7176	N3	A	A	344	142.663	21.510	6.631	1.00	105.50	A16S
ATOM	7177	C2	A	A	344	141.886	21.300	7.692	1.00	105.50	A16S
ATOM	7178	N1	A	A	344	141.389	22.184	8.570	1.00	105.50	A16S
ATOM	7179	C6	A	A	344	141.684	23.495	8.408	1.00	105.50	A16S
ATOM	7180	N6	A	A	344	141.184	24.377	9.286	1.00	105.50	A16S
ATOM	7181	C5	A	A	344	142.505	23.848	7.314	1.00	105.50	A16S
ATOM	7182	N7	A	A	344	142.988	25.069	6.861	1.00	105.50	A16S
ATOM	7183	C8	A	A	344	143.696	24.756	5.804	1.00	105.50	A16S
ATOM	7184	C2*	A	A	344	144.224	23.225	3.061	1.00	111.82	A16S
ATOM	7185	O2*	A	A	344	144.062	22.126	2.194	1.00	111.82	A16S
ATOM	7186	C3*	A	A	344	145.448	24.116	2.845	1.00	111.82	A16S
ATOM	7187	O3*	A	A	344	145.912	24.291	1.489	1.00	111.82	A16S
ATOM	7188	P	C	A	345	146.362	23.016	0.591	1.00	107.51	A16S
ATOM	7189	O1P	C	A	345	147.495	22.355	1.303	1.00	105.88	A16S
ATOM	7190	O2P	C	A	345	145.170	22.213	0.193	1.00	105.88	A16S
ATOM	7191	O5*	C	A	345	146.939	23.668	-0.749	1.00	107.51	A16S
ATOM	7192	C5*	C	A	345	146.078	23.899	-1.881	1.00	107.51	A16S
ATOM	7193	C4*	C	A	345	146.456	25.177	-2.586	1.00	107.51	A16S
ATOM	7194	O4*	C	A	345	146.413	26.279	-1.642	1.00	107.51	A16S
ATOM	7195	C1*	C	A	345	147.632	26.991	-1.691	1.00	107.51	A16S
ATOM	7196	N1	C	A	345	147.949	27.514	-0.346	1.00	105.88	A16S
ATOM	7197	C6	C	A	345	147.871	26.715	0.762	1.00	105.88	A16S
ATOM	7198	C2	C	A	345	148.334	28.868	-0.219	1.00	105.88	A16S
ATOM	7199	O2	C	A	345	148.415	29.581	-1.240	1.00	105.88	A16S
ATOM	7200	N3	C	A	345	148.611	29.360	1.010	1.00	105.88	A16S
ATOM	7201	C4	C	A	345	148.529	28.567	2.081	1.00	105.88	A16S
ATOM	7202	N4	C	A	345	148.819	29.098	3.268	1.00	105.88	A16S
ATOM	7203	C5	C	A	345	148.149	27.195	1.982	1.00	105.88	A16S
ATOM	7204	C2*	C	A	345	148.670	26.029	-2.255	1.00	107.51	A16S
ATOM	7205	O2*	C	A	345	149.701	26.774	-2.871	1.00	107.51	A16S
ATOM	7206	C3*	C	A	345	147.833	25.217	-3.240	1.00	107.51	A16S
ATOM	7207	O3*	C	A	345	147.729	25.936	-4.465	1.00	107.51	A16S
ATOM	7208	P	G	A	346	147.326	25.161	-5.817	1.00	115.92	A16S
ATOM	7209	O1P	G	A	346	147.763	25.990	-6.977	1.00	109.47	A16S
ATOM	7210	O2P	G	A	346	147.792	23.752	-5.706	1.00	109.47	A16S
ATOM	7211	O5*	G	A	346	145.732	25.160	-5.792	1.00	115.92	A16S
ATOM	7212	C5*	G	A	346	144.982	26.393	-5.863	1.00	115.92	A16S
ATOM	7213	C4*	G	A	346	143.506	26.097	-5.786	1.00	115.92	A16S
ATOM	7214	O4*	G	A	346	143.261	25.265	-4.634	1.00	115.92	A16S
ATOM	7215	C1*	G	A	346	141.979	25.538	-4.125	1.00	115.92	A16S
ATOM	7216	N9	G	A	346	142.076	25.699	-2.680	1.00	109.47	A16S
ATOM	7217	C4	G	A	346	142.804	26.638	-1.985	1.00	109.47	A16S
ATOM	7218	N3	G	A	346	143.565	27.615	-2.522	1.00	109.47	A16S
ATOM	7219	C2	G	A	346	144.137	28.364	-1.588	1.00	109.47	A16S
ATOM	7220	N2	G	A	346	144.928	29.394	-1.941	1.00	109.47	A16S
ATOM	7221	N1	G	A	346	143.976	28.160	-0.237	1.00	109.47	A16S
ATOM	7222	C6	G	A	346	143.199	27.157	0.332	1.00	109.47	A16S
ATOM	7223	O6	G	A	346	143.119	27.057	1.558	1.00	109.47	A16S
ATOM	7224	C5	G	A	346	142.581	26.356	-0.653	1.00	109.47	A16S
ATOM	7225	N7	G	A	346	141.733	25.269	-0.514	1.00	109.47	A16S
ATOM	7226	C8	G	A	346	141.458	24.915	-1.738	1.00	109.47	A16S
ATOM	7227	C2*	G	A	346	141.365	26.692	-4.919	1.00	115.92	A16S
ATOM	7228	O2*	G	A	346	140.429	26.150	-5.824	1.00	115.92	A16S
ATOM	7229	C3*	G	A	346	142.579	27.292	-5.626	1.00	115.92	A16S
ATOM	7230	O3*	G	A	346	142.202	27.770	-6.917	1.00	115.92	A16S
ATOM	7231	P	G	A	347	142.104	29.352	-7.206	1.00	112.96	A16S

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ATOM	7232	O1P	G	A	347	143.466	29.920	-7.016	1.00	80.18	A16S
ATOM	7233	O2P	G	A	347	141.405	29.530	-8.513	1.00	80.18	A16S
ATOM	7234	O5*	G	A	347	141.154	29.924	-6.062	1.00	112.96	A16S
ATOM	7235	C5*	G	A	347	139.833	29.401	-5.880	1.00	112.96	A16S
ATOM	7236	C4*	G	A	347	139.340	29.684	-4.482	1.00	112.96	A16S
ATOM	7237	O4*	G	A	347	140.401	29.389	-3.529	1.00	112.96	A16S
ATOM	7238	C1*	G	A	347	140.287	30.245	-2.402	1.00	112.96	A16S
ATOM	7239	N9	G	A	347	141.491	31.067	-2.289	1.00	80.18	A16S
ATOM	7240	C4	G	A	347	141.977	31.634	-1.132	1.00	80.18	A16S
ATOM	7241	N3	G	A	347	141.446	31.493	0.102	1.00	80.18	A16S
ATOM	7242	C2	G	A	347	142.118	32.180	1.016	1.00	80.18	A16S
ATOM	7243	N2	G	A	347	141.718	32.153	2.301	1.00	80.18	A16S
ATOM	7244	N1	G	A	347	143.228	32.946	0.739	1.00	80.18	A16S
ATOM	7245	C6	G	A	347	143.793	33.111	-0.523	1.00	80.18	A16S
ATOM	7246	O6	G	A	347	144.789	33.837	-0.662	1.00	80.18	A16S
ATOM	7247	C5	G	A	347	143.079	32.372	-1.518	1.00	80.18	A16S
ATOM	7248	N7	G	A	347	143.298	32.253	-2.885	1.00	80.18	A16S
ATOM	7249	C8	G	A	347	142.339	31.466	-3.299	1.00	80.18	A16S
ATOM	7250	C2*	G	A	347	139.064	31.128	-2.630	1.00	112.96	A16S
ATOM	7251	O2*	G	A	347	137.940	30.538	-2.009	1.00	112.96	A16S
ATOM	7252	C3*	G	A	347	138.957	31.117	-4.151	1.00	112.96	A16S
ATOM	7253	O3*	G	A	347	137.649	31.471	-4.595	1.00	112.96	A16S
ATOM	7254	P	G	A	348	137.123	32.983	-4.384	1.00	75.92	A16S
ATOM	7255	O1P	G	A	348	138.279	33.908	-4.596	1.00	77.52	A16S
ATOM	7256	O2P	G	A	348	135.858	33.198	-5.142	1.00	77.52	A16S
ATOM	7257	O5*	G	A	348	136.752	33.013	-2.840	1.00	75.92	A16S
ATOM	7258	C5*	G	A	348	136.718	34.239	-2.129	1.00	75.92	A16S
ATOM	7259	C4*	G	A	348	137.017	33.996	-0.679	1.00	75.92	A16S
ATOM	7260	O4*	G	A	348	138.360	33.474	-0.530	1.00	75.92	A16S
ATOM	7261	C1*	G	A	348	138.978	34.053	0.608	1.00	75.92	A16S
ATOM	7262	N9	G	A	348	140.123	34.838	0.157	1.00	77.52	A16S
ATOM	7263	C4	G	A	348	140.877	35.684	0.928	1.00	77.52	A16S
ATOM	7264	N3	G	A	348	140.695	35.925	2.242	1.00	77.52	A16S
ATOM	7265	C2	G	A	348	141.584	36.780	2.715	1.00	77.52	A16S
ATOM	7266	N2	G	A	348	141.552	37.123	4.018	1.00	77.52	A16S
ATOM	7267	N1	G	A	348	142.569	37.360	1.947	1.00	77.52	A16S
ATOM	7268	C6	G	A	348	142.764	37.131	0.585	1.00	77.52	A16S
ATOM	7269	O6	G	A	348	143.669	37.716	-0.020	1.00	77.52	A16S
ATOM	7270	C5	G	A	348	141.827	36.209	0.076	1.00	77.52	A16S
ATOM	7271	N7	G	A	348	141.679	35.701	-1.204	1.00	77.52	A16S
ATOM	7272	C8	G	A	348	140.658	34.891	-1.111	1.00	77.52	A16S
ATOM	7273	C2*	G	A	348	137.939	34.935	1.292	1.00	75.92	A16S
ATOM	7274	O2*	G	A	348	137.293	34.199	2.306	1.00	75.92	A16S
ATOM	7275	C3*	G	A	348	137.033	35.272	0.122	1.00	75.92	A16S
ATOM	7276	O3*	G	A	348	135.720	35.672	0.445	1.00	75.92	A16S
ATOM	7277	P	A	A	349	135.289	37.194	0.171	1.00	84.22	A16S
ATOM	7278	O1P	A	A	349	133.825	37.294	0.407	1.00	69.70	A16S
ATOM	7279	O2P	A	A	349	135.845	37.609	-1.149	1.00	69.70	A16S
ATOM	7280	O5*	A	A	349	136.059	37.969	1.332	1.00	84.22	A16S
ATOM	7281	C5*	A	A	349	135.919	37.537	2.697	1.00	84.22	A16S
ATOM	7282	C4*	A	A	349	136.709	38.427	3.612	1.00	84.22	A16S
ATOM	7283	O4*	A	A	349	138.121	38.115	3.531	1.00	84.22	A16S
ATOM	7284	C1*	A	A	349	138.879	39.304	3.658	1.00	84.22	A16S
ATOM	7285	N9	A	A	349	139.625	39.499	2.416	1.00	69.70	A16S
ATOM	7286	C4	A	A	349	140.798	40.199	2.282	1.00	69.70	A16S
ATOM	7287	N3	A	A	349	141.474	40.842	3.247	1.00	69.70	A16S
ATOM	7288	C2	A	A	349	142.575	41.406	2.753	1.00	69.70	A16S
ATOM	7289	N1	A	A	349	143.043	41.395	1.501	1.00	69.70	A16S
ATOM	7290	C6	A	A	349	142.340	40.736	0.553	1.00	69.70	A16S
ATOM	7291	N6	A	A	349	142.815	40.717	-0.694	1.00	69.70	A16S
ATOM	7292	C5	A	A	349	141.146	40.103	0.947	1.00	69.70	A16S
ATOM	7293	N7	A	A	349	140.203	39.366	0.244	1.00	69.70	A16S
ATOM	7294	C8	A	A	349	139.321	39.033	1.156	1.00	69.70	A16S
ATOM	7295	C2*	A	A	349	137.902	40.448	3.920	1.00	84.22	A16S
ATOM	7296	O2*	A	A	349	137.797	40.644	5.314	1.00	84.22	A16S
ATOM	7297	C3*	A	A	349	136.626	39.902	3.289	1.00	84.22	A16S
ATOM	7298	O3*	A	A	349	135.423	40.477	3.776	1.00	84.22	A16S
ATOM	7299	P	G	A	350	134.938	41.906	3.211	1.00	71.52	A16S
ATOM	7300	O1P	G	A	350	135.426	42.086	1.806	1.00	55.26	A16S
ATOM	7301	O2P	G	A	350	133.481	42.059	3.505	1.00	55.26	A16S
ATOM	7302	O5*	G	A	350	135.747	42.908	4.141	1.00	71.52	A16S
ATOM	7303	C5*	G	A	350	136.108	44.197	3.683	1.00	71.52	A16S
ATOM	7304	C4*	G	A	350	137.352	44.653	4.383	1.00	71.52	A16S
ATOM	7305	O4*	G	A	350	138.435	43.742	4.093	1.00	71.52	A16S
ATOM	7306	C1*	G	A	350	139.608	44.472	3.786	1.00	71.52	A16S
ATOM	7307	N9	G	A	350	139.915	44.197	2.384	1.00	55.26	A16S
ATOM	7308	C4	G	A	350	141.065	44.500	1.677	1.00	55.26	A16S

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ATOM	7309	N3	G	A	350	142.142	45.165	2.140	1.00	55.26	A16S
ATOM	7310	C2	G	A	350	143.086	45.286	1.208	1.00	55.26	A16S
ATOM	7311	N2	G	A	350	144.213	45.941	1.476	1.00	55.26	A16S
ATOM	7312	N1	G	A	350	142.992	44.781	-0.058	1.00	55.26	A16S
ATOM	7313	C6	G	A	350	141.900	44.090	-0.558	1.00	55.26	A16S
ATOM	7314	O6	G	A	350	141.916	43.665	-1.724	1.00	55.26	A16S
ATOM	7315	C5	G	A	350	140.867	43.968	0.417	1.00	55.26	A16S
ATOM	7316	N7	G	A	350	139.618	43.370	0.325	1.00	55.26	A16S
ATOM	7317	C8	G	A	350	139.090	43.536	1.507	1.00	55.26	A16S
ATOM	7318	C2*	G	A	350	139.315	45.940	4.102	1.00	71.52	A16S
ATOM	7319	O2*	G	A	350	139.652	46.193	5.451	1.00	71.52	A16S
ATOM	7320	C3*	G	A	350	137.810	46.001	3.888	1.00	71.52	A16S
ATOM	7321	O3*	G	A	350	137.147	47.000	4.645	1.00	71.52	A16S
ATOM	7322	P	G	A	351	135.799	47.666	4.070	1.00	70.00	A16S
ATOM	7323	O1P	G	A	351	134.809	47.711	5.186	1.00	55.50	A16S
ATOM	7324	O2P	G	A	351	135.429	47.022	2.772	1.00	55.50	A16S
ATOM	7325	O5*	G	A	351	136.230	49.160	3.762	1.00	70.00	A16S
ATOM	7326	C5*	G	A	351	136.841	49.953	4.787	1.00	70.00	A16S
ATOM	7327	C4*	G	A	351	137.898	50.821	4.186	1.00	70.00	A16S
ATOM	7328	O4*	G	A	351	138.887	49.970	3.599	1.00	70.00	A16S
ATOM	7329	C1*	G	A	351	139.345	50.548	2.410	1.00	70.00	A16S
ATOM	7330	N9	G	A	351	139.315	49.519	1.384	1.00	55.50	A16S
ATOM	7331	C4	G	A	351	140.351	49.191	0.551	1.00	55.50	A16S
ATOM	7332	N3	G	A	351	141.552	49.791	0.521	1.00	55.50	A16S
ATOM	7333	C2	G	A	351	142.340	49.259	-0.382	1.00	55.50	A16S
ATOM	7334	N2	G	A	351	143.571	49.756	-0.561	1.00	55.50	A16S
ATOM	7335	N1	G	A	351	141.980	48.206	-1.182	1.00	55.50	A16S
ATOM	7336	C6	G	A	351	140.748	47.571	-1.160	1.00	55.50	A16S
ATOM	7337	O6	G	A	351	140.525	46.628	-1.922	1.00	55.50	A16S
ATOM	7338	C5	G	A	351	139.892	48.142	-0.208	1.00	55.50	A16S
ATOM	7339	N7	G	A	351	138.586	47.820	0.132	1.00	55.50	A16S
ATOM	7340	C8	G	A	351	138.282	48.669	1.077	1.00	55.50	A16S
ATOM	7341	C2*	G	A	351	138.575	51.848	2.142	1.00	70.00	A16S
ATOM	7342	O2*	G	A	351	139.371	52.975	2.470	1.00	70.00	A16S
ATOM	7343	C3*	G	A	351	137.382	51.720	3.074	1.00	70.00	A16S
ATOM	7344	O3*	G	A	351	137.070	53.036	3.568	1.00	70.00	A16S
ATOM	7345	P	C	A	352	137.681	53.560	4.983	1.00	49.27	A16S
ATOM	7346	O1P	C	A	352	136.552	53.740	5.951	1.00	62.84	A16S
ATOM	7347	O2P	C	A	352	138.899	52.793	5.401	1.00	62.84	A16S
ATOM	7348	O5*	C	A	352	138.228	55.000	4.621	1.00	49.27	A16S
ATOM	7349	C5*	C	A	352	139.427	55.482	5.212	1.00	49.27	A16S
ATOM	7350	C4*	C	A	352	139.095	56.488	6.273	1.00	49.27	A16S
ATOM	7351	O4*	C	A	352	138.557	55.828	7.452	1.00	49.27	A16S
ATOM	7352	C1*	C	A	352	139.009	56.502	8.614	1.00	49.27	A16S
ATOM	7353	N1	C	A	352	139.845	55.582	9.389	1.00	62.84	A16S
ATOM	7354	C6	C	A	352	140.383	54.469	8.810	1.00	62.84	A16S
ATOM	7355	C2	C	A	352	140.115	55.884	10.725	1.00	62.84	A16S
ATOM	7356	O2	C	A	352	139.593	56.885	11.233	1.00	62.84	A16S
ATOM	7357	N3	C	A	352	140.942	55.083	11.427	1.00	62.84	A16S
ATOM	7358	C4	C	A	352	141.492	54.019	10.842	1.00	62.84	A16S
ATOM	7359	N4	C	A	352	142.334	53.275	11.560	1.00	62.84	A16S
ATOM	7360	C5	C	A	352	141.210	53.673	9.489	1.00	62.84	A16S
ATOM	7361	C2*	C	A	352	139.840	57.707	8.162	1.00	49.27	A16S
ATOM	7362	O2*	C	A	352	139.012	58.845	8.140	1.00	49.27	A16S
ATOM	7363	C3*	C	A	352	140.288	57.268	6.773	1.00	49.27	A16S
ATOM	7364	O3*	C	A	352	140.519	58.340	5.882	1.00	49.27	A16S
ATOM	7365	P	A	A	353	141.926	59.111	5.896	1.00	43.66	A16S
ATOM	7366	O1P	A	A	353	142.610	58.888	7.197	1.00	45.78	A16S
ATOM	7367	O2P	A	A	353	142.642	58.771	4.618	1.00	45.78	A16S
ATOM	7368	O5*	A	A	353	141.461	60.637	5.925	1.00	43.66	A16S
ATOM	7369	C5*	A	A	353	141.223	61.361	4.723	1.00	43.66	A16S
ATOM	7370	C4*	A	A	353	139.834	61.950	4.705	1.00	43.66	A16S
ATOM	7371	O4*	A	A	353	139.872	62.768	3.519	1.00	43.66	A16S
ATOM	7372	C1*	A	A	353	138.971	62.268	2.564	1.00	43.66	A16S
ATOM	7373	N9	A	A	353	139.716	61.459	1.602	1.00	45.78	A16S
ATOM	7374	C4	A	A	353	139.285	61.168	0.334	1.00	45.78	A16S
ATOM	7375	N3	A	A	353	138.143	61.579	-0.248	1.00	45.78	A16S
ATOM	7376	C2	A	A	353	138.060	61.115	-1.487	1.00	45.78	A16S
ATOM	7377	N1	A	A	353	138.921	60.341	-2.161	1.00	45.78	A16S
ATOM	7378	C6	A	A	353	140.058	59.941	-1.543	1.00	45.78	A16S
ATOM	7379	N6	A	A	353	140.910	59.162	-2.212	1.00	45.78	A16S
ATOM	7380	C5	A	A	353	140.268	60.372	-0.226	1.00	45.78	A16S
ATOM	7381	N7	A	A	353	141.308	60.169	0.671	1.00	45.78	A16S
ATOM	7382	C8	A	A	353	140.935	60.834	1.737	1.00	45.78	A16S
ATOM	7383	C2*	A	A	353	137.913	61.463	3.310	1.00	43.66	A16S
ATOM	7384	O2*	A	A	353	136.837	62.309	3.646	1.00	43.66	A16S
ATOM	7385	C3*	A	A	353	138.697	60.935	4.511	1.00	43.66	A16S

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ATOM	7386	O3*	A	A 353	137.834	60.856	5.670	1.00	43.66	A16S
ATOM	7387	P	G	A 354	136.528	59.868	5.679	1.00	46.25	A16S
ATOM	7388	O1P	G	A 354	136.943	58.465	5.974	1.00	55.75	A16S
ATOM	7389	O2P	G	A 354	135.673	60.123	4.476	1.00	55.75	A16S
ATOM	7390	O5*	G	A 354	135.764	60.331	7.007	1.00	46.25	A16S
ATOM	7391	C5*	G	A 354	135.137	61.623	7.097	1.00	46.25	A16S
ATOM	7392	C4*	G	A 354	134.192	61.691	8.285	1.00	46.25	A16S
ATOM	7393	O4*	G	A 354	133.350	60.504	8.338	1.00	46.25	A16S
ATOM	7394	C1*	G	A 354	133.090	60.173	9.690	1.00	46.25	A16S
ATOM	7395	N9	G	A 354	133.609	58.828	9.949	1.00	55.75	A16S
ATOM	7396	C4	G	A 354	133.671	58.176	11.177	1.00	55.75	A16S
ATOM	7397	N3	G	A 354	133.220	58.650	12.363	1.00	55.75	A16S
ATOM	7398	C2	G	A 354	133.430	57.796	13.352	1.00	55.75	A16S
ATOM	7399	N2	G	A 354	133.019	58.087	14.593	1.00	55.75	A16S
ATOM	7400	N1	G	A 354	134.049	56.594	13.199	1.00	55.75	A16S
ATOM	7401	C6	G	A 354	134.522	56.086	12.002	1.00	55.75	A16S
ATOM	7402	O6	G	A 354	135.065	54.987	11.989	1.00	55.75	A16S
ATOM	7403	C5	G	A 354	134.287	56.975	10.920	1.00	55.75	A16S
ATOM	7404	N7	G	A 354	134.583	56.851	9.567	1.00	55.75	A16S
ATOM	7405	C8	G	A 354	134.160	57.966	9.033	1.00	55.75	A16S
ATOM	7406	C2*	G	A 354	133.742	61.248	10.572	1.00	46.25	A16S
ATOM	7407	O2*	G	A 354	132.785	62.228	10.916	1.00	46.25	A16S
ATOM	7408	C3*	G	A 354	134.834	61.795	9.661	1.00	46.25	A16S
ATOM	7409	O3*	G	A 354	135.115	63.167	9.953	1.00	46.25	A16S
ATOM	7410	P	C	A 355	136.138	63.561	11.141	1.00	44.88	A16S
ATOM	7411	O1P	C	A 355	136.018	65.027	11.305	1.00	59.87	A16S
ATOM	7412	O2P	C	A 355	137.480	62.969	10.903	1.00	59.87	A16S
ATOM	7413	O5*	C	A 355	135.506	62.885	12.438	1.00	44.88	A16S
ATOM	7414	C5*	C	A 355	134.405	63.504	13.141	1.00	44.88	A16S
ATOM	7415	C4*	C	A 355	134.357	63.010	14.564	1.00	44.88	A16S
ATOM	7416	O4*	C	A 355	133.933	61.625	14.583	1.00	44.88	A16S
ATOM	7417	C1*	C	A 355	134.668	60.913	15.564	1.00	44.88	A16S
ATOM	7418	N1	C	A 355	135.432	59.840	14.892	1.00	59.87	A16S
ATOM	7419	C6	C	A 355	135.690	59.892	13.551	1.00	59.87	A16S
ATOM	7420	C2	C	A 355	135.884	58.759	15.650	1.00	59.87	A16S
ATOM	7421	O2	C	A 355	135.672	58.748	16.867	1.00	59.87	A16S
ATOM	7422	N3	C	A 355	136.546	57.757	15.039	1.00	59.87	A16S
ATOM	7423	C4	C	A 355	136.771	57.810	13.729	1.00	59.87	A16S
ATOM	7424	N4	C	A 355	137.406	56.790	13.168	1.00	59.87	A16S
ATOM	7425	C5	C	A 355	136.349	58.908	12.937	1.00	59.87	A16S
ATOM	7426	C2*	C	A 355	135.567	61.913	16.290	1.00	44.88	A16S
ATOM	7427	O2*	C	A 355	134.932	62.377	17.462	1.00	44.88	A16S
ATOM	7428	C3*	C	A 355	135.706	63.009	15.251	1.00	44.88	A16S
ATOM	7429	O3*	C	A 355	135.994	64.245	15.850	1.00	44.88	A16S
ATOM	7430	P	A	A 356	137.520	64.697	15.993	1.00	55.68	A16S
ATOM	7431	O1P	A	A 356	137.532	65.966	16.774	1.00	57.12	A16S
ATOM	7432	O2P	A	A 356	138.102	64.662	14.619	1.00	57.12	A16S
ATOM	7433	O5*	A	A 356	138.211	63.529	16.838	1.00	55.68	A16S
ATOM	7434	C5*	A	A 356	138.025	63.439	18.260	1.00	55.68	A16S
ATOM	7435	C4*	A	A 356	138.668	62.178	18.835	1.00	55.68	A16S
ATOM	7436	O4*	A	A 356	138.009	60.973	18.352	1.00	55.68	A16S
ATOM	7437	C1*	A	A 356	138.883	59.867	18.516	1.00	55.68	A16S
ATOM	7438	N9	A	A 356	139.065	59.180	17.236	1.00	57.12	A16S
ATOM	7439	C4	A	A 356	139.503	57.887	17.096	1.00	57.12	A16S
ATOM	7440	N3	A	A 356	139.781	57.012	18.075	1.00	57.12	A16S
ATOM	7441	C2	A	A 356	140.213	55.866	17.569	1.00	57.12	A16S
ATOM	7442	N1	A	A 356	140.395	55.521	16.292	1.00	57.12	A16S
ATOM	7443	C6	A	A 356	140.117	56.427	15.332	1.00	57.12	A16S
ATOM	7444	N6	A	A 356	140.332	56.093	14.057	1.00	57.12	A16S
ATOM	7445	C5	A	A 356	139.629	57.676	15.738	1.00	57.12	A16S
ATOM	7446	N7	A	A 356	139.237	58.800	15.029	1.00	57.12	A16S
ATOM	7447	C8	A	A 356	138.904	59.658	15.961	1.00	57.12	A16S
ATOM	7448	C2*	A	A 356	140.216	60.410	19.032	1.00	55.68	A16S
ATOM	7449	O2*	A	A 356	140.243	60.306	20.440	1.00	55.68	A16S
ATOM	7450	C3*	A	A 356	140.149	61.876	18.635	1.00	55.68	A16S
ATOM	7451	O3*	A	A 356	140.996	62.587	19.521	1.00	55.68	A16S
ATOM	7452	P	G	A 357	142.569	62.692	19.199	1.00	53.93	A16S
ATOM	7453	O1P	G	A 357	143.238	63.224	20.419	1.00	72.22	A16S
ATOM	7454	O2P	G	A 357	142.755	63.387	17.898	1.00	72.22	A16S
ATOM	7455	O5*	G	A 357	143.027	61.182	18.974	1.00	53.93	A16S
ATOM	7456	C5*	G	A 357	143.274	60.308	20.095	1.00	53.93	A16S
ATOM	7457	C4*	G	A 357	143.781	58.961	19.624	1.00	53.93	A16S
ATOM	7458	O4*	G	A 357	142.789	58.325	18.781	1.00	53.93	A16S
ATOM	7459	C1*	G	A 357	143.432	57.570	17.776	1.00	53.93	A16S
ATOM	7460	N9	G	A 357	143.060	58.117	16.479	1.00	72.22	A16S
ATOM	7461	C4	G	A 357	143.307	57.544	15.263	1.00	72.22	A16S
ATOM	7462	N3	G	A 357	143.939	56.376	15.058	1.00	72.22	A16S

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ATOM	7463	C2	G	A	357	144.029	56.086	13.778	1.00	72.22	A16S
ATOM	7464	N2	G	A	357	144.629	54.956	13.396	1.00	72.22	A16S
ATOM	7465	N1	G	A	357	143.538	56.882	12.777	1.00	72.22	A16S
ATOM	7466	C6	G	A	357	142.877	58.089	12.969	1.00	72.22	A16S
ATOM	7467	O6	G	A	357	142.455	58.727	11.997	1.00	72.22	A16S
ATOM	7468	C5	G	A	357	142.780	58.411	14.337	1.00	72.22	A16S
ATOM	7469	N7	G	A	357	142.215	59.513	14.960	1.00	72.22	A16S
ATOM	7470	C8	G	A	357	142.406	59.296	16.230	1.00	72.22	A16S
ATOM	7471	C2*	G	A	357	144.933	57.665	18.014	1.00	53.93	A16S
ATOM	7472	O2*	G	A	357	145.294	56.558	18.799	1.00	53.93	A16S
ATOM	7473	C3*	G	A	357	145.045	58.969	18.787	1.00	53.93	A16S
ATOM	7474	O3*	G	A	357	146.188	58.974	19.623	1.00	53.93	A16S
ATOM	7475	P	U	A	358	147.631	59.286	18.992	1.00	63.18	A16S
ATOM	7476	O1P	U	A	358	148.588	59.365	20.126	1.00	65.14	A16S
ATOM	7477	O2P	U	A	358	147.511	60.432	18.048	1.00	65.14	A16S
ATOM	7478	O5*	U	A	358	147.963	57.989	18.127	1.00	63.18	A16S
ATOM	7479	C5*	U	A	358	148.129	56.700	18.751	1.00	63.18	A16S
ATOM	7480	C4*	U	A	358	148.602	55.682	17.738	1.00	63.18	A16S
ATOM	7481	O4*	U	A	358	147.559	55.406	16.767	1.00	63.18	A16S
ATOM	7482	C1*	U	A	358	148.149	55.159	15.499	1.00	63.18	A16S
ATOM	7483	N1	U	A	358	147.584	56.092	14.509	1.00	65.14	A16S
ATOM	7484	C6	U	A	358	147.014	57.294	14.878	1.00	65.14	A16S
ATOM	7485	C2	U	A	358	147.637	55.712	13.173	1.00	65.14	A16S
ATOM	7486	O2	U	A	358	148.145	54.665	12.796	1.00	65.14	A16S
ATOM	7487	N3	U	A	358	147.070	56.601	12.292	1.00	65.14	A16S
ATOM	7488	C4	U	A	358	146.472	57.806	12.593	1.00	65.14	A16S
ATOM	7489	O4	U	A	358	145.939	58.457	11.688	1.00	65.14	A16S
ATOM	7490	C5	U	A	358	146.472	58.140	13.993	1.00	65.14	A16S
ATOM	7491	C2*	U	A	358	149.667	55.268	15.651	1.00	63.18	A16S
ATOM	7492	O2*	U	A	358	150.224	53.981	15.835	1.00	63.18	A16S
ATOM	7493	C3*	U	A	358	149.788	56.122	16.902	1.00	63.18	A16S
ATOM	7494	O3*	U	A	358	151.003	55.893	17.571	1.00	63.18	A16S
ATOM	7495	P	U	A	359	152.282	56.761	17.170	1.00	51.15	A16S
ATOM	7496	O1P	U	A	359	153.393	56.325	18.055	1.00	67.67	A16S
ATOM	7497	O2P	U	A	359	151.891	58.198	17.134	1.00	67.67	A16S
ATOM	7498	O5*	U	A	359	152.589	56.299	15.678	1.00	51.15	A16S
ATOM	7499	C5*	U	A	359	153.173	55.019	15.407	1.00	51.15	A16S
ATOM	7500	C4*	U	A	359	153.345	54.832	13.920	1.00	51.15	A16S
ATOM	7501	O4*	U	A	359	152.040	54.862	13.293	1.00	51.15	A16S
ATOM	7502	C1*	U	A	359	152.141	55.457	12.011	1.00	51.15	A16S
ATOM	7503	N1	U	A	359	151.250	56.623	11.953	1.00	67.67	A16S
ATOM	7504	C6	U	A	359	150.838	57.280	13.092	1.00	67.67	A16S
ATOM	7505	C2	U	A	359	150.846	57.044	10.700	1.00	67.67	A16S
ATOM	7506	O2	U	A	359	151.188	56.483	9.668	1.00	67.67	A16S
ATOM	7507	N3	U	A	359	150.032	58.147	10.699	1.00	67.67	A16S
ATOM	7508	C4	U	A	359	149.590	58.857	11.797	1.00	67.67	A16S
ATOM	7509	O4	U	A	359	148.873	59.849	11.629	1.00	67.67	A16S
ATOM	7510	C5	U	A	359	150.046	58.351	13.058	1.00	67.67	A16S
ATOM	7511	C2*	U	A	359	153.602	55.833	11.775	1.00	51.15	A16S
ATOM	7512	O2*	U	A	359	154.217	54.830	10.998	1.00	51.15	A16S
ATOM	7513	C3*	U	A	359	154.134	55.912	13.197	1.00	51.15	A16S
ATOM	7514	O3*	U	A	359	155.529	55.686	13.238	1.00	51.15	A16S
ATOM	7515	P	A	A	360	156.527	56.912	12.961	1.00	52.87	A16S
ATOM	7516	O1P	A	A	360	157.927	56.446	13.156	1.00	75.72	A16S
ATOM	7517	O2P	A	A	360	156.022	58.059	13.760	1.00	75.72	A16S
ATOM	7518	O5*	A	A	360	156.324	57.223	11.407	1.00	52.87	A16S
ATOM	7519	C5*	A	A	360	156.782	56.284	10.410	1.00	52.87	A16S
ATOM	7520	C4*	A	A	360	156.559	56.822	9.013	1.00	52.87	A16S
ATOM	7521	O4*	A	A	360	155.144	56.878	8.710	1.00	52.87	A16S
ATOM	7522	C1*	A	A	360	154.872	58.020	7.919	1.00	52.87	A16S
ATOM	7523	N9	A	A	360	154.001	58.902	8.696	1.00	75.72	A16S
ATOM	7524	C4	A	A	360	153.116	59.825	8.195	1.00	75.72	A16S
ATOM	7525	N3	A	A	360	152.878	60.107	6.904	1.00	75.72	A16S
ATOM	7526	C2	A	A	360	151.955	61.056	6.798	1.00	75.72	A16S
ATOM	7527	N1	A	A	360	151.289	61.700	7.760	1.00	75.72	A16S
ATOM	7528	C6	A	A	360	151.548	61.385	9.045	1.00	75.72	A16S
ATOM	7529	N6	A	A	360	150.872	62.012	10.002	1.00	75.72	A16S
ATOM	7530	C5	A	A	360	152.514	60.406	9.295	1.00	75.72	A16S
ATOM	7531	N7	A	A	360	153.014	59.870	10.473	1.00	75.72	A16S
ATOM	7532	C8	A	A	360	153.891	58.986	10.067	1.00	75.72	A16S
ATOM	7533	C2*	A	A	360	156.209	58.681	7.587	1.00	52.87	A16S
ATOM	7534	O2*	A	A	360	156.686	58.172	6.359	1.00	52.87	A16S
ATOM	7535	C3*	A	A	360	157.072	58.224	8.752	1.00	52.87	A16S
ATOM	7536	O3*	A	A	360	158.441	58.194	8.404	1.00	52.87	A16S
ATOM	7537	P	G	A	361	159.383	59.437	8.785	1.00	47.54	A16S
ATOM	7538	O1P	G	A	361	159.111	59.776	10.222	1.00	68.30	A16S
ATOM	7539	O2P	G	A	361	160.768	59.083	8.361	1.00	68.30	A16S

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ATOM	7540	O5*	G	A	361	158.859	60.612	7.839	1.00	47.54	A16S
ATOM	7541	C5*	G	A	361	158.915	60.470	6.407	1.00	47.54	A16S
ATOM	7542	C4*	G	A	361	158.141	61.576	5.725	1.00	47.54	A16S
ATOM	7543	O4*	G	A	361	156.711	61.410	5.919	1.00	47.54	A16S
ATOM	7544	C1*	G	A	361	156.090	62.680	5.999	1.00	47.54	A16S
ATOM	7545	N9	G	A	361	155.498	62.813	7.328	1.00	68.30	A16S
ATOM	7546	C4	G	A	361	154.419	63.587	7.674	1.00	68.30	A16S
ATOM	7547	N3	G	A	361	153.669	64.321	6.828	1.00	68.30	A16S
ATOM	7548	C2	G	A	361	152.722	64.989	7.466	1.00	68.30	A16S
ATOM	7549	N2	G	A	361	151.871	65.767	6.774	1.00	68.30	A16S
ATOM	7550	N1	G	A	361	152.537	64.942	8.832	1.00	68.30	A16S
ATOM	7551	C6	G	A	361	153.304	64.196	9.720	1.00	68.30	A16S
ATOM	7552	O6	G	A	361	153.066	64.240	10.931	1.00	68.30	A16S
ATOM	7553	C5	G	A	361	154.307	63.467	9.047	1.00	68.30	A16S
ATOM	7554	N7	G	A	361	155.267	62.604	9.545	1.00	68.30	A16S
ATOM	7555	C8	G	A	361	155.942	62.231	8.492	1.00	68.30	A16S
ATOM	7556	C2*	G	A	361	157.180	63.734	5.777	1.00	47.54	A16S
ATOM	7557	O2*	G	A	361	157.239	64.094	4.417	1.00	47.54	A16S
ATOM	7558	C3*	G	A	361	158.432	62.982	6.199	1.00	47.54	A16S
ATOM	7559	O3*	G	A	361	159.601	63.493	5.597	1.00	47.54	A16S
ATOM	7560	P	G	A	362	160.697	64.217	6.516	1.00	54.72	A16S
ATOM	7561	O1P	G	A	362	161.872	64.558	5.672	1.00	68.73	A16S
ATOM	7562	O2P	G	A	362	160.883	63.419	7.757	1.00	68.73	A16S
ATOM	7563	O5*	G	A	362	159.987	65.581	6.912	1.00	54.72	A16S
ATOM	7564	C5*	G	A	362	159.434	66.419	5.892	1.00	54.72	A16S
ATOM	7565	C4*	G	A	362	158.504	67.449	6.485	1.00	54.72	A16S
ATOM	7566	O4*	G	A	362	157.280	66.829	6.958	1.00	54.72	A16S
ATOM	7567	C1*	G	A	362	156.760	67.585	8.038	1.00	54.72	A16S
ATOM	7568	N9	G	A	362	156.746	66.749	9.234	1.00	68.73	A16S
ATOM	7569	C4	G	A	362	155.827	66.800	10.250	1.00	68.73	A16S
ATOM	7570	N3	G	A	362	154.755	67.612	10.303	1.00	68.73	A16S
ATOM	7571	C2	G	A	362	154.071	67.451	11.414	1.00	68.73	A16S
ATOM	7572	N2	G	A	362	152.973	68.187	11.628	1.00	68.73	A16S
ATOM	7573	N1	G	A	362	154.411	66.557	12.399	1.00	68.73	A16S
ATOM	7574	C6	G	A	362	155.511	65.706	12.365	1.00	68.73	A16S
ATOM	7575	O6	G	A	362	155.734	64.932	13.315	1.00	68.73	A16S
ATOM	7576	C5	G	A	362	156.251	65.871	11.176	1.00	68.73	A16S
ATOM	7577	N7	G	A	362	157.403	65.232	10.743	1.00	68.73	A16S
ATOM	7578	C8	G	A	362	157.657	65.782	9.586	1.00	68.73	A16S
ATOM	7579	C2*	G	A	362	157.681	68.791	8.223	1.00	54.72	A16S
ATOM	7580	O2*	G	A	362	157.216	69.857	7.402	1.00	54.72	A16S
ATOM	7581	C3*	G	A	362	158.990	68.254	7.677	1.00	54.72	A16S
ATOM	7582	O3*	G	A	362	159.855	69.311	7.321	1.00	54.72	A16S
ATOM	7583	P	A	A	363	161.066	69.686	8.300	1.00	51.23	A16S
ATOM	7584	O1P	A	A	363	161.470	68.419	8.963	1.00	52.23	A16S
ATOM	7585	O2P	A	A	363	162.078	70.488	7.557	1.00	52.23	A16S
ATOM	7586	O5*	A	A	363	160.412	70.593	9.435	1.00	51.23	A16S
ATOM	7587	C5*	A	A	363	161.226	71.120	10.503	1.00	51.23	A16S
ATOM	7588	C4*	A	A	363	160.461	72.156	11.293	1.00	51.23	A16S
ATOM	7589	O4*	A	A	363	160.220	73.338	10.490	1.00	51.23	A16S
ATOM	7590	C1*	A	A	363	158.962	73.897	10.820	1.00	51.23	A16S
ATOM	7591	N9	A	A	363	158.138	73.841	9.626	1.00	52.23	A16S
ATOM	7592	C4	A	A	363	156.980	74.534	9.400	1.00	52.23	A16S
ATOM	7593	N3	A	A	363	156.377	75.409	10.224	1.00	52.23	A16S
ATOM	7594	C2	A	A	363	155.268	75.890	9.656	1.00	52.23	A16S
ATOM	7595	N1	A	A	363	154.740	75.612	8.450	1.00	52.23	A16S
ATOM	7596	C6	A	A	363	155.385	74.731	7.656	1.00	52.23	A16S
ATOM	7597	N6	A	A	363	154.884	74.454	6.459	1.00	52.23	A16S
ATOM	7598	C5	A	A	363	156.559	74.155	8.137	1.00	52.23	A16S
ATOM	7599	N7	A	A	363	157.437	73.242	7.577	1.00	52.23	A16S
ATOM	7600	C8	A	A	363	158.353	73.088	8.499	1.00	52.23	A16S
ATOM	7601	C2*	A	A	363	158.362	73.061	11.945	1.00	51.23	A16S
ATOM	7602	O2*	A	A	363	158.644	73.678	13.185	1.00	51.23	A16S
ATOM	7603	C3*	A	A	363	159.085	71.732	11.755	1.00	51.23	A16S
ATOM	7604	O3*	A	A	363	159.179	70.992	12.949	1.00	51.23	A16S
ATOM	7605	P	A	A	364	158.154	69.790	13.206	1.00	53.28	A16S
ATOM	7606	O1P	A	A	364	158.502	69.275	14.561	1.00	62.14	A16S
ATOM	7607	O2P	A	A	364	158.161	68.866	12.029	1.00	62.14	A16S
ATOM	7608	O5*	A	A	364	156.732	70.511	13.236	1.00	53.28	A16S
ATOM	7609	C5*	A	A	364	156.408	71.491	14.249	1.00	53.28	A16S
ATOM	7610	C4*	A	A	364	154.982	71.958	14.070	1.00	53.28	A16S
ATOM	7611	O4*	A	A	364	154.874	72.682	12.823	1.00	53.28	A16S
ATOM	7612	C1*	A	A	364	153.636	72.385	12.203	1.00	53.28	A16S
ATOM	7613	N9	A	A	364	153.922	71.918	10.847	1.00	62.14	A16S
ATOM	7614	C4	A	A	364	153.331	72.372	9.693	1.00	62.14	A16S
ATOM	7615	N3	A	A	364	152.361	73.296	9.583	1.00	62.14	A16S
ATOM	7616	C2	A	A	364	152.048	73.495	8.307	1.00	62.14	A16S

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ATOM	7617	N1	A	A 364	152.555	72.919	7.209	1.00	62.14	A16S
ATOM	7618	C6	A	A 364	153.530	71.999	7.354	1.00	62.14	A16S
ATOM	7619	N6	A	A 364	154.041	71.436	6.256	1.00	62.14	A16S
ATOM	7620	C5	A	A 364	153.950	71.696	8.662	1.00	62.14	A16S
ATOM	7621	N7	A	A 364	154.902	70.820	9.156	1.00	62.14	A16S
ATOM	7622	C8	A	A 364	154.841	70.986	10.454	1.00	62.14	A16S
ATOM	7623	C2*	A	A 364	152.850	71.430	13.107	1.00	53.28	A16S
ATOM	7624	O2*	A	A 364	151.887	72.165	13.838	1.00	53.28	A16S
ATOM	7625	C3*	A	A 364	153.957	70.836	13.978	1.00	53.28	A16S
ATOM	7626	O3*	A	A 364	153.520	70.515	15.292	1.00	53.28	A16S
ATOM	7627	P	U	A 365	152.854	69.089	15.593	1.00	48.12	A16S
ATOM	7628	O1P	U	A 365	153.005	68.884	17.061	1.00	60.78	A16S
ATOM	7629	O2P	U	A 365	153.376	68.069	14.652	1.00	60.78	A16S
ATOM	7630	O5*	U	A 365	151.306	69.312	15.269	1.00	48.12	A16S
ATOM	7631	C5*	U	A 365	150.460	70.065	16.169	1.00	48.12	A16S
ATOM	7632	C4*	U	A 365	149.104	70.317	15.546	1.00	48.12	A16S
ATOM	7633	O4*	U	A 365	149.215	71.228	14.434	1.00	48.12	A16S
ATOM	7634	C1*	U	A 365	148.090	71.051	13.609	1.00	48.12	A16S
ATOM	7635	N1	U	A 365	148.442	71.335	12.209	1.00	60.78	A16S
ATOM	7636	C6	U	A 365	147.732	72.282	11.513	1.00	60.78	A16S
ATOM	7637	C2	U	A 365	149.477	70.642	11.607	1.00	60.78	A16S
ATOM	7638	O2	U	A 365	150.132	69.788	12.178	1.00	60.78	A16S
ATOM	7639	N3	U	A 365	149.711	70.986	10.297	1.00	60.78	A16S
ATOM	7640	C4	U	A 365	149.023	71.919	9.545	1.00	60.78	A16S
ATOM	7641	O4	U	A 365	149.280	72.044	8.348	1.00	60.78	A16S
ATOM	7642	C5	U	A 365	147.980	72.587	10.241	1.00	60.78	A16S
ATOM	7643	C2*	U	A 365	147.474	69.676	13.896	1.00	48.12	A16S
ATOM	7644	O2*	U	A 365	146.131	69.830	14.290	1.00	48.12	A16S
ATOM	7645	C3*	U	A 365	148.399	69.097	14.978	1.00	48.12	A16S
ATOM	7646	O3*	U	A 365	147.637	68.496	16.026	1.00	48.12	A16S
ATOM	7647	P	C	A 366	147.846	66.946	16.412	1.00	50.97	A16S
ATOM	7648	O1P	C	A 366	149.310	66.683	16.541	1.00	63.42	A16S
ATOM	7649	O2P	C	A 366	147.027	66.118	15.490	1.00	63.42	A16S
ATOM	7650	O5*	C	A 366	147.184	66.860	17.859	1.00	50.97	A16S
ATOM	7651	C5*	C	A 366	147.801	67.507	18.996	1.00	50.97	A16S
ATOM	7652	C4*	C	A 366	146.821	67.608	20.151	1.00	50.97	A16S
ATOM	7653	O4*	C	A 366	145.906	68.712	19.944	1.00	50.97	A16S
ATOM	7654	C1*	C	A 366	144.557	68.273	20.032	1.00	50.97	A16S
ATOM	7655	N1	C	A 366	143.825	68.910	18.912	1.00	63.42	A16S
ATOM	7656	C6	C	A 366	144.513	69.342	17.813	1.00	63.42	A16S
ATOM	7657	C2	C	A 366	142.418	69.076	18.977	1.00	63.42	A16S
ATOM	7658	O2	C	A 366	141.801	68.679	19.970	1.00	63.42	A16S
ATOM	7659	N3	C	A 366	141.779	69.669	17.942	1.00	63.42	A16S
ATOM	7660	C4	C	A 366	142.476	70.087	16.880	1.00	63.42	A16S
ATOM	7661	N4	C	A 366	141.819	70.667	15.880	1.00	63.42	A16S
ATOM	7662	C5	C	A 366	143.887	69.929	16.791	1.00	63.42	A16S
ATOM	7663	C2*	C	A 366	144.562	66.748	19.936	1.00	50.97	A16S
ATOM	7664	O2*	C	A 366	143.490	66.163	20.646	1.00	50.97	A16S
ATOM	7665	C3*	C	A 366	145.966	66.378	20.429	1.00	50.97	A16S
ATOM	7666	O3*	C	A 366	146.253	65.655	21.667	1.00	50.97	A16S
ATOM	7667	P	U	A 367	145.985	66.319	23.121	1.00	48.36	A16S
ATOM	7668	O1P	U	A 367	145.531	67.723	22.947	1.00	80.61	A16S
ATOM	7669	O2P	U	A 367	147.203	66.045	23.933	1.00	80.61	A16S
ATOM	7670	O5*	U	A 367	144.764	65.477	23.720	1.00	48.36	A16S
ATOM	7671	C5*	U	A 367	144.444	64.138	23.245	1.00	48.36	A16S
ATOM	7672	C4*	U	A 367	143.308	63.567	24.060	1.00	48.36	A16S
ATOM	7673	O4*	U	A 367	142.212	64.512	24.061	1.00	48.36	A16S
ATOM	7674	C1*	U	A 367	141.022	63.870	23.675	1.00	48.36	A16S
ATOM	7675	N1	U	A 367	140.199	64.839	22.930	1.00	80.61	A16S
ATOM	7676	C6	U	A 367	140.515	65.225	21.645	1.00	80.61	A16S
ATOM	7677	C2	U	A 367	139.081	65.361	23.570	1.00	80.61	A16S
ATOM	7678	O2	U	A 367	138.761	65.058	24.709	1.00	80.61	A16S
ATOM	7679	N3	U	A 367	138.348	66.252	22.827	1.00	80.61	A16S
ATOM	7680	C4	U	A 367	138.605	66.672	21.542	1.00	80.61	A16S
ATOM	7681	O4	U	A 367	137.830	67.458	20.997	1.00	80.61	A16S
ATOM	7682	C5	U	A 367	139.776	66.101	20.950	1.00	80.61	A16S
ATOM	7683	C2*	U	A 367	141.440	62.613	22.909	1.00	48.36	A16S
ATOM	7684	O2*	U	A 367	140.421	61.624	22.980	1.00	48.36	A16S
ATOM	7685	C3*	U	A 367	142.725	62.221	23.644	1.00	48.36	A16S
ATOM	7686	O3*	U	A 367	142.383	61.499	24.837	1.00	48.36	A16S
ATOM	7687	P	U	A 368	143.316	60.280	25.347	1.00	62.96	A16S
ATOM	7688	O1P	U	A 368	142.927	60.015	26.765	1.00	79.79	A16S
ATOM	7689	O2P	U	A 368	144.748	60.550	25.004	1.00	79.79	A16S
ATOM	7690	O5*	U	A 368	142.837	59.041	24.480	1.00	62.96	A16S
ATOM	7691	C5*	U	A 368	141.484	58.606	24.547	1.00	62.96	A16S
ATOM	7692	C4*	U	A 368	140.942	58.401	23.161	1.00	62.96	A16S
ATOM	7693	O4*	U	A 368	141.759	57.445	22.452	1.00	62.96	A16S

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ATOM	7694	C1*	U	A	368	140.940	56.657	21.618	1.00	62.96	A16S
ATOM	7695	N1	U	A	368	141.274	55.247	21.848	1.00	79.79	A16S
ATOM	7696	C6	U	A	368	140.807	54.558	22.942	1.00	79.79	A16S
ATOM	7697	C2	U	A	368	142.081	54.631	20.905	1.00	79.79	A16S
ATOM	7698	O2	U	A	368	142.547	55.223	19.933	1.00	79.79	A16S
ATOM	7699	N3	U	A	368	142.329	53.301	21.138	1.00	79.79	A16S
ATOM	7700	C4	U	A	368	141.870	52.547	22.192	1.00	79.79	A16S
ATOM	7701	O4	U	A	368	142.056	51.333	22.180	1.00	79.79	A16S
ATOM	7702	C5	U	A	368	141.073	53.265	23.142	1.00	79.79	A16S
ATOM	7703	C2*	U	A	368	139.476	57.053	21.833	1.00	62.96	A16S
ATOM	7704	O2*	U	A	368	138.992	57.833	20.758	1.00	62.96	A16S
ATOM	7705	C3*	U	A	368	139.545	57.822	23.145	1.00	62.96	A16S
ATOM	7706	O3*	U	A	368	138.633	58.896	23.160	1.00	62.96	A16S
ATOM	7707	P	C	A	369	137.093	58.609	23.438	1.00	53.69	A16S
ATOM	7708	O1P	C	A	369	136.939	57.182	23.831	1.00	71.82	A16S
ATOM	7709	O2P	C	A	369	136.335	59.136	22.275	1.00	71.82	A16S
ATOM	7710	O5*	C	A	369	136.777	59.507	24.710	1.00	53.69	A16S
ATOM	7711	C5*	C	A	369	137.516	59.342	25.934	1.00	53.69	A16S
ATOM	7712	C4*	C	A	369	137.120	60.416	26.910	1.00	53.69	A16S
ATOM	7713	O4*	C	A	369	137.583	61.701	26.427	1.00	53.69	A16S
ATOM	7714	C1*	C	A	369	136.580	62.683	26.625	1.00	53.69	A16S
ATOM	7715	N1	C	A	369	136.200	63.222	25.301	1.00	71.82	A16S
ATOM	7716	C6	C	A	369	136.482	62.530	24.155	1.00	71.82	A16S
ATOM	7717	C2	C	A	369	135.561	64.458	25.232	1.00	71.82	A16S
ATOM	7718	O2	C	A	369	135.284	65.049	26.283	1.00	71.82	A16S
ATOM	7719	N3	C	A	369	135.252	64.976	24.022	1.00	71.82	A16S
ATOM	7720	C4	C	A	369	135.546	64.298	22.913	1.00	71.82	A16S
ATOM	7721	N4	C	A	369	135.234	64.848	21.742	1.00	71.82	A16S
ATOM	7722	C5	C	A	369	136.176	63.027	22.954	1.00	71.82	A16S
ATOM	7723	C2*	C	A	369	135.431	62.028	27.395	1.00	53.69	A16S
ATOM	7724	O2*	C	A	369	135.571	62.282	28.779	1.00	53.69	A16S
ATOM	7725	C3*	C	A	369	135.619	60.563	27.025	1.00	53.69	A16S
ATOM	7726	O3*	C	A	369	135.105	59.654	27.972	1.00	53.69	A16S
ATOM	7727	P	C	A	370	133.616	59.101	27.793	1.00	57.75	A16S
ATOM	7728	O1P	C	A	370	133.395	58.768	26.360	1.00	73.20	A16S
ATOM	7729	O2P	C	A	370	133.391	58.066	28.838	1.00	73.20	A16S
ATOM	7730	O5*	C	A	370	132.725	60.371	28.130	1.00	57.75	A16S
ATOM	7731	C5*	C	A	370	132.755	60.950	29.442	1.00	57.75	A16S
ATOM	7732	C4*	C	A	370	131.618	61.921	29.602	1.00	57.75	A16S
ATOM	7733	O4*	C	A	370	131.944	63.181	28.961	1.00	57.75	A16S
ATOM	7734	C1*	C	A	370	130.775	63.723	28.374	1.00	57.75	A16S
ATOM	7735	N1	C	A	370	131.000	63.910	26.928	1.00	73.20	A16S
ATOM	7736	C6	C	A	370	131.977	63.219	26.271	1.00	73.20	A16S
ATOM	7737	C2	C	A	370	130.187	64.803	26.234	1.00	73.20	A16S
ATOM	7738	O2	C	A	370	129.334	65.443	26.860	1.00	73.20	A16S
ATOM	7739	N3	C	A	370	130.355	64.953	24.901	1.00	73.20	A16S
ATOM	7740	C4	C	A	370	131.303	64.262	24.266	1.00	73.20	A16S
ATOM	7741	N4	C	A	370	131.433	64.427	22.943	1.00	73.20	A16S
ATOM	7742	C5	C	A	370	132.163	63.366	24.954	1.00	73.20	A16S
ATOM	7743	C2*	C	A	370	129.606	62.782	28.685	1.00	57.75	A16S
ATOM	7744	O2*	C	A	370	128.927	63.290	29.809	1.00	57.75	A16S
ATOM	7745	C3*	C	A	370	130.319	61.462	28.964	1.00	57.75	A16S
ATOM	7746	O3*	C	A	370	129.605	60.565	29.824	1.00	57.75	A16S
ATOM	7747	P	G	A	371	128.585	59.477	29.191	1.00	60.47	A16S
ATOM	7748	O1P	G	A	371	128.038	58.646	30.302	1.00	67.23	A16S
ATOM	7749	O2P	G	A	371	129.194	58.810	27.994	1.00	67.23	A16S
ATOM	7750	O5*	G	A	371	127.385	60.377	28.683	1.00	60.47	A16S
ATOM	7751	C5*	G	A	371	126.908	61.440	29.513	1.00	60.47	A16S
ATOM	7752	C4*	G	A	371	125.953	62.303	28.753	1.00	60.47	A16S
ATOM	7753	O4*	G	A	371	126.620	63.361	28.019	1.00	60.47	A16S
ATOM	7754	C1*	G	A	371	125.902	63.618	26.822	1.00	60.47	A16S
ATOM	7755	N9	G	A	371	126.775	63.368	25.678	1.00	67.23	A16S
ATOM	7756	C4	G	A	371	126.543	63.747	24.370	1.00	67.23	A16S
ATOM	7757	N3	G	A	371	125.474	64.439	23.916	1.00	67.23	A16S
ATOM	7758	C2	G	A	371	125.539	64.654	22.607	1.00	67.23	A16S
ATOM	7759	N2	G	A	371	124.562	65.326	21.986	1.00	67.23	A16S
ATOM	7760	N1	G	A	371	126.564	64.221	21.810	1.00	67.23	A16S
ATOM	7761	C6	G	A	371	127.669	63.501	22.250	1.00	67.23	A16S
ATOM	7762	O6	G	A	371	128.531	63.143	21.437	1.00	67.23	A16S
ATOM	7763	C5	G	A	371	127.620	63.271	23.658	1.00	67.23	A16S
ATOM	7764	N7	G	A	371	128.515	62.619	24.497	1.00	67.23	A16S
ATOM	7765	C8	G	A	371	127.974	62.701	25.680	1.00	67.23	A16S
ATOM	7766	C2*	G	A	371	124.692	62.686	26.809	1.00	60.47	A16S
ATOM	7767	O2*	G	A	371	123.630	63.414	27.379	1.00	60.47	A16S
ATOM	7768	C3*	G	A	371	125.173	61.551	27.707	1.00	60.47	A16S
ATOM	7769	O3*	G	A	371	124.185	60.741	28.325	1.00	60.47	A16S
ATOM	7770	P	C	A	372	123.589	59.479	27.533	1.00	61.52	A16S

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ATOM	7771	O1P	C	A	372	122.899	58.630	28.530	1.00	61.62	A16S
ATOM	7772	O2P	C	A	372	124.659	58.904	26.678	1.00	61.62	A16S
ATOM	7773	O5*	C	A	372	122.477	60.168	26.637	1.00	61.52	A16S
ATOM	7774	C5*	C	A	372	121.846	61.359	27.151	1.00	61.52	A16S
ATOM	7775	C4*	C	A	372	121.150	62.117	26.064	1.00	61.52	A16S
ATOM	7776	O4*	C	A	372	122.027	62.490	24.989	1.00	61.52	A16S
ATOM	7777	C1*	C	A	372	121.222	62.785	23.873	1.00	61.52	A16S
ATOM	7778	N1	C	A	372	122.074	62.680	22.676	1.00	61.62	A16S
ATOM	7779	C6	C	A	372	123.280	62.038	22.737	1.00	61.62	A16S
ATOM	7780	C2	C	A	372	121.636	63.241	21.472	1.00	61.62	A16S
ATOM	7781	O2	C	A	372	120.542	63.841	21.444	1.00	61.62	A16S
ATOM	7782	N3	C	A	372	122.416	63.115	20.369	1.00	61.62	A16S
ATOM	7783	C4	C	A	372	123.581	62.466	20.441	1.00	61.62	A16S
ATOM	7784	N4	C	A	372	124.299	62.334	19.328	1.00	61.62	A16S
ATOM	7785	C5	C	A	372	124.056	61.913	21.655	1.00	61.62	A16S
ATOM	7786	C2*	C	A	372	120.075	61.761	23.927	1.00	61.52	A16S
ATOM	7787	O2*	C	A	372	118.865	62.101	23.260	1.00	61.52	A16S
ATOM	7788	C3*	C	A	372	120.040	61.329	25.414	1.00	61.52	A16S
ATOM	7789	O3*	C	A	372	118.900	61.518	26.276	1.00	61.52	A16S
ATOM	7790	P	A	A	373	118.203	62.958	26.407	1.00	51.60	A16S
ATOM	7791	O1P	A	A	373	116.748	62.677	26.572	1.00	76.24	A16S
ATOM	7792	O2P	A	A	373	118.660	63.838	25.295	1.00	76.24	A16S
ATOM	7793	O5*	A	A	373	118.754	63.610	27.754	1.00	51.60	A16S
ATOM	7794	C5*	A	A	373	117.812	64.206	28.701	1.00	51.60	A16S
ATOM	7795	C4*	A	A	373	117.755	65.736	28.583	1.00	51.60	A16S
ATOM	7796	O4*	A	A	373	118.946	66.328	29.154	1.00	51.60	A16S
ATOM	7797	C1*	A	A	373	119.296	67.482	28.423	1.00	51.60	A16S
ATOM	7798	N9	A	A	373	120.581	67.222	27.776	1.00	76.24	A16S
ATOM	7799	C4	A	A	373	121.304	68.087	26.993	1.00	76.24	A16S
ATOM	7800	N3	A	A	373	120.981	69.346	26.657	1.00	76.24	A16S
ATOM	7801	C2	A	A	373	121.920	69.873	25.880	1.00	76.24	A16S
ATOM	7802	N1	A	A	373	123.057	69.328	25.437	1.00	76.24	A16S
ATOM	7803	C6	A	A	373	123.349	68.063	25.799	1.00	76.24	A16S
ATOM	7804	N6	A	A	373	124.487	67.515	25.365	1.00	76.24	A16S
ATOM	7805	C5	A	A	373	122.436	67.395	26.617	1.00	76.24	A16S
ATOM	7806	N7	A	A	373	122.432	66.119	27.152	1.00	76.24	A16S
ATOM	7807	C8	A	A	373	121.314	66.065	27.826	1.00	76.24	A16S
ATOM	7808	C2*	A	A	373	118.170	67.769	27.430	1.00	51.60	A16S
ATOM	7809	O2*	A	A	373	117.245	68.625	28.058	1.00	51.60	A16S
ATOM	7810	C3*	A	A	373	117.573	66.387	27.211	1.00	51.60	A16S
ATOM	7811	O3*	A	A	373	116.186	66.524	26.869	1.00	51.60	A16S
ATOM	7812	P	A	A	374	115.757	66.963	25.370	1.00	50.59	A16S
ATOM	7813	O1P	A	A	374	114.278	67.196	25.319	1.00	73.06	A16S
ATOM	7814	O2P	A	A	374	116.374	65.992	24.433	1.00	73.06	A16S
ATOM	7815	O5*	A	A	374	116.477	68.365	25.137	1.00	50.59	A16S
ATOM	7816	C5*	A	A	374	115.928	69.585	25.671	1.00	50.59	A16S
ATOM	7817	C4*	A	A	374	116.585	70.781	25.019	1.00	50.59	A16S
ATOM	7818	O4*	A	A	374	118.021	70.728	25.241	1.00	50.59	A16S
ATOM	7819	C1*	A	A	374	118.699	71.185	24.084	1.00	50.59	A16S
ATOM	7820	N9	A	A	374	119.551	70.098	23.588	1.00	73.06	A16S
ATOM	7821	C4	A	A	374	120.436	70.173	22.536	1.00	73.06	A16S
ATOM	7822	N3	A	A	374	120.698	71.241	21.756	1.00	73.06	A16S
ATOM	7823	C2	A	A	374	121.595	70.932	20.821	1.00	73.06	A16S
ATOM	7824	N1	A	A	374	122.212	69.771	20.596	1.00	73.06	A16S
ATOM	7825	C6	A	A	374	121.928	68.724	21.398	1.00	73.06	A16S
ATOM	7826	N6	A	A	374	122.537	67.566	21.169	1.00	73.06	A16S
ATOM	7827	C5	A	A	374	120.997	68.917	22.427	1.00	73.06	A16S
ATOM	7828	N7	A	A	374	120.486	68.064	23.393	1.00	73.06	A16S
ATOM	7829	C8	A	A	374	119.635	68.808	24.053	1.00	73.06	A16S
ATOM	7830	C2*	A	A	374	117.642	71.635	23.069	1.00	50.59	A16S
ATOM	7831	O2*	A	A	374	117.426	73.027	23.169	1.00	50.59	A16S
ATOM	7832	C3*	A	A	374	116.426	70.843	23.512	1.00	50.59	A16S
ATOM	7833	O3*	A	A	374	115.238	71.508	23.156	1.00	50.59	A16S
ATOM	7834	P	U	A	375	114.441	71.031	21.855	1.00	44.29	A16S
ATOM	7835	O1P	U	A	375	113.210	71.848	21.745	1.00	60.30	A16S
ATOM	7836	O2P	U	A	375	114.342	69.554	21.956	1.00	60.30	A16S
ATOM	7837	O5*	U	A	375	115.403	71.417	20.642	1.00	44.29	A16S
ATOM	7838	C5*	U	A	375	115.659	72.814	20.311	1.00	44.29	A16S
ATOM	7839	C4*	U	A	375	116.514	72.938	19.056	1.00	44.29	A16S
ATOM	7840	O4*	U	A	375	117.902	72.627	19.352	1.00	44.29	A16S
ATOM	7841	C1*	U	A	375	118.463	71.901	18.267	1.00	44.29	A16S
ATOM	7842	N1	U	A	375	118.822	70.550	18.747	1.00	60.30	A16S
ATOM	7843	C6	U	A	375	118.267	70.024	19.896	1.00	60.30	A16S
ATOM	7844	C2	U	A	375	119.743	69.812	18.011	1.00	60.30	A16S
ATOM	7845	O2	U	A	375	120.248	70.216	16.980	1.00	60.30	A16S
ATOM	7846	N3	U	A	375	120.043	68.576	18.527	1.00	60.30	A16S
ATOM	7847	C4	U	A	375	119.529	68.003	19.666	1.00	60.30	A16S

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ATOM	7848	O4	U	A	375	119.939	66.898	20.025	1.00	60.30	A16S
ATOM	7849	C5	U	A	375	118.578	68.811	20.363	1.00	60.30	A16S
ATOM	7850	C2*	U	A	375	117.432	71.891	17.130	1.00	44.29	A16S
ATOM	7851	O2*	U	A	375	117.611	73.008	16.279	1.00	44.29	A16S
ATOM	7852	C3*	U	A	375	116.133	72.022	17.901	1.00	44.29	A16S
ATOM	7853	O3*	U	A	375	115.116	72.570	17.086	1.00	44.29	A16S
ATOM	7854	P	G	A	376	114.031	71.587	16.432	1.00	45.79	A16S
ATOM	7855	O1P	G	A	376	113.016	72.426	15.735	1.00	63.10	A16S
ATOM	7856	O2P	G	A	376	113.602	70.624	17.496	1.00	63.10	A16S
ATOM	7857	O5*	G	A	376	114.853	70.777	15.332	1.00	45.79	A16S
ATOM	7858	C5*	G	A	376	115.537	71.472	14.268	1.00	45.79	A16S
ATOM	7859	C4*	G	A	376	116.478	70.542	13.525	1.00	45.79	A16S
ATOM	7860	O4*	G	A	376	117.679	70.249	14.298	1.00	45.79	A16S
ATOM	7861	C1*	G	A	376	118.140	68.947	13.976	1.00	45.79	A16S
ATOM	7862	N9	G	A	376	118.129	68.121	15.182	1.00	63.10	A16S
ATOM	7863	C4	G	A	376	118.710	66.880	15.326	1.00	63.10	A16S
ATOM	7864	N3	G	A	376	119.437	66.232	14.394	1.00	63.10	A16S
ATOM	7865	C2	G	A	376	119.858	65.060	14.824	1.00	63.10	A16S
ATOM	7866	N2	G	A	376	120.627	64.304	14.033	1.00	63.10	A16S
ATOM	7867	N1	G	A	376	119.564	64.549	16.064	1.00	63.10	A16S
ATOM	7868	C6	G	A	376	118.802	65.193	17.034	1.00	63.10	A16S
ATOM	7869	O6	G	A	376	118.571	64.634	18.115	1.00	63.10	A16S
ATOM	7870	C5	G	A	376	118.373	66.464	16.595	1.00	63.10	A16S
ATOM	7871	N7	G	A	376	117.626	67.431	17.247	1.00	63.10	A16S
ATOM	7872	C8	G	A	376	117.512	68.396	16.376	1.00	63.10	A16S
ATOM	7873	C2*	G	A	376	117.192	68.384	12.915	1.00	45.79	A16S
ATOM	7874	O2*	G	A	376	117.696	68.702	11.641	1.00	45.79	A16S
ATOM	7875	C3*	G	A	376	115.929	69.181	13.166	1.00	45.79	A16S
ATOM	7876	O3*	G	A	376	115.133	69.235	12.012	1.00	45.79	A16S
ATOM	7877	P	G	A	377	114.063	68.070	11.750	1.00	41.55	A16S
ATOM	7878	O1P	G	A	377	113.242	68.446	10.567	1.00	68.22	A16S
ATOM	7879	O2P	G	A	377	113.399	67.750	13.044	1.00	68.22	A16S
ATOM	7880	O5*	G	A	377	114.972	66.833	11.351	1.00	41.55	A16S
ATOM	7881	C5*	G	A	377	115.739	66.866	10.142	1.00	41.55	A16S
ATOM	7882	C4*	G	A	377	116.429	65.547	9.934	1.00	41.55	A16S
ATOM	7883	O4*	G	A	377	117.409	65.337	10.976	1.00	41.55	A16S
ATOM	7884	C1*	G	A	377	117.443	63.971	11.316	1.00	41.55	A16S
ATOM	7885	N9	G	A	377	117.092	63.852	12.725	1.00	68.22	A16S
ATOM	7886	C4	G	A	377	117.224	62.736	13.511	1.00	68.22	A16S
ATOM	7887	N3	G	A	377	117.731	61.552	13.123	1.00	68.22	A16S
ATOM	7888	C2	G	A	377	117.720	60.671	14.104	1.00	68.22	A16S
ATOM	7889	N2	G	A	377	118.205	59.447	13.905	1.00	68.22	A16S
ATOM	7890	N1	G	A	377	117.235	60.925	15.360	1.00	68.22	A16S
ATOM	7891	C6	G	A	377	116.703	62.137	15.777	1.00	68.22	A16S
ATOM	7892	O6	G	A	377	116.282	62.263	16.932	1.00	68.22	A16S
ATOM	7893	C5	G	A	377	116.727	63.096	14.741	1.00	68.22	A16S
ATOM	7894	N7	G	A	377	116.313	64.418	14.736	1.00	68.22	A16S
ATOM	7895	C8	G	A	377	116.549	64.825	13.521	1.00	68.22	A16S
ATOM	7896	C2*	G	A	377	116.460	63.233	10.401	1.00	41.55	A16S
ATOM	7897	O2*	G	A	377	117.146	62.732	9.274	1.00	41.55	A16S
ATOM	7898	C3*	G	A	377	115.513	64.343	9.999	1.00	41.55	A16S
ATOM	7899	O3*	G	A	377	114.961	64.100	8.724	1.00	41.55	A16S
ATOM	7900	P	G	A	378	113.617	63.249	8.594	1.00	49.04	A16S
ATOM	7901	O1P	G	A	378	113.186	63.318	7.169	1.00	51.69	A16S
ATOM	7902	O2P	G	A	378	112.681	63.666	9.664	1.00	51.69	A16S
ATOM	7903	O5*	G	A	378	114.103	61.770	8.910	1.00	49.04	A16S
ATOM	7904	C5*	G	A	378	114.967	61.072	7.989	1.00	49.04	A16S
ATOM	7905	C4*	G	A	378	115.106	59.630	8.401	1.00	49.04	A16S
ATOM	7906	O4*	G	A	378	115.922	59.539	9.601	1.00	49.04	A16S
ATOM	7907	C1*	G	A	378	115.425	58.496	10.429	1.00	49.04	A16S
ATOM	7908	N9	G	A	378	115.047	59.060	11.720	1.00	51.69	A16S
ATOM	7909	C4	G	A	378	115.059	58.408	12.925	1.00	51.69	A16S
ATOM	7910	N3	G	A	378	115.429	57.128	13.130	1.00	51.69	A16S
ATOM	7911	C2	G	A	378	115.350	56.791	14.404	1.00	51.69	A16S
ATOM	7912	N2	G	A	378	115.711	55.565	14.791	1.00	51.69	A16S
ATOM	7913	N1	G	A	378	114.920	57.634	15.394	1.00	51.69	A16S
ATOM	7914	C6	G	A	378	114.524	58.953	15.204	1.00	51.69	A16S
ATOM	7915	O6	G	A	378	114.139	59.629	16.167	1.00	51.69	A16S
ATOM	7916	C5	G	A	378	114.625	59.333	13.845	1.00	51.69	A16S
ATOM	7917	N7	G	A	378	114.346	60.543	13.231	1.00	51.69	A16S
ATOM	7918	C8	G	A	378	114.608	60.333	11.972	1.00	51.69	A16S
ATOM	7919	C2*	G	A	378	114.239	57.843	9.716	1.00	49.04	A16S
ATOM	7920	O2*	G	A	378	114.686	56.698	9.019	1.00	49.04	A16S
ATOM	7921	C3*	G	A	378	113.796	58.952	8.774	1.00	49.04	A16S
ATOM	7922	O3*	G	A	378	113.102	58.455	7.647	1.00	49.04	A16S
ATOM	7923	P	C	A	379	111.500	58.354	7.698	1.00	45.18	A16S
ATOM	7924	O1P	C	A	379	111.053	57.990	6.318	1.00	59.57	A16S

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ATOM	7925	O2P	C	A	379	110.931	59.563	8.372	1.00	59.57	A16S
ATOM	7926	O5*	C	A	379	111.232	57.132	8.676	1.00	45.18	A16S
ATOM	7927	C5*	C	A	379	111.609	55.809	8.291	1.00	45.18	A16S
ATOM	7928	C4*	C	A	379	111.473	54.865	9.456	1.00	45.18	A16S
ATOM	7929	O4*	C	A	379	112.385	55.242	10.526	1.00	45.18	A16S
ATOM	7930	C1*	C	A	379	111.858	54.811	11.758	1.00	45.18	A16S
ATOM	7931	N1	C	A	379	111.779	55.951	12.681	1.00	59.57	A16S
ATOM	7932	C6	C	A	379	111.512	57.213	12.230	1.00	59.57	A16S
ATOM	7933	C2	C	A	379	111.949	55.713	14.058	1.00	59.57	A16S
ATOM	7934	O2	C	A	379	112.260	54.575	14.439	1.00	59.57	A16S
ATOM	7935	N3	C	A	379	111.782	56.728	14.933	1.00	59.57	A16S
ATOM	7936	C4	C	A	379	111.488	57.947	14.485	1.00	59.57	A16S
ATOM	7937	N4	C	A	379	111.311	58.911	15.386	1.00	59.57	A16S
ATOM	7938	C5	C	A	379	111.358	58.232	13.089	1.00	59.57	A16S
ATOM	7939	C2*	C	A	379	110.492	54.181	11.484	1.00	45.18	A16S
ATOM	7940	O2*	C	A	379	110.693	52.786	11.378	1.00	45.18	A16S
ATOM	7941	C3*	C	A	379	110.119	54.790	10.137	1.00	45.18	A16S
ATOM	7942	O3*	C	A	379	109.206	53.975	9.394	1.00	45.18	A16S
ATOM	7943	P	G	A	380	107.636	54.357	9.357	1.00	53.92	A16S
ATOM	7944	O1P	G	A	380	106.919	53.372	8.486	1.00	82.05	A16S
ATOM	7945	O2P	G	A	380	107.516	55.805	9.072	1.00	82.05	A16S
ATOM	7946	O5*	G	A	380	107.180	54.151	10.869	1.00	53.92	A16S
ATOM	7947	C5*	G	A	380	107.311	52.863	11.494	1.00	53.92	A16S
ATOM	7948	C4*	G	A	380	106.967	52.933	12.963	1.00	53.92	A16S
ATOM	7949	O4*	G	A	380	108.002	53.632	13.700	1.00	53.92	A16S
ATOM	7950	C1*	G	A	380	107.433	54.253	14.835	1.00	53.92	A16S
ATOM	7951	N9	G	A	380	107.712	55.685	14.786	1.00	82.05	A16S
ATOM	7952	C4	G	A	380	107.671	56.545	15.857	1.00	82.05	A16S
ATOM	7953	N3	G	A	380	107.443	56.197	17.138	1.00	82.05	A16S
ATOM	7954	C2	G	A	380	107.400	57.249	17.934	1.00	82.05	A16S
ATOM	7955	N2	G	A	380	107.207	57.081	19.241	1.00	82.05	A16S
ATOM	7956	N1	G	A	380	107.550	58.547	17.511	1.00	82.05	A16S
ATOM	7957	C6	G	A	380	107.783	58.937	16.197	1.00	82.05	A16S
ATOM	7958	O6	G	A	380	107.881	60.147	15.920	1.00	82.05	A16S
ATOM	7959	C5	G	A	380	107.860	57.804	15.325	1.00	82.05	A16S
ATOM	7960	N7	G	A	380	108.082	57.730	13.955	1.00	82.05	A16S
ATOM	7961	C8	G	A	380	107.997	56.453	13.682	1.00	82.05	A16S
ATOM	7962	C2*	G	A	380	105.926	53.977	14.807	1.00	53.92	A16S
ATOM	7963	O2*	G	A	380	105.631	52.868	15.633	1.00	53.92	A16S
ATOM	7964	C3*	G	A	380	105.694	53.661	13.336	1.00	53.92	A16S
ATOM	7965	O3*	G	A	380	104.539	52.867	13.114	1.00	53.92	A16S
ATOM	7966	P	C	A	381	103.269	53.525	12.380	1.00	58.21	A16S
ATOM	7967	O1P	C	A	381	103.786	54.234	11.181	1.00	83.05	A16S
ATOM	7968	O2P	C	A	381	102.226	52.465	12.206	1.00	83.05	A16S
ATOM	7969	O5*	C	A	381	102.764	54.627	13.424	1.00	58.21	A16S
ATOM	7970	C5*	C	A	381	101.776	55.612	13.050	1.00	58.21	A16S
ATOM	7971	C4*	C	A	381	101.045	56.143	14.275	1.00	58.21	A16S
ATOM	7972	O4*	C	A	381	100.164	55.125	14.837	1.00	58.21	A16S
ATOM	7973	C1*	C	A	381	100.065	55.304	16.245	1.00	58.21	A16S
ATOM	7974	N1	C	A	381	100.516	54.074	16.935	1.00	83.05	A16S
ATOM	7975	C6	C	A	381	100.914	52.969	16.234	1.00	83.05	A16S
ATOM	7976	C2	C	A	381	100.546	54.061	18.346	1.00	83.05	A16S
ATOM	7977	O2	C	A	381	100.166	55.070	18.969	1.00	83.05	A16S
ATOM	7978	N3	C	A	381	100.990	52.955	18.991	1.00	83.05	A16S
ATOM	7979	C4	C	A	381	101.391	51.895	18.294	1.00	83.05	A16S
ATOM	7980	N4	C	A	381	101.836	50.840	18.972	1.00	83.05	A16S
ATOM	7981	C5	C	A	381	101.356	51.871	16.867	1.00	83.05	A16S
ATOM	7982	C2*	C	A	381	100.929	56.514	16.623	1.00	58.21	A16S
ATOM	7983	O2*	C	A	381	100.133	57.672	16.757	1.00	58.21	A16S
ATOM	7984	C3*	C	A	381	101.898	56.599	15.450	1.00	58.21	A16S
ATOM	7985	O3*	C	A	381	102.377	57.927	15.315	1.00	58.21	A16S
ATOM	7986	P	A	A	382	103.683	58.384	16.136	1.00	56.47	A16S
ATOM	7987	O1P	A	A	382	103.787	59.870	16.049	1.00	80.24	A16S
ATOM	7988	O2P	A	A	382	104.803	57.549	15.643	1.00	80.24	A16S
ATOM	7989	O5*	A	A	382	103.390	57.971	17.656	1.00	56.47	A16S
ATOM	7990	C5*	A	A	382	102.696	58.862	18.567	1.00	56.47	A16S
ATOM	7991	C4*	A	A	382	102.626	58.257	19.956	1.00	56.47	A16S
ATOM	7992	O4*	A	A	382	102.106	56.910	19.819	1.00	56.47	A16S
ATOM	7993	C1*	A	A	382	102.808	56.028	20.683	1.00	56.47	A16S
ATOM	7994	N9	A	A	382	103.481	55.010	19.860	1.00	80.24	A16S
ATOM	7995	C4	A	A	382	103.950	53.786	20.278	1.00	80.24	A16S
ATOM	7996	N3	A	A	382	103.921	53.281	21.520	1.00	80.24	A16S
ATOM	7997	C2	A	A	382	104.441	52.056	21.539	1.00	80.24	A16S
ATOM	7998	N1	A	A	382	104.953	51.337	20.538	1.00	80.24	A16S
ATOM	7999	C6	A	A	382	104.964	51.873	19.305	1.00	80.24	A16S
ATOM	8000	N6	A	A	382	105.457	51.151	18.306	1.00	80.24	A16S
ATOM	8001	C5	A	A	382	104.446	53.164	19.148	1.00	80.24	A16S

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ATOM	8002	N7	A	A 382	104.321	53.985	18.039	1.00	80.24	A16S
ATOM	8003	C8	A	A 382	103.751	55.065	18.511	1.00	80.24	A16S
ATOM	8004	C2*	A	A 382	103.737	56.873	21.561	1.00	56.47	A16S
ATOM	8005	O2*	A	A 382	103.089	57.136	22.791	1.00	56.47	A16S
ATOM	8006	C3*	A	A 382	103.954	58.112	20.693	1.00	56.47	A16S
ATOM	8007	O3*	A	A 382	104.242	59.274	21.478	1.00	56.47	A16S
ATOM	8008	P	A	A 383	105.724	59.493	22.093	1.00	59.77	A16S
ATOM	8009	O1P	A	A 383	105.713	60.744	22.899	1.00	84.01	A16S
ATOM	8010	O2P	A	A 383	106.718	59.352	20.995	1.00	84.01	A16S
ATOM	8011	O5*	A	A 383	105.905	58.290	23.124	1.00	59.77	A16S
ATOM	8012	C5*	A	A 383	105.200	58.288	24.383	1.00	59.77	A16S
ATOM	8013	C4*	A	A 383	105.451	57.003	25.126	1.00	59.77	A16S
ATOM	8014	O4*	A	A 383	104.931	55.894	24.350	1.00	59.77	A16S
ATOM	8015	C1*	A	A 383	105.804	54.780	24.466	1.00	59.77	A16S
ATOM	8016	N9	A	A 383	106.359	54.487	23.145	1.00	84.01	A16S
ATOM	8017	C4	A	A 383	106.894	53.291	22.737	1.00	84.01	A16S
ATOM	8018	N3	A	A 383	107.014	52.166	23.458	1.00	84.01	A16S
ATOM	8019	C2	A	A 383	107.540	51.196	22.718	1.00	84.01	A16S
ATOM	8020	N1	A	A 383	107.932	51.222	21.436	1.00	84.01	A16S
ATOM	8021	C6	A	A 383	107.808	52.374	20.746	1.00	84.01	A16S
ATOM	8022	N6	A	A 383	108.207	52.406	19.473	1.00	84.01	A16S
ATOM	8023	C5	A	A 383	107.261	53.475	21.415	1.00	84.01	A16S
ATOM	8024	N7	A	A 383	106.986	54.767	21.005	1.00	84.01	A16S
ATOM	8025	C8	A	A 383	106.458	55.327	22.064	1.00	84.01	A16S
ATOM	8026	C2*	A	A 383	106.910	55.157	25.449	1.00	59.77	A16S
ATOM	8027	O2*	A	A 383	106.581	54.712	26.747	1.00	59.77	A16S
ATOM	8028	C3*	A	A 383	106.918	56.672	25.330	1.00	59.77	A16S
ATOM	8029	O3*	A	A 383	107.448	57.273	26.494	1.00	59.77	A16S
ATOM	8030	P	G	A 384	108.798	58.134	26.392	1.00	68.30	A16S
ATOM	8031	O1P	G	A 384	109.386	58.253	27.759	1.00	78.67	A16S
ATOM	8032	O2P	G	A 384	108.427	59.364	25.627	1.00	78.67	A16S
ATOM	8033	O5*	G	A 384	109.790	57.239	25.511	1.00	68.30	A16S
ATOM	8034	C5*	G	A 384	110.252	55.954	25.989	1.00	68.30	A16S
ATOM	8035	C4*	G	A 384	110.695	55.061	24.838	1.00	68.30	A16S
ATOM	8036	O4*	G	A 384	109.793	55.198	23.704	1.00	68.30	A16S
ATOM	8037	C1*	G	A 384	110.501	54.956	22.501	1.00	68.30	A16S
ATOM	8038	N9	G	A 384	110.374	56.125	21.639	1.00	78.67	A16S
ATOM	8039	C4	G	A 384	110.589	56.172	20.277	1.00	78.67	A16S
ATOM	8040	N3	G	A 384	110.973	55.141	19.490	1.00	78.67	A16S
ATOM	8041	C2	G	A 384	111.071	55.499	18.220	1.00	78.67	A16S
ATOM	8042	N2	G	A 384	111.434	54.604	17.300	1.00	78.67	A16S
ATOM	8043	N1	G	A 384	110.816	56.763	17.760	1.00	78.67	A16S
ATOM	8044	C6	G	A 384	110.424	57.836	18.555	1.00	78.67	A16S
ATOM	8045	O6	G	A 384	110.213	58.940	18.043	1.00	78.67	A16S
ATOM	8046	C5	G	A 384	110.316	57.470	19.912	1.00	78.67	A16S
ATOM	8047	N7	G	A 384	109.954	58.226	21.015	1.00	78.67	A16S
ATOM	8048	C8	G	A 384	110.007	57.390	22.015	1.00	78.67	A16S
ATOM	8049	C2*	G	A 384	111.950	54.642	22.867	1.00	68.30	A16S
ATOM	8050	O2*	G	A 384	112.082	53.236	22.906	1.00	68.30	A16S
ATOM	8051	C3*	G	A 384	112.077	55.282	24.246	1.00	68.30	A16S
ATOM	8052	O3*	G	A 384	113.061	54.612	25.020	1.00	68.30	A16S
ATOM	8053	P	C	A 385	114.618	54.940	24.788	1.00	56.24	A16S
ATOM	8054	O1P	C	A 385	115.406	54.213	25.827	1.00	79.16	A16S
ATOM	8055	O2P	C	A 385	114.773	56.412	24.642	1.00	79.16	A16S
ATOM	8056	O5*	C	A 385	114.954	54.282	23.378	1.00	56.24	A16S
ATOM	8057	C5*	C	A 385	115.135	52.860	23.254	1.00	56.24	A16S
ATOM	8058	C4*	C	A 385	115.580	52.515	21.854	1.00	56.24	A16S
ATOM	8059	O4*	C	A 385	114.529	52.831	20.902	1.00	56.24	A16S
ATOM	8060	C1*	C	A 385	115.104	53.321	19.707	1.00	56.24	A16S
ATOM	8061	N1	C	A 385	114.642	54.704	19.498	1.00	79.16	A16S
ATOM	8062	C6	C	A 385	114.341	55.516	20.558	1.00	79.16	A16S
ATOM	8063	C2	C	A 385	114.529	55.186	18.189	1.00	79.16	A16S
ATOM	8064	O2	C	A 385	114.792	54.423	17.244	1.00	79.16	A16S
ATOM	8065	N3	C	A 385	114.138	56.466	17.985	1.00	79.16	A16S
ATOM	8066	C4	C	A 385	113.862	57.250	19.026	1.00	79.16	A16S
ATOM	8067	N4	C	A 385	113.498	58.503	18.780	1.00	79.16	A16S
ATOM	8068	C5	C	A 385	113.953	56.783	20.368	1.00	79.16	A16S
ATOM	8069	C2*	C	A 385	116.624	53.250	19.859	1.00	56.24	A16S
ATOM	8070	O2*	C	A 385	117.083	52.033	19.324	1.00	56.24	A16S
ATOM	8071	C3*	C	A 385	116.788	53.291	21.367	1.00	56.24	A16S
ATOM	8072	O3*	C	A 385	117.988	52.674	21.785	1.00	56.24	A16S
ATOM	8073	P	C	A 386	119.321	53.553	21.901	1.00	46.20	A16S
ATOM	8074	O1P	C	A 386	120.428	52.715	22.434	1.00	65.19	A16S
ATOM	8075	O2P	C	A 386	118.951	54.811	22.597	1.00	65.19	A16S
ATOM	8076	O5*	C	A 386	119.672	53.894	20.386	1.00	46.20	A16S
ATOM	8077	C5*	C	A 386	120.083	52.857	19.484	1.00	46.20	A16S
ATOM	8078	C4*	C	A 386	120.385	53.429	18.122	1.00	46.20	A16S

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ATOM	8079	O4*	C	A	386	119.164	53.788	17.435	1.00	46.20	A16S
ATOM	8080	C1*	C	A	386	119.404	54.912	16.611	1.00	46.20	A16S
ATOM	8081	N1	C	A	386	118.584	56.029	17.094	1.00	65.19	A16S
ATOM	8082	C6	C	A	386	118.190	56.109	18.400	1.00	65.19	A16S
ATOM	8083	C2	C	A	386	118.235	57.030	16.192	1.00	65.19	A16S
ATOM	8084	O2	C	A	386	118.591	56.917	15.011	1.00	65.19	A16S
ATOM	8085	N3	C	A	386	117.522	58.092	16.625	1.00	65.19	A16S
ATOM	8086	C4	C	A	386	117.152	58.167	17.901	1.00	65.19	A16S
ATOM	8087	N4	C	A	386	116.454	59.229	18.283	1.00	65.19	A16S
ATOM	8088	C5	C	A	386	117.482	57.153	18.842	1.00	65.19	A16S
ATOM	8089	C2*	C	A	386	120.883	55.269	16.730	1.00	46.20	A16S
ATOM	8090	O2*	C	A	386	121.604	54.647	15.686	1.00	46.20	A16S
ATOM	8091	C3*	C	A	386	121.224	54.692	18.090	1.00	46.20	A16S
ATOM	8092	O3*	C	A	386	122.596	54.404	18.187	1.00	46.20	A16S
ATOM	8093	P	U	A	387	123.550	55.422	18.965	1.00	53.75	A16S
ATOM	8094	O1P	U	A	387	124.945	54.874	18.943	1.00	77.05	A16S
ATOM	8095	O2P	U	A	387	122.893	55.707	20.271	1.00	77.05	A16S
ATOM	8096	O5*	U	A	387	123.474	56.733	18.062	1.00	53.75	A16S
ATOM	8097	C5*	U	A	387	123.756	56.669	16.652	1.00	53.75	A16S
ATOM	8098	C4*	U	A	387	123.651	58.037	16.014	1.00	53.75	A16S
ATOM	8099	O4*	U	A	387	122.267	58.453	15.848	1.00	53.75	A16S
ATOM	8100	C1*	U	A	387	122.183	59.868	15.898	1.00	53.75	A16S
ATOM	8101	N1	U	A	387	121.257	60.263	16.971	1.00	77.05	A16S
ATOM	8102	C6	U	A	387	121.360	59.733	18.235	1.00	77.05	A16S
ATOM	8103	C2	U	A	387	120.288	61.204	16.678	1.00	77.05	A16S
ATOM	8104	O2	U	A	387	120.133	61.669	15.565	1.00	77.05	A16S
ATOM	8105	N3	U	A	387	119.502	61.578	17.743	1.00	77.05	A16S
ATOM	8106	C4	U	A	387	119.576	61.105	19.042	1.00	77.05	A16S
ATOM	8107	O4	U	A	387	118.870	61.610	19.921	1.00	77.05	A16S
ATOM	8108	C5	U	A	387	120.573	60.108	19.248	1.00	77.05	A16S
ATOM	8109	C2*	U	A	387	123.599	60.395	16.120	1.00	53.75	A16S
ATOM	8110	O2*	U	A	387	124.145	60.697	14.851	1.00	53.75	A16S
ATOM	8111	C3*	U	A	387	124.290	59.192	16.752	1.00	53.75	A16S
ATOM	8112	O3*	U	A	387	125.684	59.213	16.545	1.00	53.75	A16S
ATOM	8113	P	G	A	388	126.669	59.360	17.808	1.00	56.37	A16S
ATOM	8114	O1P	G	A	388	127.132	57.999	18.198	1.00	61.13	A16S
ATOM	8115	O2P	G	A	388	126.006	60.232	18.828	1.00	61.13	A16S
ATOM	8116	O5*	G	A	388	127.912	60.130	17.186	1.00	56.37	A16S
ATOM	8117	C5*	G	A	388	127.802	61.514	16.849	1.00	56.37	A16S
ATOM	8118	C4*	G	A	388	129.164	62.084	16.609	1.00	56.37	A16S
ATOM	8119	O4*	G	A	388	130.062	61.544	17.613	1.00	56.37	A16S
ATOM	8120	C1*	G	A	388	131.107	60.832	16.992	1.00	56.37	A16S
ATOM	8121	N9	G	A	388	131.374	59.643	17.789	1.00	61.13	A16S
ATOM	8122	C4	G	A	388	132.470	59.411	18.583	1.00	61.13	A16S
ATOM	8123	N3	G	A	388	133.493	60.263	18.792	1.00	61.13	A16S
ATOM	8124	C2	G	A	388	134.402	59.746	19.613	1.00	61.13	A16S
ATOM	8125	N2	G	A	388	135.485	60.461	19.954	1.00	61.13	A16S
ATOM	8126	N1	G	A	388	134.317	58.490	20.165	1.00	61.13	A16S
ATOM	8127	C6	G	A	388	133.276	57.595	19.948	1.00	61.13	A16S
ATOM	8128	O6	G	A	388	133.304	56.474	20.472	1.00	61.13	A16S
ATOM	8129	C5	G	A	388	132.288	58.142	19.095	1.00	61.13	A16S
ATOM	8130	N7	G	A	388	131.094	57.599	18.651	1.00	61.13	A16S
ATOM	8131	C8	G	A	388	130.584	58.522	17.884	1.00	61.13	A16S
ATOM	8132	C2*	G	A	388	130.617	60.500	15.583	1.00	56.37	A16S
ATOM	8133	O2*	G	A	388	131.702	60.330	14.692	1.00	56.37	A16S
ATOM	8134	C3*	G	A	388	129.756	61.714	15.263	1.00	56.37	A16S
ATOM	8135	O3*	G	A	388	130.589	62.795	14.884	1.00	56.37	A16S
ATOM	8136	P	A	A	389	130.430	63.461	13.443	1.00	47.79	A16S
ATOM	8137	O1P	A	A	389	130.440	62.349	12.434	1.00	53.12	A16S
ATOM	8138	O2P	A	A	389	131.469	64.533	13.381	1.00	53.12	A16S
ATOM	8139	O5*	A	A	389	128.979	64.140	13.473	1.00	47.79	A16S
ATOM	8140	C5*	A	A	389	128.352	64.478	12.230	1.00	47.79	A16S
ATOM	8141	C4*	A	A	389	127.157	65.395	12.395	1.00	47.79	A16S
ATOM	8142	O4*	A	A	389	125.954	64.693	12.777	1.00	47.79	A16S
ATOM	8143	C1*	A	A	389	124.993	65.638	13.202	1.00	47.79	A16S
ATOM	8144	N9	A	A	389	124.477	65.255	14.525	1.00	53.12	A16S
ATOM	8145	C4	A	A	389	123.455	65.878	15.204	1.00	53.12	A16S
ATOM	8146	N3	A	A	389	122.743	66.942	14.807	1.00	53.12	A16S
ATOM	8147	C2	A	A	389	121.852	67.281	15.728	1.00	53.12	A16S
ATOM	8148	N1	A	A	389	121.596	66.716	16.903	1.00	53.12	A16S
ATOM	8149	C6	A	A	389	122.321	65.644	17.272	1.00	53.12	A16S
ATOM	8150	N6	A	A	389	122.048	65.068	18.445	1.00	53.12	A16S
ATOM	8151	C5	A	A	389	123.317	65.196	16.392	1.00	53.12	A16S
ATOM	8152	N7	A	A	389	124.236	64.165	16.472	1.00	53.12	A16S
ATOM	8153	C8	A	A	389	124.894	64.238	15.341	1.00	53.12	A16S
ATOM	8154	C2*	A	A	389	125.682	67.008	13.196	1.00	47.79	A16S
ATOM	8155	O2*	A	A	389	125.423	67.650	11.952	1.00	47.79	A16S

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ATOM	8156	C3*	A	A 389	127.155	66.635	13.259	1.00	47.79	A16S
ATOM	8157	O3*	A	A 389	127.831	67.706	12.644	1.00	47.79	A16S
ATOM	8158	P	C	A 390	128.362	68.934	13.537	1.00	59.82	A16S
ATOM	8159	O1P	C	A 390	128.368	70.138	12.662	1.00	51.55	A16S
ATOM	8160	O2P	C	A 390	129.623	68.491	14.198	1.00	51.55	A16S
ATOM	8161	O5*	C	A 390	127.269	69.142	14.680	1.00	59.82	A16S
ATOM	8162	C5*	C	A 390	126.141	70.022	14.490	1.00	59.82	A16S
ATOM	8163	C4*	C	A 390	125.195	69.915	15.663	1.00	59.82	A16S
ATOM	8164	O4*	C	A 390	124.912	68.508	15.880	1.00	59.82	A16S
ATOM	8165	C1*	C	A 390	124.795	68.249	17.265	1.00	59.82	A16S
ATOM	8166	N1	C	A 390	125.890	67.338	17.664	1.00	51.55	A16S
ATOM	8167	C6	C	A 390	127.099	67.376	17.030	1.00	51.55	A16S
ATOM	8168	C2	C	A 390	125.688	66.459	18.732	1.00	51.55	A16S
ATOM	8169	O2	C	A 390	124.568	66.389	19.248	1.00	51.55	A16S
ATOM	8170	N3	C	A 390	126.716	65.698	19.171	1.00	51.55	A16S
ATOM	8171	C4	C	A 390	127.896	65.766	18.565	1.00	51.55	A16S
ATOM	8172	N4	C	A 390	128.881	65.010	19.036	1.00	51.55	A16S
ATOM	8173	C5	C	A 390	128.119	66.616	17.446	1.00	51.55	A16S
ATOM	8174	C2*	C	A 390	124.879	69.600	17.986	1.00	59.82	A16S
ATOM	8175	O2*	C	A 390	123.570	70.130	18.124	1.00	59.82	A16S
ATOM	8176	C3*	C	A 390	125.708	70.420	17.009	1.00	59.82	A16S
ATOM	8177	O3*	C	A 390	125.437	71.809	17.156	1.00	59.82	A16S
ATOM	8178	P	G	A 391	126.450	72.764	17.967	1.00	49.32	A16S
ATOM	8179	O1P	G	A 391	126.009	74.135	17.642	1.00	65.29	A16S
ATOM	8180	O2P	G	A 391	127.860	72.376	17.748	1.00	65.29	A16S
ATOM	8181	O5*	G	A 391	126.087	72.532	19.490	1.00	49.32	A16S
ATOM	8182	C5*	G	A 391	124.787	72.899	19.970	1.00	49.32	A16S
ATOM	8183	C4*	G	A 391	124.569	72.349	21.350	1.00	49.32	A16S
ATOM	8184	O4*	G	A 391	124.559	70.900	21.311	1.00	49.32	A16S
ATOM	8185	C1*	G	A 391	125.233	70.394	22.447	1.00	49.32	A16S
ATOM	8186	N9	G	A 391	126.367	69.593	21.990	1.00	65.29	A16S
ATOM	8187	C4	G	A 391	127.087	68.705	22.748	1.00	65.29	A16S
ATOM	8188	N3	G	A 391	126.877	68.429	24.048	1.00	65.29	A16S
ATOM	8189	C2	G	A 391	127.723	67.531	24.505	1.00	65.29	A16S
ATOM	8190	N2	G	A 391	127.648	67.149	25.788	1.00	65.29	A16S
ATOM	8191	N1	G	A 391	128.700	66.947	23.743	1.00	65.29	A16S
ATOM	8192	C6	G	A 391	128.935	67.217	22.401	1.00	65.29	A16S
ATOM	8193	O6	G	A 391	129.851	66.639	21.807	1.00	65.29	A16S
ATOM	8194	C5	G	A 391	128.032	68.178	21.900	1.00	65.29	A16S
ATOM	8195	N7	G	A 391	127.915	68.726	20.631	1.00	65.29	A16S
ATOM	8196	C8	G	A 391	126.917	69.562	20.731	1.00	65.29	A16S
ATOM	8197	C2*	G	A 391	125.637	71.583	23.324	1.00	49.32	A16S
ATOM	8198	O2*	G	A 391	124.647	71.834	24.308	1.00	49.32	A16S
ATOM	8199	C3*	G	A 391	125.687	72.703	22.302	1.00	49.32	A16S
ATOM	8200	O3*	G	A 391	125.475	73.972	22.871	1.00	49.32	A16S
ATOM	8201	P	G	A 392	126.740	74.861	23.246	1.00	48.09	A16S
ATOM	8202	O1P	G	A 392	126.260	76.233	23.568	1.00	65.12	A16S
ATOM	8203	O2P	G	A 392	127.740	74.654	22.157	1.00	65.12	A16S
ATOM	8204	O5*	G	A 392	127.276	74.172	24.573	1.00	48.09	A16S
ATOM	8205	C5*	G	A 392	128.677	73.986	24.799	1.00	48.09	A16S
ATOM	8206	C4*	G	A 392	128.878	72.878	25.792	1.00	48.09	A16S
ATOM	8207	O4*	G	A 392	128.512	71.609	25.181	1.00	48.09	A16S
ATOM	8208	C1*	G	A 392	129.323	70.574	25.721	1.00	48.09	A16S
ATOM	8209	N9	G	A 392	130.105	69.957	24.649	1.00	65.12	A16S
ATOM	8210	C4	G	A 392	130.993	68.918	24.800	1.00	65.12	A16S
ATOM	8211	N3	G	A 392	131.261	68.268	25.951	1.00	65.12	A16S
ATOM	8212	C2	G	A 392	132.183	67.343	25.790	1.00	65.12	A16S
ATOM	8213	N2	G	A 392	132.564	66.596	26.828	1.00	65.12	A16S
ATOM	8214	N1	G	A 392	132.798	67.078	24.599	1.00	65.12	A16S
ATOM	8215	C6	G	A 392	132.536	67.730	23.402	1.00	65.12	A16S
ATOM	8216	O6	G	A 392	133.150	67.409	22.383	1.00	65.12	A16S
ATOM	8217	C5	G	A 392	131.544	68.723	23.557	1.00	65.12	A16S
ATOM	8218	N7	G	A 392	130.995	69.597	22.632	1.00	65.12	A16S
ATOM	8219	C8	G	A 392	130.141	70.303	23.321	1.00	65.12	A16S
ATOM	8220	C2*	G	A 392	130.254	71.217	26.752	1.00	48.09	A16S
ATOM	8221	O2*	G	A 392	129.683	71.096	28.038	1.00	48.09	A16S
ATOM	8222	C3*	G	A 392	130.297	72.656	26.269	1.00	48.09	A16S
ATOM	8223	O3*	G	A 392	130.655	73.553	27.298	1.00	48.09	A16S
ATOM	8224	P	A	A 393	132.070	74.301	27.218	1.00	54.86	A16S
ATOM	8225	O1P	A	A 393	131.985	75.594	27.965	1.00	72.97	A16S
ATOM	8226	O2P	A	A 393	132.484	74.301	25.799	1.00	72.97	A16S
ATOM	8227	O5*	A	A 393	133.065	73.320	27.973	1.00	54.86	A16S
ATOM	8228	C5*	A	A 393	132.938	73.085	29.376	1.00	54.86	A16S
ATOM	8229	C4*	A	A 393	133.660	71.820	29.746	1.00	54.86	A16S
ATOM	8230	O4*	A	A 393	133.070	70.727	29.004	1.00	54.86	A16S
ATOM	8231	C1*	A	A 393	134.076	69.809	28.625	1.00	54.86	A16S
ATOM	8232	N9	A	A 393	134.177	69.813	27.168	1.00	72.97	A16S

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ATOM	8233	C4	A	A 393	135.071	69.074	26.438	1.00	72.97	A16S
ATOM	8234	N3	A	A 393	135.990	68.219	26.914	1.00	72.97	A16S
ATOM	8235	C2	A	A 393	136.674	67.677	25.917	1.00	72.97	A16S
ATOM	8236	N1	A	A 393	136.559	67.886	24.597	1.00	72.97	A16S
ATOM	8237	C6	A	A 393	135.630	68.759	24.159	1.00	72.97	A16S
ATOM	8238	N6	A	A 393	135.524	68.974	22.849	1.00	72.97	A16S
ATOM	8239	C5	A	A 393	134.833	69.392	25.118	1.00	72.97	A16S
ATOM	8240	N7	A	A 393	133.803	70.312	25.013	1.00	72.97	A16S
ATOM	8241	C8	A	A 393	133.449	70.530	26.253	1.00	72.97	A16S
ATOM	8242	C2*	A	A 393	135.385	70.286	29.244	1.00	54.86	A16S
ATOM	8243	O2*	A	A 393	135.559	69.684	30.509	1.00	54.86	A16S
ATOM	8244	C3*	A	A 393	135.130	71.773	29.370	1.00	54.86	A16S
ATOM	8245	O4*	A	A 393	135.963	72.324	30.360	1.00	54.86	A16S
ATOM	8246	P	G	A 394	137.429	72.823	29.952	1.00	59.74	A16S
ATOM	8247	O1P	G	A 394	138.155	73.199	31.200	1.00	69.36	A16S
ATOM	8248	O2P	G	A 394	137.259	73.826	28.865	1.00	69.36	A16S
ATOM	8249	O5*	G	A 394	138.121	71.531	29.321	1.00	59.74	A16S
ATOM	8250	C5*	G	A 394	138.371	70.355	30.117	1.00	59.74	A16S
ATOM	8251	C4*	G	A 394	139.382	69.458	29.438	1.00	59.74	A16S
ATOM	8252	O4*	G	A 394	138.809	68.825	28.261	1.00	59.74	A16S
ATOM	8253	C1*	G	A 394	139.819	68.660	27.272	1.00	59.74	A16S
ATOM	8254	N9	G	A 394	139.390	69.317	26.036	1.00	69.36	A16S
ATOM	8255	C4	G	A 394	139.951	69.151	24.792	1.00	69.36	A16S
ATOM	8256	N3	G	A 394	141.019	68.387	24.508	1.00	69.36	A16S
ATOM	8257	C2	G	A 394	141.323	68.426	23.225	1.00	69.36	A16S
ATOM	8258	N2	G	A 394	142.381	67.732	22.765	1.00	69.36	A16S
ATOM	8259	N1	G	A 394	140.625	69.148	22.293	1.00	69.36	A16S
ATOM	8260	C6	G	A 394	139.524	69.939	22.557	1.00	69.36	A16S
ATOM	8261	O6	G	A 394	138.973	70.547	21.629	1.00	69.36	A16S
ATOM	8262	C5	G	A 394	139.192	69.919	23.938	1.00	69.36	A16S
ATOM	8263	N7	G	A 394	138.187	70.574	24.632	1.00	69.36	A16S
ATOM	8264	C8	G	A 394	138.347	70.196	25.871	1.00	69.36	A16S
ATOM	8265	C2*	G	A 394	141.131	69.210	27.840	1.00	59.74	A16S
ATOM	8266	O2*	G	A 394	141.921	68.143	28.326	1.00	59.74	A16S
ATOM	8267	C3*	G	A 394	140.623	70.157	28.923	1.00	59.74	A16S
ATOM	8268	O3*	G	A 394	141.557	70.416	29.950	1.00	59.74	A16S
ATOM	8269	P	C	A 395	142.402	71.780	29.904	1.00	54.02	A16S
ATOM	8270	O1P	C	A 395	143.197	71.913	31.161	1.00	56.58	A16S
ATOM	8271	O2P	C	A 395	141.472	72.875	29.503	1.00	56.58	A16S
ATOM	8272	O5*	C	A 395	143.426	71.502	28.717	1.00	54.02	A16S
ATOM	8273	C5*	C	A 395	144.375	70.429	28.829	1.00	54.02	A16S
ATOM	8274	C4*	C	A 395	145.142	70.270	27.550	1.00	54.02	A16S
ATOM	8275	O4*	C	A 395	144.269	69.773	26.511	1.00	54.02	A16S
ATOM	8276	C1*	C	A 395	144.671	70.308	25.263	1.00	54.02	A16S
ATOM	8277	N1	C	A 395	143.531	71.008	24.659	1.00	56.58	A16S
ATOM	8278	C6	C	A 395	142.504	71.477	25.428	1.00	56.58	A16S
ATOM	8279	C2	C	A 395	143.516	71.191	23.267	1.00	56.58	A16S
ATOM	8280	O2	C	A 395	144.457	70.755	22.589	1.00	56.58	A16S
ATOM	8281	N3	C	A 395	142.482	71.840	22.697	1.00	56.58	A16S
ATOM	8282	C4	C	A 395	141.487	72.298	23.454	1.00	56.58	A16S
ATOM	8283	N4	C	A 395	140.486	72.939	22.841	1.00	56.58	A16S
ATOM	8284	C5	C	A 395	141.472	72.121	24.873	1.00	56.58	A16S
ATOM	8285	C2*	C	A 395	145.871	71.222	25.502	1.00	54.02	A16S
ATOM	8286	O2*	C	A 395	147.049	70.507	25.196	1.00	54.02	A16S
ATOM	8287	C3*	C	A 395	145.717	71.548	26.982	1.00	54.02	A16S
ATOM	8288	O3*	C	A 395	146.937	71.873	27.612	1.00	54.02	A16S
ATOM	8289	P	G	A 396	147.353	73.415	27.766	1.00	56.42	A16S
ATOM	8290	O1P	G	A 396	148.632	73.469	28.533	1.00	54.92	A16S
ATOM	8291	O2P	G	A 396	146.178	74.209	28.226	1.00	54.92	A16S
ATOM	8292	O5*	G	A 396	147.661	73.847	26.271	1.00	56.42	A16S
ATOM	8293	C5*	G	A 396	148.805	73.322	25.595	1.00	56.42	A16S
ATOM	8294	C4*	G	A 396	148.979	74.019	24.282	1.00	56.42	A16S
ATOM	8295	O4*	G	A 396	147.985	73.554	23.345	1.00	56.42	A16S
ATOM	8296	C1*	G	A 396	147.628	74.609	22.480	1.00	56.42	A16S
ATOM	8297	N9	G	A 396	146.186	74.767	22.533	1.00	54.92	A16S
ATOM	8298	C4	G	A 396	145.368	75.151	21.506	1.00	54.92	A16S
ATOM	8299	N3	G	A 396	145.763	75.491	20.268	1.00	54.92	A16S
ATOM	8300	C2	G	A 396	144.738	75.811	19.494	1.00	54.92	A16S
ATOM	8301	N2	G	A 396	144.947	76.209	18.225	1.00	54.92	A16S
ATOM	8302	N1	G	A 396	143.431	75.775	19.902	1.00	54.92	A16S
ATOM	8303	C6	G	A 396	143.005	75.424	21.173	1.00	54.92	A16S
ATOM	8304	O6	G	A 396	141.797	75.422	21.440	1.00	54.92	A16S
ATOM	8305	C5	G	A 396	144.094	75.100	22.015	1.00	54.92	A16S
ATOM	8306	N7	G	A 396	144.112	74.714	23.345	1.00	54.92	A16S
ATOM	8307	C8	G	A 396	145.375	74.534	23.610	1.00	54.92	A16S
ATOM	8308	C2*	G	A 396	148.415	75.847	22.897	1.00	56.42	A16S
ATOM	8309	O2*	G	A 396	149.559	75.892	22.085	1.00	56.42	A16S

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ATOM	8310	C3*	G	A	396	148.788	75.520	24.335	1.00	56.42	A16S
ATOM	8311	O3*	G	A	396	149.988	76.156	24.757	1.00	56.42	A16S
ATOM	8312	P	A	A	397	149.946	77.187	25.993	1.00	62.86	A16S
ATOM	8313	O1P	A	A	397	151.366	77.506	26.348	1.00	51.27	A16S
ATOM	8314	O2P	A	A	397	149.033	76.623	27.029	1.00	51.27	A16S
ATOM	8315	O5*	A	A	397	149.248	78.483	25.378	1.00	62.86	A16S
ATOM	8316	C5*	A	A	397	149.895	79.200	24.326	1.00	62.86	A16S
ATOM	8317	C4*	A	A	397	149.032	80.322	23.822	1.00	62.86	A16S
ATOM	8318	O4*	A	A	397	148.860	81.315	24.863	1.00	62.86	A16S
ATOM	8319	C1*	A	A	397	148.934	82.617	24.297	1.00	62.86	A16S
ATOM	8320	N9	A	A	397	150.033	83.353	24.940	1.00	51.27	A16S
ATOM	8321	C4	A	A	397	151.359	83.001	25.024	1.00	51.27	A16S
ATOM	8322	N3	A	A	397	151.948	81.909	24.516	1.00	51.27	A16S
ATOM	8323	C2	A	A	397	153.247	81.894	24.814	1.00	51.27	A16S
ATOM	8324	N1	A	A	397	153.967	82.775	25.515	1.00	51.27	A16S
ATOM	8325	C6	A	A	397	153.342	83.858	26.015	1.00	51.27	A16S
ATOM	8326	N6	A	A	397	154.057	84.731	26.723	1.00	51.27	A16S
ATOM	8327	C5	A	A	397	151.969	83.998	25.759	1.00	51.27	A16S
ATOM	8328	N7	A	A	397	151.054	84.976	26.112	1.00	51.27	A16S
ATOM	8329	C8	A	A	397	149.927	84.550	25.603	1.00	51.27	A16S
ATOM	8330	C2*	A	A	397	149.096	82.465	22.783	1.00	62.86	A16S
ATOM	8331	O2*	A	A	397	147.837	82.506	22.134	1.00	62.86	A16S
ATOM	8332	C3*	A	A	397	149.716	81.085	22.699	1.00	62.86	A16S
ATOM	8333	O3*	A	A	397	149.522	80.454	21.458	1.00	62.86	A16S
ATOM	8334	P	C	A	398	150.426	79.189	21.090	1.00	57.84	A16S
ATOM	8335	O1P	C	A	398	149.780	78.069	21.767	1.00	54.60	A16S
ATOM	8336	O2P	C	A	398	151.854	79.497	21.376	1.00	54.60	A16S
ATOM	8337	O5*	C	A	398	150.208	79.019	19.527	1.00	57.84	A16S
ATOM	8338	C5*	C	A	398	150.626	80.047	18.611	1.00	57.84	A16S
ATOM	8339	C4*	C	A	398	149.456	80.537	17.792	1.00	57.84	A16S
ATOM	8340	O4*	C	A	398	148.446	79.493	17.716	1.00	57.84	A16S
ATOM	8341	C1*	C	A	398	147.158	80.076	17.660	1.00	57.84	A16S
ATOM	8342	N1	C	A	398	146.400	79.682	18.860	1.00	54.60	A16S
ATOM	8343	C6	C	A	398	147.009	79.599	20.082	1.00	54.60	A16S
ATOM	8344	C2	C	A	398	145.030	79.409	18.735	1.00	54.60	A16S
ATOM	8345	O2	C	A	398	144.503	79.468	17.610	1.00	54.60	A16S
ATOM	8346	N3	C	A	398	144.315	79.080	19.839	1.00	54.60	A16S
ATOM	8347	C4	C	A	398	144.923	78.995	21.024	1.00	54.60	A16S
ATOM	8348	N4	C	A	398	144.189	78.634	22.079	1.00	54.60	A16S
ATOM	8349	C5	C	A	398	146.317	79.265	21.179	1.00	54.60	A16S
ATOM	8350	C2*	C	A	398	147.353	81.586	17.618	1.00	57.84	A16S
ATOM	8351	O2*	C	A	398	147.426	81.968	16.259	1.00	57.84	A16S
ATOM	8352	C3*	C	A	398	148.693	81.737	18.322	1.00	57.84	A16S
ATOM	8353	O3*	C	A	398	149.320	82.957	17.970	1.00	57.84	A16S
ATOM	8354	P	G	A	399	148.891	84.316	18.718	1.00	48.91	A16S
ATOM	8355	O1P	G	A	399	149.782	85.386	18.190	1.00	56.81	A16S
ATOM	8356	O2P	G	A	399	148.857	84.056	20.188	1.00	56.81	A16S
ATOM	8357	O5*	G	A	399	147.408	84.593	18.191	1.00	48.91	A16S
ATOM	8358	C5*	G	A	399	147.177	84.923	16.808	1.00	48.91	A16S
ATOM	8359	C4*	G	A	399	145.766	85.428	16.597	1.00	48.91	A16S
ATOM	8360	O4*	G	A	399	144.820	84.338	16.685	1.00	48.91	A16S
ATOM	8361	C1*	G	A	399	143.611	84.809	17.250	1.00	48.91	A16S
ATOM	8362	N9	G	A	399	143.399	84.119	18.519	1.00	56.81	A16S
ATOM	8363	C4	G	A	399	142.199	83.956	19.148	1.00	56.81	A16S
ATOM	8364	N3	G	A	399	141.012	84.411	18.703	1.00	56.81	A16S
ATOM	8365	C2	G	A	399	140.023	84.078	19.509	1.00	56.81	A16S
ATOM	8366	N2	G	A	399	138.772	84.454	19.209	1.00	56.81	A16S
ATOM	8367	N1	G	A	399	140.189	83.351	20.663	1.00	56.81	A16S
ATOM	8368	C6	G	A	399	141.406	82.867	21.137	1.00	56.81	A16S
ATOM	8369	O6	G	A	399	141.444	82.195	22.180	1.00	56.81	A16S
ATOM	8370	C5	G	A	399	142.475	83.231	20.286	1.00	56.81	A16S
ATOM	8371	N7	G	A	399	143.833	82.963	20.383	1.00	56.81	A16S
ATOM	8372	C8	G	A	399	144.342	83.510	19.315	1.00	56.81	A16S
ATOM	8373	C2*	G	A	399	143.743	86.318	17.467	1.00	48.91	A16S
ATOM	8374	O2*	G	A	399	143.171	87.011	16.375	1.00	48.91	A16S
ATOM	8375	C3*	G	A	399	145.253	86.484	17.570	1.00	48.91	A16S
ATOM	8376	O3*	G	A	399	145.660	87.795	17.184	1.00	48.91	A16S
ATOM	8377	P	C	A	400	145.698	88.977	18.270	1.00	52.40	A16S
ATOM	8378	O1P	C	A	400	146.316	90.160	17.579	1.00	56.51	A16S
ATOM	8379	O2P	C	A	400	146.297	88.473	19.535	1.00	56.51	A16S
ATOM	8380	O5*	C	A	400	144.154	89.252	18.539	1.00	52.40	A16S
ATOM	8381	C5*	C	A	400	143.301	89.696	17.481	1.00	52.40	A16S
ATOM	8382	C4*	C	A	400	141.888	89.820	17.976	1.00	52.40	A16S
ATOM	8383	O4*	C	A	400	141.334	88.499	18.193	1.00	52.40	A16S
ATOM	8384	C1*	C	A	400	140.473	88.519	19.324	1.00	52.40	A16S
ATOM	8385	N1	C	A	400	141.036	87.621	20.349	1.00	56.51	A16S
ATOM	8386	C6	C	A	400	142.390	87.491	20.486	1.00	56.51	A16S

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ATOM	8387	C2	C	A	400	140.172	86.910	21.190	1.00	56.51	A16S
ATOM	8388	O2	C	A	400	138.942	87.033	21.041	1.00	56.51	A16S
ATOM	8389	N3	C	A	400	140.698	86.108	22.140	1.00	56.51	A16S
ATOM	8390	C4	C	A	400	142.022	85.996	22.262	1.00	56.51	A16S
ATOM	8391	N4	C	A	400	142.504	85.197	23.210	1.00	56.51	A16S
ATOM	8392	C5	C	A	400	142.916	86.699	21.417	1.00	56.51	A16S
ATOM	8393	C2*	C	A	400	140.410	89.962	19.831	1.00	52.40	A16S
ATOM	8394	O2*	C	A	400	139.272	90.627	19.311	1.00	52.40	A16S
ATOM	8395	C3*	C	A	400	141.726	90.524	19.311	1.00	52.40	A16S
ATOM	8396	O3*	C	A	400	141.689	91.932	19.199	1.00	52.40	A16S
ATOM	8397	P	C	A	401	142.091	92.826	20.471	1.00	51.60	A16S
ATOM	8398	O1P	C	A	401	141.954	94.247	20.059	1.00	61.41	A16S
ATOM	8399	O2P	C	A	401	143.398	92.330	20.988	1.00	61.41	A16S
ATOM	8400	O5*	C	A	401	140.953	92.508	21.543	1.00	51.60	A16S
ATOM	8401	C5*	C	A	401	139.605	92.966	21.333	1.00	51.60	A16S
ATOM	8402	C4*	C	A	401	138.749	92.675	22.542	1.00	51.60	A16S
ATOM	8403	O4*	C	A	401	138.498	91.247	22.630	1.00	51.60	A16S
ATOM	8404	C1*	C	A	401	138.466	90.852	23.995	1.00	51.60	A16S
ATOM	8405	N1	C	A	401	139.602	89.936	24.262	1.00	61.41	A16S
ATOM	8406	C6	C	A	401	140.784	90.065	23.587	1.00	61.41	A16S
ATOM	8407	C2	C	A	401	139.461	88.941	25.242	1.00	61.41	A16S
ATOM	8408	O2	C	A	401	138.375	88.817	25.822	1.00	61.41	A16S
ATOM	8409	N3	C	A	401	140.512	88.139	25.528	1.00	61.41	A16S
ATOM	8410	C4	C	A	401	141.660	88.289	24.874	1.00	61.41	A16S
ATOM	8411	N4	C	A	401	142.667	87.488	25.196	1.00	61.41	A16S
ATOM	8412	C5	C	A	401	141.826	89.272	23.862	1.00	61.41	A16S
ATOM	8413	C2*	C	A	401	138.579	92.125	24.833	1.00	51.60	A16S
ATOM	8414	O2*	C	A	401	137.290	92.645	25.082	1.00	51.60	A16S
ATOM	8415	C3*	C	A	401	139.345	93.037	23.894	1.00	51.60	A16S
ATOM	8416	O3*	C	A	401	139.183	94.400	24.254	1.00	51.60	A16S
ATOM	8417	P	G	A	402	140.151	95.039	25.380	1.00	53.59	A16S
ATOM	8418	O1P	G	A	402	139.867	96.503	25.395	1.00	62.65	A16S
ATOM	8419	O2P	G	A	402	141.548	94.571	25.158	1.00	62.65	A16S
ATOM	8420	O5*	G	A	402	139.632	94.391	26.746	1.00	53.59	A16S
ATOM	8421	C5*	G	A	402	138.291	94.632	27.204	1.00	53.59	A16S
ATOM	8422	C4*	G	A	402	137.975	93.777	28.402	1.00	53.59	A16S
ATOM	8423	O4*	G	A	402	137.973	92.373	28.032	1.00	53.59	A16S
ATOM	8424	C1*	G	A	402	138.431	91.582	29.125	1.00	53.59	A16S
ATOM	8425	N9	G	A	402	139.666	90.897	28.732	1.00	62.65	A16S
ATOM	8426	C4	G	A	402	140.340	89.928	29.448	1.00	62.65	A16S
ATOM	8427	N3	G	A	402	139.947	89.386	30.616	1.00	62.65	A16S
ATOM	8428	C2	G	A	402	140.829	88.513	31.079	1.00	62.65	A16S
ATOM	8429	N2	G	A	402	140.594	87.872	32.228	1.00	62.65	A16S
ATOM	8430	N1	G	A	402	142.005	88.207	30.451	1.00	62.65	A16S
ATOM	8431	C6	G	A	402	142.435	88.761	29.251	1.00	62.65	A16S
ATOM	8432	O6	G	A	402	143.540	88.441	28.784	1.00	62.65	A16S
ATOM	8433	C5	G	A	402	141.488	89.678	28.732	1.00	62.65	A16S
ATOM	8434	N7	G	A	402	141.514	90.424	27.567	1.00	62.65	A16S
ATOM	8435	C8	G	A	402	140.414	91.125	27.604	1.00	62.65	A16S
ATOM	8436	C2*	G	A	402	138.679	92.545	30.288	1.00	53.59	A16S
ATOM	8437	O2*	G	A	402	137.517	92.617	31.091	1.00	53.59	A16S
ATOM	8438	C3*	G	A	402	138.952	93.849	29.554	1.00	53.59	A16S
ATOM	8439	O3*	G	A	402	138.742	94.978	30.371	1.00	53.59	A16S
ATOM	8440	P	C	A	403	140.009	95.713	31.031	1.00	54.24	A16S
ATOM	8441	O1P	C	A	403	139.466	96.890	31.762	1.00	73.21	A16S
ATOM	8442	O2P	C	A	403	141.050	95.910	29.993	1.00	73.21	A16S
ATOM	8443	O5*	C	A	403	140.561	94.651	32.085	1.00	54.24	A16S
ATOM	8444	C5*	C	A	403	139.713	94.163	33.143	1.00	54.24	A16S
ATOM	8445	C4*	C	A	403	140.459	93.198	34.036	1.00	54.24	A16S
ATOM	8446	O4*	C	A	403	140.638	91.919	33.373	1.00	54.24	A16S
ATOM	8447	C1*	C	A	403	141.800	91.279	33.892	1.00	54.24	A16S
ATOM	8448	N1	C	A	403	142.745	90.954	32.802	1.00	73.21	A16S
ATOM	8449	C6	C	A	403	142.848	91.742	31.689	1.00	73.21	A16S
ATOM	8450	C2	C	A	403	143.581	89.832	32.951	1.00	73.21	A16S
ATOM	8451	O2	C	A	403	143.428	89.093	33.933	1.00	73.21	A16S
ATOM	8452	N3	C	A	403	144.527	89.582	32.019	1.00	73.21	A16S
ATOM	8453	C4	C	A	403	144.644	90.383	30.959	1.00	73.21	A16S
ATOM	8454	N4	C	A	403	145.612	90.118	30.080	1.00	73.21	A16S
ATOM	8455	C5	C	A	403	143.777	91.496	30.754	1.00	73.21	A16S
ATOM	8456	C2*	C	A	403	142.452	92.235	34.892	1.00	54.24	A16S
ATOM	8457	O2*	C	A	403	142.104	91.856	36.209	1.00	54.24	A16S
ATOM	8458	C3*	C	A	403	141.865	93.577	34.471	1.00	54.24	A16S
ATOM	8459	O3*	C	A	403	141.916	94.509	35.534	1.00	54.24	A16S
ATOM	8460	P	U	A	404	143.308	95.240	35.861	1.00	60.69	A16S
ATOM	8461	O1P	U	A	404	143.029	96.401	36.737	1.00	65.79	A16S
ATOM	8462	O2P	U	A	404	144.005	95.445	34.567	1.00	65.79	A16S
ATOM	8463	O5*	U	A	404	144.137	94.168	36.706	1.00	60.69	A16S

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ATOM	8464	C5*	U	A	404	143.606	93.633	37.941	1.00	60.69	A16S
ATOM	8465	C4*	U	A	404	144.519	92.565	38.514	1.00	60.69	A16S
ATOM	8466	O4*	U	A	404	144.589	91.413	37.635	1.00	60.69	A16S
ATOM	8467	C1*	U	A	404	145.872	90.811	37.736	1.00	60.69	A16S
ATOM	8468	N1	U	A	404	146.496	90.778	36.402	1.00	65.79	A16S
ATOM	8469	C6	U	A	404	145.879	91.332	35.301	1.00	65.79	A16S
ATOM	8470	C2	U	A	404	147.751	90.188	36.287	1.00	65.79	A16S
ATOM	8471	O2	U	A	404	148.318	89.641	37.215	1.00	65.79	A16S
ATOM	8472	N3	U	A	404	148.313	90.259	35.038	1.00	65.79	A16S
ATOM	8473	C4	U	A	404	147.767	90.826	33.908	1.00	65.79	A16S
ATOM	8474	O4	U	A	404	148.455	90.921	32.889	1.00	65.79	A16S
ATOM	8475	C5	U	A	404	146.454	91.370	34.091	1.00	65.79	A16S
ATOM	8476	C2*	U	A	404	146.694	91.627	38.739	1.00	60.69	A16S
ATOM	8477	O2*	U	A	404	146.703	90.982	39.994	1.00	60.69	A16S
ATOM	8478	C3*	U	A	404	145.964	92.964	38.732	1.00	60.69	A16S
ATOM	8479	O3*	U	A	404	146.124	93.659	39.953	1.00	60.69	A16S
ATOM	8480	P	U	A	405	147.186	94.856	40.044	1.00	59.25	A16S
ATOM	8481	O1P	U	A	405	146.888	95.615	41.297	1.00	70.27	A16S
ATOM	8482	O2P	U	A	405	147.187	95.567	38.733	1.00	70.27	A16S
ATOM	8483	O5*	U	A	405	148.570	94.096	40.243	1.00	59.25	A16S
ATOM	8484	C5*	U	A	405	148.753	93.234	41.374	1.00	59.25	A16S
ATOM	8485	C4*	U	A	405	149.977	92.376	41.196	1.00	59.25	A16S
ATOM	8486	O4*	U	A	405	149.808	91.538	40.031	1.00	59.25	A16S
ATOM	8487	C1*	U	A	405	151.063	91.336	39.415	1.00	59.25	A16S
ATOM	8488	N1	U	A	405	150.964	91.703	37.992	1.00	70.27	A16S
ATOM	8489	C6	U	A	405	149.965	92.520	37.526	1.00	70.27	A16S
ATOM	8490	C2	U	A	405	151.901	91.169	37.124	1.00	70.27	A16S
ATOM	8491	O2	U	A	405	152.841	90.488	37.497	1.00	70.27	A16S
ATOM	8492	N3	U	A	405	151.704	91.468	35.800	1.00	70.27	A16S
ATOM	8493	C4	U	A	405	150.705	92.242	35.265	1.00	70.27	A16S
ATOM	8494	O4	U	A	405	150.593	92.320	34.039	1.00	70.27	A16S
ATOM	8495	C5	U	A	405	149.809	92.802	36.229	1.00	70.27	A16S
ATOM	8496	C2*	U	A	405	152.128	92.076	40.231	1.00	59.25	A16S
ATOM	8497	O2*	U	A	405	152.750	91.140	41.097	1.00	59.25	A16S
ATOM	8498	C3*	U	A	405	151.293	93.107	40.984	1.00	59.25	A16S
ATOM	8499	O3*	U	A	405	151.876	93.413	42.249	1.00	59.25	A16S
ATOM	8500	P	G	A	406	152.892	94.654	42.398	1.00	69.22	A16S
ATOM	8501	O1P	G	A	406	153.717	94.766	41.168	1.00	74.82	A16S
ATOM	8502	O2P	G	A	406	153.561	94.461	43.704	1.00	74.82	A16S
ATOM	8503	O5*	G	A	406	151.939	95.931	42.511	1.00	69.22	A16S
ATOM	8504	C5*	G	A	406	151.045	96.266	41.437	1.00	69.22	A16S
ATOM	8505	C4*	G	A	406	149.725	96.794	41.960	1.00	69.22	A16S
ATOM	8506	O4*	G	A	406	149.210	95.937	43.012	1.00	69.22	A16S
ATOM	8507	C1*	G	A	406	148.409	96.702	43.901	1.00	69.22	A16S
ATOM	8508	N9	G	A	406	148.960	96.610	45.253	1.00	74.82	A16S
ATOM	8509	C4	G	A	406	148.347	97.032	46.420	1.00	74.82	A16S
ATOM	8510	N3	G	A	406	147.109	97.573	46.523	1.00	74.82	A16S
ATOM	8511	C2	G	A	406	146.808	97.891	47.769	1.00	74.82	A16S
ATOM	8512	N2	G	A	406	145.609	98.421	48.049	1.00	74.82	A16S
ATOM	8513	N1	G	A	406	147.661	97.709	48.830	1.00	74.82	A16S
ATOM	8514	C6	G	A	406	148.942	97.165	48.747	1.00	74.82	A16S
ATOM	8515	O6	G	A	406	149.638	97.064	49.761	1.00	74.82	A16S
ATOM	8516	C5	G	A	406	149.267	96.800	47.420	1.00	74.82	A16S
ATOM	8517	N7	G	A	406	150.420	96.221	46.905	1.00	74.82	A16S
ATOM	8518	C8	G	A	406	150.192	96.122	45.622	1.00	74.82	A16S
ATOM	8519	C2*	G	A	406	148.411	98.144	43.392	1.00	69.22	A16S
ATOM	8520	O2*	G	A	406	147.250	98.342	42.606	1.00	69.22	A16S
ATOM	8521	C3*	G	A	406	149.696	98.183	42.570	1.00	69.22	A16S
ATOM	8522	O3*	G	A	406	149.615	99.174	41.560	1.00	69.22	A16S
ATOM	8523	P	G	A	407	150.096	100.674	41.871	1.00	70.50	A16S
ATOM	8524	O1P	G	A	407	149.954	101.411	40.585	1.00	71.69	A16S
ATOM	8525	O2P	G	A	407	151.425	100.609	42.534	1.00	71.69	A16S
ATOM	8526	O5*	G	A	407	149.017	101.228	42.914	1.00	70.50	A16S
ATOM	8527	C5*	G	A	407	147.671	101.543	42.489	1.00	70.50	A16S
ATOM	8528	C4*	G	A	407	146.877	102.160	43.622	1.00	70.50	A16S
ATOM	8529	O4*	G	A	407	146.660	101.173	44.662	1.00	70.50	A16S
ATOM	8530	C1*	G	A	407	146.712	101.791	45.936	1.00	70.50	A16S
ATOM	8531	N9	G	A	407	147.800	101.177	46.690	1.00	71.69	A16S
ATOM	8532	C4	G	A	407	148.050	101.298	48.041	1.00	71.69	A16S
ATOM	8533	N3	G	A	407	147.338	102.039	48.925	1.00	71.69	A16S
ATOM	8534	C2	G	A	407	147.817	101.932	50.161	1.00	71.69	A16S
ATOM	8535	N2	G	A	407	147.226	102.588	51.168	1.00	71.69	A16S
ATOM	8536	N1	G	A	407	148.906	101.167	50.499	1.00	71.69	A16S
ATOM	8537	C6	G	A	407	149.649	100.394	49.608	1.00	71.69	A16S
ATOM	8538	O6	G	A	407	150.607	99.721	50.019	1.00	71.69	A16S
ATOM	8539	C5	G	A	407	149.150	100.500	48.279	1.00	71.69	A16S
ATOM	8540	N7	G	A	407	149.595	99.907	47.104	1.00	71.69	A16S

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ATOM	8541	C8	G	A	407	148.771	100.341	46.191	1.00	71.69	A16S
ATOM	8542	C2*	G	A	407	146.882	103.293	45.718	1.00	70.50	A16S
ATOM	8543	O2*	G	A	407	145.602	103.894	45.766	1.00	70.50	A16S
ATOM	8544	C3*	G	A	407	147.527	103.336	44.333	1.00	70.50	A16S
ATOM	8545	O3*	G	A	407	147.293	104.562	43.644	1.00	70.50	A16S
ATOM	8546	P	A	A	408	148.453	105.678	43.602	1.00	71.31	A16S
ATOM	8547	O1P	A	A	408	148.059	106.691	42.602	1.00	91.51	A16S
ATOM	8548	O2P	A	A	408	149.767	104.991	43.467	1.00	91.51	A16S
ATOM	8549	O5*	A	A	408	148.406	106.345	45.050	1.00	71.31	A16S
ATOM	8550	C5*	A	A	408	147.254	107.103	45.502	1.00	71.31	A16S
ATOM	8551	C4*	A	A	408	147.393	107.463	46.975	1.00	71.31	A16S
ATOM	8552	O4*	A	A	408	147.203	106.285	47.806	1.00	71.31	A16S
ATOM	8553	C1*	A	A	408	148.061	106.348	48.934	1.00	71.31	A16S
ATOM	8554	N9	A	A	408	149.011	105.234	48.870	1.00	91.51	A16S
ATOM	8555	C4	A	A	408	149.776	104.767	49.913	1.00	91.51	A16S
ATOM	8556	N3	A	A	408	149.781	105.207	51.183	1.00	91.51	A16S
ATOM	8557	C2	A	A	408	150.662	104.527	51.912	1.00	91.51	A16S
ATOM	8558	N1	A	A	408	151.482	103.536	51.544	1.00	91.51	A16S
ATOM	8559	C6	A	A	408	151.458	103.123	50.260	1.00	91.51	A16S
ATOM	8560	N6	A	A	408	152.288	102.147	49.889	1.00	91.51	A16S
ATOM	8561	C5	A	A	408	150.557	103.758	49.385	1.00	91.51	A16S
ATOM	8562	N7	A	A	408	150.278	103.576	48.039	1.00	91.51	A16S
ATOM	8563	C8	A	A	408	149.353	104.467	47.785	1.00	91.51	A16S
ATOM	8564	C2*	A	A	408	148.797	107.687	48.887	1.00	71.31	A16S
ATOM	8565	O2*	A	A	408	148.117	108.627	49.692	1.00	71.31	A16S
ATOM	8566	C3*	A	A	408	148.750	108.011	47.399	1.00	71.31	A16S
ATOM	8567	O3*	A	A	408	148.890	109.400	47.143	1.00	71.31	A16S
ATOM	8568	P	G	A	409	150.358	110.039	47.045	1.00	67.13	A16S
ATOM	8569	O1P	G	A	409	150.135	111.451	46.675	1.00	78.88	A16S
ATOM	8570	O2P	G	A	409	151.235	109.184	46.207	1.00	78.88	A16S
ATOM	8571	O5*	G	A	409	150.921	109.964	48.536	1.00	67.13	A16S
ATOM	8572	C5*	G	A	409	150.375	110.785	49.595	1.00	67.13	A16S
ATOM	8573	C4*	G	A	409	151.036	110.448	50.916	1.00	67.13	A16S
ATOM	8574	O4*	G	A	409	150.850	109.033	51.176	1.00	67.13	A16S
ATOM	8575	C1*	G	A	409	151.990	108.516	51.842	1.00	67.13	A16S
ATOM	8576	N9	G	A	409	152.528	107.399	51.066	1.00	78.88	A16S
ATOM	8577	C4	G	A	409	153.481	106.493	51.477	1.00	78.88	A16S
ATOM	8578	N3	G	A	409	154.094	106.474	52.678	1.00	78.88	A16S
ATOM	8579	C2	G	A	409	154.949	105.469	52.781	1.00	78.88	A16S
ATOM	8580	N2	G	A	409	155.631	105.285	53.917	1.00	78.88	A16S
ATOM	8581	N1	G	A	409	155.197	104.565	51.780	1.00	78.88	A16S
ATOM	8582	C6	G	A	409	154.587	104.567	50.532	1.00	78.88	A16S
ATOM	8583	O6	G	A	409	154.893	103.707	49.693	1.00	78.88	A16S
ATOM	8584	C5	G	A	409	153.651	105.632	50.414	1.00	78.88	A16S
ATOM	8585	N7	G	A	409	152.824	105.984	49.358	1.00	78.88	A16S
ATOM	8586	C8	G	A	409	152.181	107.036	49.787	1.00	78.88	A16S
ATOM	8587	C2*	G	A	409	152.976	109.665	52.068	1.00	67.13	A16S
ATOM	8588	O2*	G	A	409	152.798	110.157	53.380	1.00	67.13	A16S
ATOM	8589	C3*	G	A	409	152.545	110.674	51.006	1.00	67.13	A16S
ATOM	8590	O3*	G	A	409	152.848	112.014	51.427	1.00	67.13	A16S
ATOM	8591	P	G	A	410	154.204	112.744	50.924	1.00	77.60	A16S
ATOM	8592	O1P	G	A	410	154.372	113.969	51.755	1.00	111.62	A16S
ATOM	8593	O2P	G	A	410	154.134	112.874	49.450	1.00	111.62	A16S
ATOM	8594	O5*	G	A	410	155.381	111.724	51.285	1.00	77.60	A16S
ATOM	8595	C5*	G	A	410	155.761	111.492	52.653	1.00	77.60	A16S
ATOM	8596	C4*	G	A	410	156.688	110.307	52.750	1.00	77.60	A16S
ATOM	8597	O4*	G	A	410	156.000	109.105	52.316	1.00	77.60	A16S
ATOM	8598	C1*	G	A	410	156.918	108.229	51.672	1.00	77.60	A16S
ATOM	8599	N9	G	A	410	156.421	107.921	50.327	1.00	111.62	A16S
ATOM	8600	C4	G	A	410	156.829	106.884	49.502	1.00	111.62	A16S
ATOM	8601	N3	G	A	410	157.776	105.963	49.782	1.00	111.62	A16S
ATOM	8602	C2	G	A	410	157.931	105.095	48.793	1.00	111.62	A16S
ATOM	8603	N2	G	A	410	158.830	104.114	48.898	1.00	111.62	A16S
ATOM	8604	N1	G	A	410	157.218	105.122	47.627	1.00	111.62	A16S
ATOM	8605	C6	G	A	410	156.236	106.051	47.313	1.00	111.62	A16S
ATOM	8606	O6	G	A	410	155.640	105.975	46.228	1.00	111.62	A16S
ATOM	8607	C5	G	A	410	156.059	107.000	48.362	1.00	111.62	A16S
ATOM	8608	N7	G	A	410	155.197	108.085	48.457	1.00	111.62	A16S
ATOM	8609	C8	G	A	410	155.446	108.600	49.632	1.00	111.62	A16S
ATOM	8610	C2*	G	A	410	158.294	108.901	51.695	1.00	77.60	A16S
ATOM	8611	O2*	G	A	410	159.048	108.377	52.769	1.00	77.60	A16S
ATOM	8612	C3*	G	A	410	157.926	110.373	51.874	1.00	77.60	A16S
ATOM	8613	O3*	G	A	410	158.961	111.119	52.498	1.00	77.60	A16S
ATOM	8614	P	A	A	411	159.367	112.559	51.911	1.00	89.11	A16S
ATOM	8615	O1P	A	A	411	158.883	113.571	52.881	1.00	78.80	A16S
ATOM	8616	O2P	A	A	411	158.927	112.651	50.498	1.00	78.80	A16S
ATOM	8617	O5*	A	A	411	160.958	112.531	51.944	1.00	89.11	A16S

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ATOM	8618	C5*	A	A 411	161.677	112.644	53.189	1.00	89.11	A16S
ATOM	8619	C4*	A	A 411	163.126	112.977	52.923	1.00	89.11	A16S
ATOM	8620	O4*	A	A 411	163.768	111.823	52.332	1.00	89.11	A16S
ATOM	8621	C1*	A	A 411	164.657	112.240	51.312	1.00	89.11	A16S
ATOM	8622	N9	A	A 411	164.202	111.632	50.059	1.00	78.80	A16S
ATOM	8623	C4	A	A 411	164.430	110.329	49.693	1.00	78.80	A16S
ATOM	8624	N3	A	A 411	165.086	109.390	50.394	1.00	78.80	A16S
ATOM	8625	C2	A	A 411	165.119	108.246	49.725	1.00	78.80	A16S
ATOM	8626	N1	A	A 411	164.607	107.950	48.526	1.00	78.80	A16S
ATOM	8627	C6	A	A 411	163.947	108.912	47.851	1.00	78.80	A16S
ATOM	8628	N6	A	A 411	163.420	108.612	46.663	1.00	78.80	A16S
ATOM	8629	C5	A	A 411	163.845	110.179	48.450	1.00	78.80	A16S
ATOM	8630	N7	A	A 411	163.243	111.362	48.042	1.00	78.80	A16S
ATOM	8631	C8	A	A 411	163.482	112.191	49.027	1.00	78.80	A16S
ATOM	8632	C2*	A	A 411	164.689	113.772	51.301	1.00	89.11	A16S
ATOM	8633	O2*	A	A 411	165.800	114.239	52.040	1.00	89.11	A16S
ATOM	8634	C3*	A	A 411	163.345	114.112	51.932	1.00	89.11	A16S
ATOM	8635	O3*	A	A 411	163.348	115.379	52.580	1.00	89.11	A16S
ATOM	8636	P	A	A 412	162.602	116.627	51.895	1.00	120.81	A16S
ATOM	8637	O1P	A	A 412	162.453	117.677	52.935	1.00	172.61	A16S
ATOM	8638	O2P	A	A 412	161.397	116.130	51.172	1.00	172.61	A16S
ATOM	8639	O5*	A	A 412	163.648	117.147	50.815	1.00	120.81	A16S
ATOM	8640	C5*	A	A 412	165.044	117.268	51.139	1.00	120.81	A16S
ATOM	8641	C4*	A	A 412	165.878	116.932	49.932	1.00	120.81	A16S
ATOM	8642	O4*	A	A 412	165.542	117.827	48.848	1.00	120.81	A16S
ATOM	8643	C1*	A	A 412	166.644	117.917	47.976	1.00	120.81	A16S
ATOM	8644	N9	A	A 412	166.805	119.300	47.545	1.00	172.61	A16S
ATOM	8645	C4	A	A 412	166.605	119.747	46.264	1.00	172.61	A16S
ATOM	8646	N3	A	A 412	166.216	119.021	45.201	1.00	172.61	A16S
ATOM	8647	C2	A	A 412	166.137	119.785	44.116	1.00	172.61	A16S
ATOM	8648	N1	A	A 412	166.385	121.094	43.982	1.00	172.61	A16S
ATOM	8649	C6	A	A 412	166.775	121.795	45.072	1.00	172.61	A16S
ATOM	8650	N6	A	A 412	167.029	123.100	44.938	1.00	172.61	A16S
ATOM	8651	C5	A	A 412	166.894	121.098	46.287	1.00	172.61	A16S
ATOM	8652	N7	A	A 412	167.260	121.501	47.565	1.00	172.61	A16S
ATOM	8653	C8	A	A 412	167.188	120.400	48.273	1.00	172.61	A16S
ATOM	8654	C2*	A	A 412	167.868	117.295	48.657	1.00	120.81	A16S
ATOM	8655	O2*	A	A 412	168.202	116.098	47.988	1.00	120.81	A16S
ATOM	8656	C3*	A	A 412	167.382	117.078	50.092	1.00	120.81	A16S
ATOM	8657	O3*	A	A 412	167.899	115.861	50.633	1.00	120.81	A16S
ATOM	8658	P	G	A 413	169.422	115.778	51.148	1.00	106.89	A16S
ATOM	8659	O1P	G	A 413	169.467	116.332	52.526	1.00	87.62	A16S
ATOM	8660	O2P	G	A 413	170.343	116.320	50.103	1.00	87.62	A16S
ATOM	8661	O5*	G	A 413	169.673	114.213	51.264	1.00	89.27	A16S
ATOM	8662	C5*	G	A 413	169.974	113.444	50.098	1.00	89.27	A16S
ATOM	8663	C4*	G	A 413	168.928	112.380	49.883	1.00	89.27	A16S
ATOM	8664	O4*	G	A 413	167.645	112.956	49.551	1.00	89.27	A16S
ATOM	8665	C1*	G	A 413	166.944	112.066	48.705	1.00	89.27	A16S
ATOM	8666	N9	G	A 413	166.223	112.822	47.677	1.00	87.62	A16S
ATOM	8667	C4	G	A 413	165.648	112.352	46.508	1.00	87.62	A16S
ATOM	8668	N3	G	A 413	165.701	111.090	46.038	1.00	87.62	A16S
ATOM	8669	C2	G	A 413	164.998	110.950	44.919	1.00	87.62	A16S
ATOM	8670	N2	G	A 413	164.933	109.774	44.307	1.00	87.62	A16S
ATOM	8671	N1	G	A 413	164.303	111.956	44.312	1.00	87.62	A16S
ATOM	8672	C6	G	A 413	164.234	113.261	44.766	1.00	87.62	A16S
ATOM	8673	O6	G	A 413	163.569	114.095	44.133	1.00	87.62	A16S
ATOM	8674	C5	G	A 413	164.985	113.437	45.967	1.00	87.62	A16S
ATOM	8675	N7	G	A 413	165.173	114.568	46.746	1.00	87.62	A16S
ATOM	8676	C8	G	A 413	165.920	114.161	47.735	1.00	87.62	A16S
ATOM	8677	C2*	G	A 413	167.871	110.907	48.326	1.00	89.27	A16S
ATOM	8678	O2*	G	A 413	167.487	109.787	49.094	1.00	89.27	A16S
ATOM	8679	C3*	G	A 413	169.247	111.432	48.742	1.00	89.27	A16S
ATOM	8680	O3*	G	A 413	170.084	110.457	49.361	1.00	89.27	A16S
ATOM	8681	P	A	A 414	170.567	109.145	48.572	1.00	82.49	A16S
ATOM	8682	O1P	A	A 414	171.993	109.368	48.193	1.00	100.30	A16S
ATOM	8683	O2P	A	A 414	169.584	108.771	47.531	1.00	100.30	A16S
ATOM	8684	O5*	A	A 414	170.519	108.020	49.705	1.00	82.49	A16S
ATOM	8685	C5*	A	A 414	170.752	108.360	51.096	1.00	82.49	A16S
ATOM	8686	C4*	A	A 414	170.912	107.113	51.933	1.00	82.49	A16S
ATOM	8687	O4*	A	A 414	169.641	106.435	52.082	1.00	82.49	A16S
ATOM	8688	C1*	A	A 414	169.856	105.036	52.126	1.00	82.49	A16S
ATOM	8689	N9	A	A 414	169.027	104.404	51.099	1.00	100.30	A16S
ATOM	8690	C4	A	A 414	168.984	103.064	50.794	1.00	100.30	A16S
ATOM	8691	N3	A	A 414	169.703	102.077	51.353	1.00	100.30	A16S
ATOM	8692	C2	A	A 414	169.385	100.900	50.814	1.00	100.30	A16S
ATOM	8693	N1	A	A 414	168.498	100.619	49.853	1.00	100.30	A16S
ATOM	8694	C6	A	A 414	167.792	101.635	49.313	1.00	100.30	A16S

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ATOM	8695	N6	A	A	414	166.899	101.354	48.361	1.00100.30	A16S
ATOM	8696	C5	A	A	414	168.040	102.935	49.795	1.00100.30	A16S
ATOM	8697	N7	A	A	414	167.507	104.172	49.463	1.00100.30	A16S
ATOM	8698	C8	A	A	414	168.126	105.007	50.259	1.00100.30	A16S
ATOM	8699	C2*	A	A	414	171.360	104.772	51.985	1.00 82.49	A16S
ATOM	8700	O2*	A	A	414	171.918	104.522	53.257	1.00 82.49	A16S
ATOM	8701	C3*	A	A	414	171.859	106.072	51.364	1.00 82.49	A16S
ATOM	8702	O3*	A	A	414	173.195	106.368	51.747	1.00 82.49	A16S
ATOM	8703	P	A	A	415	174.402	106.075	50.729	1.00 78.61	A16S
ATOM	8704	O1P	A	A	415	175.659	106.455	51.425	1.00 99.30	A16S
ATOM	8705	O2P	A	A	415	174.077	106.688	49.412	1.00 99.30	A16S
ATOM	8706	O5*	A	A	415	174.397	104.491	50.586	1.00 78.61	A16S
ATOM	8707	C5*	A	A	415	174.626	103.668	51.734	1.00 78.61	A16S
ATOM	8708	C4*	A	A	415	174.320	102.227	51.421	1.00 78.61	A16S
ATOM	8709	O4*	A	A	415	172.901	102.068	51.147	1.00 78.61	A16S
ATOM	8710	C1*	A	A	415	172.719	101.012	50.217	1.00 78.61	A16S
ATOM	8711	N9	A	A	415	171.983	101.512	49.052	1.00 99.30	A16S
ATOM	8712	C4	A	A	415	171.265	100.730	48.176	1.00 99.30	A16S
ATOM	8713	N3	A	A	415	171.073	99.400	48.240	1.00 99.30	A16S
ATOM	8714	C2	A	A	415	170.341	98.979	47.211	1.00 99.30	A16S
ATOM	8715	N1	A	A	415	169.822	99.679	46.198	1.00 99.30	A16S
ATOM	8716	C6	A	A	415	170.035	101.011	46.157	1.00 99.30	A16S
ATOM	8717	N6	A	A	415	169.527	101.702	45.136	1.00 99.30	A16S
ATOM	8718	C5	A	A	415	170.791	101.588	47.202	1.00 99.30	A16S
ATOM	8719	N7	A	A	415	171.181	102.896	47.468	1.00 99.30	A16S
ATOM	8720	C8	A	A	415	171.877	102.798	48.576	1.00 99.30	A16S
ATOM	8721	C2*	A	A	415	174.106	100.470	49.842	1.00 78.61	A16S
ATOM	8722	O2*	A	A	415	174.395	99.307	50.592	1.00 78.61	A16S
ATOM	8723	C3*	A	A	415	175.014	101.641	50.203	1.00 78.61	A16S
ATOM	8724	O3*	A	A	415	176.349	101.223	50.480	1.00 78.61	A16S
ATOM	8725	P	G	A	416	177.485	101.394	49.352	1.00 93.51	A16S
ATOM	8726	O1P	G	A	416	178.778	100.951	49.926	1.00 83.91	A16S
ATOM	8727	O2P	G	A	416	177.372	102.758	48.784	1.00 83.91	A16S
ATOM	8728	O5*	G	A	416	177.061	100.346	48.229	1.00 93.51	A16S
ATOM	8729	C5*	G	A	416	177.048	98.928	48.507	1.00 93.51	A16S
ATOM	8730	C4*	G	A	416	176.395	98.168	47.371	1.00 93.51	A16S
ATOM	8731	O4*	G	A	416	174.974	98.456	47.336	1.00 93.51	A16S
ATOM	8732	C1*	G	A	416	174.532	98.531	45.991	1.00 93.51	A16S
ATOM	8733	N9	G	A	416	174.063	99.895	45.750	1.00 83.91	A16S
ATOM	8734	C4	G	A	416	173.301	100.340	44.692	1.00 83.91	A16S
ATOM	8735	N3	G	A	416	172.847	99.589	43.668	1.00 83.91	A16S
ATOM	8736	C2	G	A	416	172.165	100.309	42.796	1.00 83.91	A16S
ATOM	8737	N2	G	A	416	171.660	99.724	41.697	1.00 83.91	A16S
ATOM	8738	N1	G	A	416	171.935	101.659	42.928	1.00 83.91	A16S
ATOM	8739	C6	G	A	416	172.394	102.450	43.975	1.00 83.91	A16S
ATOM	8740	O6	G	A	416	172.141	103.664	43.996	1.00 83.91	A16S
ATOM	8741	C5	G	A	416	173.132	101.692	44.908	1.00 83.91	A16S
ATOM	8742	N7	G	A	416	173.769	102.087	46.073	1.00 83.91	A16S
ATOM	8743	C8	G	A	416	174.304	100.993	46.538	1.00 83.91	A16S
ATOM	8744	C2*	G	A	416	175.713	98.146	45.096	1.00 93.51	A16S
ATOM	8745	O2*	G	A	416	175.668	96.761	44.813	1.00 93.51	A16S
ATOM	8746	C3*	G	A	416	176.898	98.509	45.978	1.00 93.51	A16S
ATOM	8747	O3*	G	A	416	178.056	97.764	45.640	1.00 93.51	A16S
ATOM	8748	P	C	A	417	179.141	98.397	44.637	1.00 97.52	A16S
ATOM	8749	O1P	C	A	417	180.233	97.392	44.509	1.00 91.00	A16S
ATOM	8750	O2P	C	A	417	179.468	99.784	45.071	1.00 91.00	A16S
ATOM	8751	O5*	C	A	417	178.358	98.510	43.252	1.00 97.52	A16S
ATOM	8752	C5*	C	A	417	177.987	97.334	42.503	1.00 97.52	A16S
ATOM	8753	C4*	C	A	417	177.173	97.723	41.292	1.00 97.52	A16S
ATOM	8754	O4*	C	A	417	175.900	98.258	41.735	1.00 97.52	A16S
ATOM	8755	C1*	C	A	417	175.530	99.348	40.905	1.00 97.52	A16S
ATOM	8756	N1	C	A	417	175.513	100.583	41.724	1.00 91.00	A16S
ATOM	8757	C6	C	A	417	176.164	100.644	42.926	1.00 91.00	A16S
ATOM	8758	C2	C	A	417	174.823	101.708	41.238	1.00 91.00	A16S
ATOM	8759	O2	C	A	417	174.242	101.636	40.143	1.00 91.00	A16S
ATOM	8760	N3	C	A	417	174.813	102.843	41.971	1.00 91.00	A16S
ATOM	8761	C4	C	A	417	175.456	102.890	43.137	1.00 91.00	A16S
ATOM	8762	N4	C	A	417	175.417	104.034	43.818	1.00 91.00	A16S
ATOM	8763	C5	C	A	417	176.164	101.767	43.656	1.00 91.00	A16S
ATOM	8764	C2*	C	A	417	176.558	99.443	39.777	1.00 97.52	A16S
ATOM	8765	O2*	C	A	417	176.132	98.706	38.647	1.00 97.52	A16S
ATOM	8766	C3*	C	A	417	177.779	98.825	40.433	1.00 97.52	A16S
ATOM	8767	O3*	C	A	417	178.713	98.357	39.473	1.00 97.52	A16S
ATOM	8768	P	C	A	418	179.917	99.319	39.009	1.00 72.82	A16S
ATOM	8769	O1P	C	A	418	180.459	99.988	40.226	1.00 86.57	A16S
ATOM	8770	O2P	C	A	418	180.827	98.519	38.142	1.00 86.57	A16S
ATOM	8771	O5*	C	A	418	179.217	100.431	38.102	1.00 72.82	A16S

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ATOM	8772	C5*	C	A	418	178.766	100.108	36.773	1.00	72.82	A16S
ATOM	8773	C4*	C	A	418	178.213	101.329	36.078	1.00	72.82	A16S
ATOM	8774	O4*	C	A	418	177.044	101.812	36.782	1.00	72.82	A16S
ATOM	8775	C1*	C	A	418	176.961	103.219	36.652	1.00	72.82	A16S
ATOM	8776	N1	C	A	418	176.968	103.825	37.996	1.00	86.57	A16S
ATOM	8777	C6	C	A	418	177.495	103.161	39.069	1.00	86.57	A16S
ATOM	8778	C2	C	A	418	176.428	105.108	38.158	1.00	86.57	A16S
ATOM	8779	O2	C	A	418	175.946	105.687	37.173	1.00	86.57	A16S
ATOM	8780	N3	C	A	418	176.444	105.685	39.381	1.00	86.57	A16S
ATOM	8781	C4	C	A	418	176.964	105.032	40.419	1.00	86.57	A16S
ATOM	8782	N4	C	A	418	176.962	105.644	41.606	1.00	86.57	A16S
ATOM	8783	C5	C	A	418	177.513	103.721	40.287	1.00	86.57	A16S
ATOM	8784	C2*	C	A	418	178.137	103.681	35.793	1.00	72.82	A16S
ATOM	8785	O2*	C	A	418	177.697	103.812	34.455	1.00	72.82	A16S
ATOM	8786	C3*	C	A	418	179.125	102.537	35.982	1.00	72.82	A16S
ATOM	8787	O3*	C	A	418	180.014	102.423	34.884	1.00	72.82	A16S
ATOM	8788	P	C	A	419	181.472	103.098	34.967	1.00	78.10	A16S
ATOM	8789	O1P	C	A	419	182.240	102.591	33.792	1.00	84.94	A16S
ATOM	8790	O2P	C	A	419	181.999	102.880	36.341	1.00	84.94	A16S
ATOM	8791	O5*	C	A	419	181.195	104.656	34.772	1.00	78.10	A16S
ATOM	8792	C5*	C	A	419	180.693	105.137	33.522	1.00	78.10	A16S
ATOM	8793	C4*	C	A	419	180.175	106.545	33.656	1.00	78.10	A16S
ATOM	8794	O4*	C	A	419	179.096	106.593	34.621	1.00	78.10	A16S
ATOM	8795	C1*	C	A	419	179.102	107.852	35.277	1.00	78.10	A16S
ATOM	8796	N1	C	A	419	179.268	107.634	36.727	1.00	84.94	A16S
ATOM	8797	C6	C	A	419	179.444	106.380	37.240	1.00	84.94	A16S
ATOM	8798	C2	C	A	419	179.249	108.742	37.574	1.00	84.94	A16S
ATOM	8799	O2	C	A	419	179.093	109.866	37.083	1.00	84.94	A16S
ATOM	8800	N3	C	A	419	179.400	108.563	38.901	1.00	84.94	A16S
ATOM	8801	C4	C	A	419	179.565	107.338	39.392	1.00	84.94	A16S
ATOM	8802	N4	C	A	419	179.700	107.209	40.710	1.00	84.94	A16S
ATOM	8803	C5	C	A	419	179.596	106.189	38.553	1.00	84.94	A16S
ATOM	8804	C2*	C	A	419	180.250	108.675	34.689	1.00	78.10	A16S
ATOM	8805	O2*	C	A	419	179.760	109.534	33.678	1.00	78.10	A16S
ATOM	8806	C3*	C	A	419	181.160	107.586	34.145	1.00	78.10	A16S
ATOM	8807	O3*	C	A	419	181.975	108.068	33.100	1.00	78.10	A16S
ATOM	8808	P	U	A	420	183.485	108.479	33.422	1.00	93.16	A16S
ATOM	8809	O1P	U	A	420	184.143	108.783	32.123	1.00	67.19	A16S
ATOM	8810	O2P	U	A	420	184.055	107.426	34.315	1.00	67.19	A16S
ATOM	8811	O5*	U	A	420	183.332	109.840	34.236	1.00	93.16	A16S
ATOM	8812	C5*	U	A	420	182.849	111.035	33.584	1.00	93.16	A16S
ATOM	8813	C4*	U	A	420	182.829	112.196	34.553	1.00	93.16	A16S
ATOM	8814	O4*	U	A	420	181.890	111.897	35.613	1.00	93.16	A16S
ATOM	8815	C1*	U	A	420	182.387	112.383	36.843	1.00	93.16	A16S
ATOM	8816	N1	U	A	420	182.553	111.238	37.751	1.00	67.19	A16S
ATOM	8817	C6	U	A	420	182.747	109.967	37.267	1.00	67.19	A16S
ATOM	8818	C2	U	A	420	182.513	111.482	39.112	1.00	67.19	A16S
ATOM	8819	O2	U	A	420	182.318	112.598	39.581	1.00	67.19	A16S
ATOM	8820	N3	U	A	420	182.702	110.372	39.904	1.00	67.19	A16S
ATOM	8821	C4	U	A	420	182.910	109.074	39.479	1.00	67.19	A16S
ATOM	8822	O4	U	A	420	183.093	108.182	40.309	1.00	67.19	A16S
ATOM	8823	C5	U	A	420	182.918	108.908	38.062	1.00	67.19	A16S
ATOM	8824	C2*	U	A	420	183.695	113.131	36.568	1.00	93.16	A16S
ATOM	8825	O2*	U	A	420	183.441	114.518	36.454	1.00	93.16	A16S
ATOM	8826	C3*	U	A	420	184.148	112.500	35.257	1.00	93.16	A16S
ATOM	8827	O3*	U	A	420	184.959	113.400	34.496	1.00	93.16	A16S
ATOM	8828	P	U	A	421	186.549	113.155	34.387	1.00	95.19	A16S
ATOM	8829	O1P	U	A	421	186.890	113.072	32.943	1.00	76.13	A16S
ATOM	8830	O2P	U	A	421	186.946	112.045	35.311	1.00	76.13	A16S
ATOM	8831	O5*	U	A	421	187.182	114.512	34.918	1.00	95.19	A16S
ATOM	8832	C5*	U	A	421	186.751	115.063	36.152	1.00	95.19	A16S
ATOM	8833	C4*	U	A	421	186.910	116.553	36.138	1.00	95.19	A16S
ATOM	8834	O4*	U	A	421	186.358	117.091	34.906	1.00	95.19	A16S
ATOM	8835	C1*	U	A	421	185.358	118.040	35.216	1.00	95.19	A16S
ATOM	8836	N1	U	A	421	184.264	117.913	34.241	1.00	76.13	A16S
ATOM	8837	C6	U	A	421	183.825	116.679	33.813	1.00	76.13	A16S
ATOM	8838	C2	U	A	421	183.675	119.088	33.765	1.00	76.13	A16S
ATOM	8839	O2	U	A	421	184.017	120.208	34.121	1.00	76.13	A16S
ATOM	8840	N3	U	A	421	182.664	118.901	32.859	1.00	76.13	A16S
ATOM	8841	C4	U	A	421	182.183	117.697	32.391	1.00	76.13	A16S
ATOM	8842	O4	U	A	421	181.286	117.698	31.545	1.00	76.13	A16S
ATOM	8843	C5	U	A	421	182.832	116.534	32.933	1.00	76.13	A16S
ATOM	8844	C2*	U	A	421	184.903	117.749	36.646	1.00	95.19	A16S
ATOM	8845	O2*	U	A	421	184.371	118.902	37.269	1.00	95.19	A16S
ATOM	8846	C3*	U	A	421	186.186	117.231	37.295	1.00	95.19	A16S
ATOM	8847	O3*	U	A	421	186.969	118.286	37.840	1.00	95.19	A16S
ATOM	8848	P	C	A	422	188.006	117.973	39.033	1.00	103.82	A16S

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ATOM	8849	O1P	C	A	422	188.330	119.287	39.650	1.00109.60	A16S
ATOM	8850	O2P	C	A	422	189.100	117.116	38.494	1.00109.60	A16S
ATOM	8851	O5*	C	A	422	187.194	117.100	40.092	1.00103.82	A16S
ATOM	8852	C5*	C	A	422	186.177	117.689	40.914	1.00103.82	A16S
ATOM	8853	C4*	C	A	422	185.740	116.717	41.986	1.00103.82	A16S
ATOM	8854	O4*	C	A	422	185.204	115.521	41.365	1.00103.82	A16S
ATOM	8855	C1*	C	A	422	185.834	114.374	41.901	1.00103.82	A16S
ATOM	8856	N1	C	A	422	185.993	113.384	40.815	1.00109.60	A16S
ATOM	8857	C6	C	A	422	186.409	113.775	39.571	1.00109.60	A16S
ATOM	8858	C2	C	A	422	185.691	112.028	41.068	1.00109.60	A16S
ATOM	8859	O2	C	A	422	185.350	111.680	42.215	1.00109.60	A16S
ATOM	8860	N3	C	A	422	185.785	111.135	40.053	1.00109.60	A16S
ATOM	8861	C4	C	A	422	186.169	111.542	38.836	1.00109.60	A16S
ATOM	8862	N4	C	A	422	186.220	110.637	37.856	1.00109.60	A16S
ATOM	8863	C5	C	A	422	186.509	112.898	38.566	1.00109.60	A16S
ATOM	8864	C2*	C	A	422	187.149	114.845	42.521	1.00103.82	A16S
ATOM	8865	O2*	C	A	422	187.491	113.988	43.597	1.00103.82	A16S
ATOM	8866	C3*	C	A	422	186.790	116.253	42.993	1.00103.82	A16S
ATOM	8867	O3*	C	A	422	186.163	116.149	44.265	1.00103.82	A16S
ATOM	8868	P	G	A	423	186.650	117.076	45.486	1.00109.01	A16S
ATOM	8869	O1P	G	A	423	187.736	117.983	45.008	1.00 89.27	A16S
ATOM	8870	O2P	G	A	423	186.909	116.156	46.638	1.00 89.27	A16S
ATOM	8871	O5*	G	A	423	185.382	118.001	45.799	1.00109.01	A16S
ATOM	8872	C5*	G	A	423	184.027	117.471	45.796	1.00109.01	A16S
ATOM	8873	C4*	G	A	423	183.042	118.563	45.432	1.00109.01	A16S
ATOM	8874	O4*	G	A	423	183.436	119.142	44.162	1.00109.01	A16S
ATOM	8875	C1*	G	A	423	182.286	119.553	43.448	1.00109.01	A16S
ATOM	8876	N9	G	A	423	182.333	118.986	42.098	1.00 89.27	A16S
ATOM	8877	C4	G	A	423	182.350	117.650	41.746	1.00 89.27	A16S
ATOM	8878	N3	G	A	423	182.319	116.600	42.597	1.00 89.27	A16S
ATOM	8879	C2	G	A	423	182.343	115.441	41.955	1.00 89.27	A16S
ATOM	8880	N2	G	A	423	182.321	114.291	42.648	1.00 89.27	A16S
ATOM	8881	N1	G	A	423	182.395	115.320	40.589	1.00 89.27	A16S
ATOM	8882	C6	G	A	423	182.434	116.382	39.694	1.00 89.27	A16S
ATOM	8883	O6	G	A	423	182.491	116.158	38.479	1.00 89.27	A16S
ATOM	8884	C5	G	A	423	182.404	117.637	40.367	1.00 89.27	A16S
ATOM	8885	N7	G	A	423	182.418	118.929	39.861	1.00 89.27	A16S
ATOM	8886	C8	G	A	423	182.374	119.693	40.919	1.00 89.27	A16S
ATOM	8887	C2*	G	A	423	181.049	119.205	44.284	1.00109.01	A16S
ATOM	8888	O2*	G	A	423	180.594	120.364	44.956	1.00109.01	A16S
ATOM	8889	C3*	G	A	423	181.588	118.142	45.241	1.00109.01	A16S
ATOM	8890	O3*	G	A	423	180.863	118.180	46.474	1.00109.01	A16S
ATOM	8891	P	G	A	424	179.849	116.985	46.860	1.00113.72	A16S
ATOM	8892	O1P	G	A	424	178.903	117.506	47.888	1.00 86.16	A16S
ATOM	8893	O2P	G	A	424	180.670	115.778	47.161	1.00 86.16	A16S
ATOM	8894	O5*	G	A	424	178.992	116.722	45.538	1.00113.72	A16S
ATOM	8895	C5*	G	A	424	178.130	117.748	45.000	1.00113.72	A16S
ATOM	8896	C4*	G	A	424	177.933	117.552	43.511	1.00113.72	A16S
ATOM	8897	O4*	G	A	424	179.142	116.955	42.973	1.00113.72	A16S
ATOM	8898	C1*	G	A	424	178.815	116.095	41.899	1.00113.72	A16S
ATOM	8899	N9	G	A	424	179.150	114.726	42.271	1.00 86.16	A16S
ATOM	8900	C4	G	A	424	179.215	113.668	41.406	1.00 86.16	A16S
ATOM	8901	N3	G	A	424	179.029	113.732	40.070	1.00 86.16	A16S
ATOM	8902	C2	G	A	424	179.112	112.548	39.501	1.00 86.16	A16S
ATOM	8903	N2	G	A	424	178.944	112.443	38.180	1.00 86.16	A16S
ATOM	8904	N1	G	A	424	179.363	111.383	40.189	1.00 86.16	A16S
ATOM	8905	C6	G	A	424	179.565	111.290	41.566	1.00 86.16	A16S
ATOM	8906	O6	G	A	424	179.791	110.187	42.085	1.00 86.16	A16S
ATOM	8907	C5	G	A	424	179.473	112.565	42.191	1.00 86.16	A16S
ATOM	8908	N7	G	A	424	179.599	112.930	43.526	1.00 86.16	A16S
ATOM	8909	C8	G	A	424	179.408	114.222	43.525	1.00 86.16	A16S
ATOM	8910	C2*	G	A	424	177.310	116.188	41.674	1.00113.72	A16S
ATOM	8911	O2*	G	A	424	177.046	117.131	40.654	1.00113.72	A16S
ATOM	8912	C3*	G	A	424	176.828	116.607	43.056	1.00113.72	A16S
ATOM	8913	O3*	G	A	424	175.548	117.228	42.994	1.00113.72	A16S
ATOM	8914	P	G	A	425	174.218	116.317	43.042	1.00 82.72	A16S
ATOM	8915	O1P	G	A	425	173.048	117.238	43.110	1.00 87.47	A16S
ATOM	8916	O2P	G	A	425	174.392	115.268	44.077	1.00 87.47	A16S
ATOM	8917	O5*	G	A	425	174.194	115.587	41.629	1.00 82.72	A16S
ATOM	8918	C5*	G	A	425	174.106	116.352	40.413	1.00 82.72	A16S
ATOM	8919	C4*	G	A	425	174.160	115.441	39.211	1.00 82.72	A16S
ATOM	8920	O4*	G	A	425	175.465	114.802	39.120	1.00 82.72	A16S
ATOM	8921	C1*	G	A	425	175.318	113.493	38.591	1.00 82.72	A16S
ATOM	8922	N9	G	A	425	175.733	112.522	39.598	1.00 87.47	A16S
ATOM	8923	C4	G	A	425	175.897	111.172	39.391	1.00 87.47	A16S
ATOM	8924	N3	G	A	425	175.737	110.526	38.215	1.00 87.47	A16S
ATOM	8925	C2	G	A	425	175.958	109.228	38.328	1.00 87.47	A16S

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ATOM	8926	N2	G	A	425	175.870	108.439	37.249	1.00	87.47	A16S
ATOM	8927	N1	G	A	425	176.291	108.609	39.503	1.00	87.47	A16S
ATOM	8928	C6	G	A	425	176.455	109.249	40.727	1.00	87.47	A16S
ATOM	8929	O6	G	A	425	176.752	108.588	41.729	1.00	87.47	A16S
ATOM	8930	C5	G	A	425	176.237	110.652	40.618	1.00	87.47	A16S
ATOM	8931	N7	G	A	425	176.306	111.655	41.576	1.00	87.47	A16S
ATOM	8932	C8	G	A	425	176.003	112.746	40.927	1.00	87.47	A16S
ATOM	8933	C2*	G	A	425	173.838	113.289	38.272	1.00	82.72	A16S
ATOM	8934	O2*	G	A	425	173.616	113.571	36.905	1.00	82.72	A16S
ATOM	8935	C3*	G	A	425	173.181	114.281	39.224	1.00	82.72	A16S
ATOM	8936	O3*	G	A	425	171.867	114.653	38.839	1.00	82.72	A16S
ATOM	8937	P	G	A	426	170.614	113.848	39.451	1.00	66.91	A16S
ATOM	8938	O1P	G	A	426	169.379	114.453	38.889	1.00	83.75	A16S
ATOM	8939	O2P	G	A	426	170.781	113.746	40.929	1.00	83.75	A16S
ATOM	8940	O5*	G	A	426	170.776	112.381	38.850	1.00	66.91	A16S
ATOM	8941	C5*	G	A	426	170.881	112.192	37.428	1.00	66.91	A16S
ATOM	8942	C4*	G	A	426	171.018	110.731	37.089	1.00	66.91	A16S
ATOM	8943	O4*	G	A	426	172.279	110.217	37.579	1.00	66.91	A16S
ATOM	8944	C1*	G	A	426	172.150	108.829	37.828	1.00	66.91	A16S
ATOM	8945	N9	G	A	426	172.627	108.524	39.174	1.00	83.75	A16S
ATOM	8946	C4	G	A	426	172.985	107.281	39.628	1.00	83.75	A16S
ATOM	8947	N3	G	A	426	172.979	106.147	38.901	1.00	83.75	A16S
ATOM	8948	C2	G	A	426	173.382	105.111	39.609	1.00	83.75	A16S
ATOM	8949	N2	G	A	426	173.470	103.909	39.031	1.00	83.75	A16S
ATOM	8950	N1	G	A	426	173.739	105.175	40.933	1.00	83.75	A16S
ATOM	8951	C6	G	A	426	173.744	106.328	41.705	1.00	83.75	A16S
ATOM	8952	O6	G	A	426	174.072	106.271	42.895	1.00	83.75	A16S
ATOM	8953	C5	G	A	426	173.336	107.458	40.949	1.00	83.75	A16S
ATOM	8954	N7	G	A	426	173.217	108.790	41.315	1.00	83.75	A16S
ATOM	8955	C8	G	A	426	172.795	109.386	40.231	1.00	83.75	A16S
ATOM	8956	C2*	G	A	426	170.687	108.442	37.603	1.00	66.91	A16S
ATOM	8957	O2*	G	A	426	170.575	107.844	36.329	1.00	66.91	A16S
ATOM	8958	C3*	G	A	426	169.986	109.792	37.680	1.00	66.91	A16S
ATOM	8959	O3*	G	A	426	168.793	109.805	36.923	1.00	66.91	A16S
ATOM	8960	P	U	A	427	167.403	109.448	37.638	1.00	67.07	A16S
ATOM	8961	O1P	U	A	427	166.327	109.742	36.668	1.00	101.51	A16S
ATOM	8962	O2P	U	A	427	167.369	110.076	38.982	1.00	101.51	A16S
ATOM	8963	O5*	U	A	427	167.471	107.872	37.828	1.00	67.07	A16S
ATOM	8964	C5*	U	A	427	167.575	107.008	36.683	1.00	67.07	A16S
ATOM	8965	C4*	U	A	427	167.743	105.574	37.121	1.00	67.07	A16S
ATOM	8966	O4*	U	A	427	169.047	105.385	37.720	1.00	67.07	A16S
ATOM	8967	C1*	U	A	427	168.956	104.426	38.759	1.00	67.07	A16S
ATOM	8968	N1	U	A	427	169.441	105.033	40.013	1.00	101.51	A16S
ATOM	8969	C6	U	A	427	169.203	106.358	40.322	1.00	101.51	A16S
ATOM	8970	C2	U	A	427	170.152	104.220	40.885	1.00	101.51	A16S
ATOM	8971	O2	U	A	427	170.381	103.040	40.660	1.00	101.51	A16S
ATOM	8972	N3	U	A	427	170.581	104.836	42.034	1.00	101.51	A16S
ATOM	8973	C4	U	A	427	170.375	106.148	42.403	1.00	101.51	A16S
ATOM	8974	O4	U	A	427	170.794	106.540	43.497	1.00	101.51	A16S
ATOM	8975	C5	U	A	427	169.633	106.926	41.455	1.00	101.51	A16S
ATOM	8976	C2*	U	A	427	167.506	103.932	38.822	1.00	67.07	A16S
ATOM	8977	O2*	U	A	427	167.388	102.723	38.099	1.00	67.07	A16S
ATOM	8978	C3*	U	A	427	166.755	105.082	38.164	1.00	67.07	A16S
ATOM	8979	O3*	U	A	427	165.576	104.648	37.522	1.00	67.07	A16S
ATOM	8980	P	G	A	428	164.309	104.202	38.389	1.00	66.58	A16S
ATOM	8981	O1P	G	A	428	164.707	103.054	39.246	1.00	77.30	A16S
ATOM	8982	O2P	G	A	428	163.176	104.061	37.438	1.00	77.30	A16S
ATOM	8983	O5*	G	A	428	164.009	105.446	39.323	1.00	66.58	A16S
ATOM	8984	C5*	G	A	428	162.657	105.820	39.626	1.00	66.58	A16S
ATOM	8985	C4*	G	A	428	162.655	107.080	40.440	1.00	66.58	A16S
ATOM	8986	O4*	G	A	428	163.211	106.771	41.746	1.00	66.58	A16S
ATOM	8987	C1*	G	A	428	164.433	107.460	41.945	1.00	66.58	A16S
ATOM	8988	N9	G	A	428	165.401	106.487	42.453	1.00	77.30	A16S
ATOM	8989	C4	G	A	428	166.295	106.673	43.479	1.00	77.30	A16S
ATOM	8990	N3	G	A	428	166.432	107.789	44.215	1.00	77.30	A16S
ATOM	8991	C2	G	A	428	167.379	107.672	45.126	1.00	77.30	A16S
ATOM	8992	N2	G	A	428	167.633	108.692	45.946	1.00	77.30	A16S
ATOM	8993	N1	G	A	428	168.142	106.553	45.300	1.00	77.30	A16S
ATOM	8994	C6	G	A	428	168.028	105.393	44.553	1.00	77.30	A16S
ATOM	8995	O6	G	A	428	168.780	104.448	44.785	1.00	77.30	A16S
ATOM	8996	C5	G	A	428	167.000	105.497	43.574	1.00	77.30	A16S
ATOM	8997	N7	G	A	428	166.550	104.578	42.638	1.00	77.30	A16S
ATOM	8998	C8	G	A	428	165.603	105.207	41.997	1.00	77.30	A16S
ATOM	8999	C2*	G	A	428	164.852	108.052	40.599	1.00	66.58	A16S
ATOM	9000	O2*	G	A	428	165.646	109.218	40.711	1.00	66.58	A16S
ATOM	9001	C3*	G	A	428	163.517	108.185	39.850	1.00	66.58	A16S
ATOM	9002	O3*	G	A	428	162.802	109.445	39.771	1.00	66.58	A16S

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ATOM	9003	P	U	A 429	162.479	110.310	41.088	1.00	71.38	A16S
ATOM	9004	O1P	U	A 429	161.600	111.413	40.621	1.00	88.66	A16S
ATOM	9005	O2P	U	A 429	163.746	110.637	41.791	1.00	88.66	A16S
ATOM	9006	O5*	U	A 429	161.646	109.306	42.004	1.00	71.38	A16S
ATOM	9007	C5*	U	A 429	160.286	109.579	42.334	1.00	71.38	A16S
ATOM	9008	C4*	U	A 429	159.639	108.370	42.953	1.00	71.38	A16S
ATOM	9009	O4*	U	A 429	160.334	107.979	44.171	1.00	71.38	A16S
ATOM	9010	C1*	U	A 429	159.379	107.833	45.196	1.00	71.38	A16S
ATOM	9011	N1	U	A 429	160.015	107.937	46.515	1.00	88.66	A16S
ATOM	9012	C6	U	A 429	160.287	109.142	47.108	1.00	88.66	A16S
ATOM	9013	C2	U	A 429	160.325	106.747	47.145	1.00	88.66	A16S
ATOM	9014	O2	U	A 429	160.080	105.660	46.661	1.00	88.66	A16S
ATOM	9015	N3	U	A 429	160.922	106.871	48.367	1.00	88.66	A16S
ATOM	9016	C4	U	A 429	161.226	108.035	49.018	1.00	88.66	A16S
ATOM	9017	O4	U	A 429	161.830	107.981	50.090	1.00	88.66	A16S
ATOM	9018	C5	U	A 429	160.858	109.232	48.309	1.00	88.66	A16S
ATOM	9019	C2*	U	A 429	158.278	108.826	44.857	1.00	71.38	A16S
ATOM	9020	O2*	U	A 429	157.104	108.521	45.580	1.00	71.38	A16S
ATOM	9021	C3*	U	A 429	158.180	108.611	43.349	1.00	71.38	A16S
ATOM	9022	O3*	U	A 429	157.410	107.428	43.124	1.00	71.38	A16S
ATOM	9023	P	A	A 430	157.463	106.687	41.697	1.00	71.52	A16S
ATOM	9024	O1P	A	A 430	157.860	107.692	40.663	1.00	79.61	A16S
ATOM	9025	O2P	A	A 430	156.204	105.898	41.529	1.00	79.61	A16S
ATOM	9026	O5*	A	A 430	158.687	105.686	41.848	1.00	71.52	A16S
ATOM	9027	C5*	A	A 430	158.855	104.919	43.039	1.00	71.52	A16S
ATOM	9028	C4*	A	A 430	159.780	103.767	42.777	1.00	71.52	A16S
ATOM	9029	O4*	A	A 430	161.102	104.271	42.461	1.00	71.52	A16S
ATOM	9030	C1*	A	A 430	162.082	103.412	43.019	1.00	71.52	A16S
ATOM	9031	N9	A	A 430	162.854	104.173	43.999	1.00	79.61	A16S
ATOM	9032	C4	A	A 430	163.956	103.722	44.684	1.00	79.61	A16S
ATOM	9033	N3	A	A 430	164.539	102.516	44.587	1.00	79.61	A16S
ATOM	9034	C2	A	A 430	165.574	102.429	45.415	1.00	79.61	A16S
ATOM	9035	N1	A	A 430	166.059	103.344	46.260	1.00	79.61	A16S
ATOM	9036	C6	A	A 430	165.454	104.551	46.324	1.00	79.61	A16S
ATOM	9037	N6	A	A 430	165.953	105.476	47.148	1.00	79.61	A16S
ATOM	9038	C5	A	A 430	164.338	104.763	45.508	1.00	79.61	A16S
ATOM	9039	N7	A	A 430	163.494	105.851	45.348	1.00	79.61	A16S
ATOM	9040	C8	A	A 430	162.637	105.454	44.442	1.00	79.61	A16S
ATOM	9041	C2*	A	A 430	161.353	102.239	43.677	1.00	71.52	A16S
ATOM	9042	O2*	A	A 430	161.299	101.158	42.767	1.00	71.52	A16S
ATOM	9043	C3*	A	A 430	159.990	102.853	43.967	1.00	71.52	A16S
ATOM	9044	O3*	A	A 430	158.945	101.894	44.049	1.00	71.52	A16S
ATOM	9045	P	A	A 431	158.319	101.527	45.481	1.00	77.37	A16S
ATOM	9046	O1P	A	A 431	157.344	100.425	45.263	1.00	82.59	A16S
ATOM	9047	O2P	A	A 431	157.867	102.783	46.139	1.00	82.59	A16S
ATOM	9048	O5*	A	A 431	159.576	100.950	46.271	1.00	77.37	A16S
ATOM	9049	C5*	A	A 431	160.341	99.866	45.715	1.00	77.37	A16S
ATOM	9050	C4*	A	A 431	161.571	99.587	46.549	1.00	77.37	A16S
ATOM	9051	O4*	A	A 431	162.536	100.662	46.427	1.00	77.37	A16S
ATOM	9052	C1*	A	A 431	163.283	100.766	47.628	1.00	77.37	A16S
ATOM	9053	N9	A	A 431	163.163	102.129	48.140	1.00	82.59	A16S
ATOM	9054	C4	A	A 431	163.739	102.602	49.292	1.00	82.59	A16S
ATOM	9055	N3	A	A 431	164.523	101.925	50.147	1.00	82.59	A16S
ATOM	9056	C2	A	A 431	164.890	102.705	51.157	1.00	82.59	A16S
ATOM	9057	N1	A	A 431	164.578	103.984	51.396	1.00	82.59	A16S
ATOM	9058	C6	A	A 431	163.778	104.629	50.519	1.00	82.59	A16S
ATOM	9059	N6	A	A 431	163.442	105.895	50.762	1.00	82.59	A16S
ATOM	9060	C5	A	A 431	163.336	103.919	49.400	1.00	82.59	A16S
ATOM	9061	N7	A	A 431	162.537	104.280	48.327	1.00	82.59	A16S
ATOM	9062	C8	A	A 431	162.464	103.185	47.611	1.00	82.59	A16S
ATOM	9063	C2*	A	A 431	162.748	99.721	48.608	1.00	77.37	A16S
ATOM	9064	O2*	A	A 431	163.611	98.605	48.585	1.00	77.37	A16S
ATOM	9065	C3*	A	A 431	161.359	99.435	48.041	1.00	77.37	A16S
ATOM	9066	O3*	A	A 431	160.892	98.134	48.354	1.00	77.37	A16S
ATOM	9067	P	A	A 432	159.857	97.939	49.562	1.00	97.49	A16S
ATOM	9068	O1P	A	A 432	159.526	96.495	49.593	1.00	100.31	A16S
ATOM	9069	O2P	A	A 432	158.767	98.940	49.433	1.00	100.31	A16S
ATOM	9070	O5*	A	A 432	160.723	98.293	50.853	1.00	97.49	A16S
ATOM	9071	C5*	A	A 432	161.935	97.560	51.150	1.00	97.49	A16S
ATOM	9072	C4*	A	A 432	162.697	98.219	52.279	1.00	97.49	A16S
ATOM	9073	O4*	A	A 432	163.209	99.505	51.844	1.00	97.49	A16S
ATOM	9074	C1*	A	A 432	163.143	100.431	52.915	1.00	97.49	A16S
ATOM	9075	N9	A	A 432	162.185	101.469	52.552	1.00	100.31	A16S
ATOM	9076	C4	A	A 432	162.211	102.778	52.958	1.00	100.31	A16S
ATOM	9077	N3	A	A 432	163.135	103.370	53.732	1.00	100.31	A16S
ATOM	9078	C2	A	A 432	162.827	104.651	53.929	1.00	100.31	A16S
ATOM	9079	N1	A	A 432	161.777	105.351	53.479	1.00	100.31	A16S

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ATOM	9080	C6	A	A 432	160.865	104.721	52.709	1.00100.31	A16S
ATOM	9081	N6	A	A 432	159.810	105.413	52.276	1.00100.31	A16S
ATOM	9082	C5	A	A 432	161.083	103.363	52.418	1.00100.31	A16S
ATOM	9083	N7	A	A 432	160.369	102.444	51.666	1.00100.31	A16S
ATOM	9084	C8	A	A 432	161.064	101.341	51.772	1.00100.31	A16S
ATOM	9085	C2*	A	A 432	162.655	99.681	54.155	1.00 97.49	A16S
ATOM	9086	O2*	A	A 432	163.765	99.275	54.932	1.00 97.49	A16S
ATOM	9087	C3*	A	A 432	161.883	98.528	53.525	1.00 97.49	A16S
ATOM	9088	O3*	A	A 432	161.774	97.404	54.379	1.00 97.49	A16S
ATOM	9089	P	C	A 433	160.327	96.935	54.878	1.00 93.05	A16S
ATOM	9090	O1P	C	A 433	160.545	95.895	55.912	1.00 92.93	A16S
ATOM	9091	O2P	C	A 433	159.481	96.635	53.700	1.00 92.93	A16S
ATOM	9092	O5*	C	A 433	159.739	98.229	55.586	1.00 93.05	A16S
ATOM	9093	C5*	C	A 433	160.367	98.760	56.758	1.00 93.05	A16S
ATOM	9094	C4*	C	A 433	159.702	100.045	57.163	1.00 93.05	A16S
ATOM	9095	O4*	C	A 433	159.971	101.064	56.166	1.00 93.05	A16S
ATOM	9096	C1*	C	A 433	158.833	101.893	56.012	1.00 93.05	A16S
ATOM	9097	N1	C	A 433	158.395	101.828	54.604	1.00 92.93	A16S
ATOM	9098	C6	C	A 433	158.405	100.643	53.919	1.00 92.93	A16S
ATOM	9099	C2	C	A 433	157.954	103.000	53.974	1.00 92.93	A16S
ATOM	9100	O2	C	A 433	157.980	104.067	54.597	1.00 92.93	A16S
ATOM	9101	N3	C	A 433	157.517	102.941	52.702	1.00 92.93	A16S
ATOM	9102	C4	C	A 433	157.520	101.780	52.049	1.00 92.93	A16S
ATOM	9103	N4	C	A 433	157.075	101.774	50.794	1.00 92.93	A16S
ATOM	9104	C5	C	A 433	157.982	100.575	52.653	1.00 92.93	A16S
ATOM	9105	C2*	C	A 433	157.767	101.420	57.007	1.00 93.05	A16S
ATOM	9106	O2*	C	A 433	157.815	102.226	58.169	1.00 93.05	A16S
ATOM	9107	C3*	C	A 433	158.189	99.974	57.252	1.00 93.05	A16S
ATOM	9108	O3*	C	A 433	157.777	99.461	58.513	1.00 93.05	A16S
ATOM	9109	P	U	A 434	156.347	98.739	58.648	1.00 82.87	A16S
ATOM	9110	O1P	U	A 434	156.294	98.093	59.989	1.00 86.99	A16S
ATOM	9111	O2P	U	A 434	156.108	97.917	57.428	1.00 86.99	A16S
ATOM	9112	O5*	U	A 434	155.322	99.958	58.642	1.00 82.87	A16S
ATOM	9113	C5*	U	A 434	155.395	100.976	59.654	1.00 82.87	A16S
ATOM	9114	C4*	U	A 434	154.372	102.051	59.392	1.00 82.87	A16S
ATOM	9115	O4*	U	A 434	154.782	102.874	58.271	1.00 82.87	A16S
ATOM	9116	C1*	U	A 434	153.633	103.307	57.559	1.00 82.87	A16S
ATOM	9117	N1	U	A 434	153.749	102.886	56.151	1.00 86.99	A16S
ATOM	9118	C6	U	A 434	154.636	101.907	55.761	1.00 86.99	A16S
ATOM	9119	C2	U	A 434	152.927	103.507	55.222	1.00 86.99	A16S
ATOM	9120	O2	U	A 434	152.128	104.380	55.513	1.00 86.99	A16S
ATOM	9121	N3	U	A 434	153.073	103.064	53.935	1.00 86.99	A16S
ATOM	9122	C4	U	A 434	153.933	102.089	53.485	1.00 86.99	A16S
ATOM	9123	O4	U	A 434	153.919	101.780	52.295	1.00 86.99	A16S
ATOM	9124	C5	U	A 434	154.752	101.499	54.496	1.00 86.99	A16S
ATOM	9125	C2*	U	A 434	152.397	102.732	58.260	1.00 82.87	A16S
ATOM	9126	O2*	U	A 434	151.829	103.694	59.124	1.00 82.87	A16S
ATOM	9127	C3*	U	A 434	152.987	101.555	59.019	1.00 82.87	A16S
ATOM	9128	O3*	U	A 434	152.216	101.227	60.159	1.00 82.87	A16S
ATOM	9129	P	C	A 435	151.136	100.041	60.064	1.00 78.89	A16S
ATOM	9130	O1P	C	A 435	150.634	99.808	61.447	1.00 94.65	A16S
ATOM	9131	O2P	C	A 435	151.757	98.912	59.312	1.00 94.65	A16S
ATOM	9132	O5*	C	A 435	149.943	100.663	59.196	1.00 78.89	A16S
ATOM	9133	C5*	C	A 435	149.043	101.643	59.772	1.00 78.89	A16S
ATOM	9134	C4*	C	A 435	148.231	102.335	58.698	1.00 78.89	A16S
ATOM	9135	O4*	C	A 435	149.126	102.947	57.734	1.00 78.89	A16S
ATOM	9136	C1*	C	A 435	148.544	102.898	56.442	1.00 78.89	A16S
ATOM	9137	N1	C	A 435	149.426	102.123	55.547	1.00 94.65	A16S
ATOM	9138	C6	C	A 435	150.421	101.331	56.050	1.00 94.65	A16S
ATOM	9139	C2	C	A 435	149.224	102.202	54.159	1.00 94.65	A16S
ATOM	9140	O2	C	A 435	148.318	102.931	53.717	1.00 94.65	A16S
ATOM	9141	N3	C	A 435	150.018	101.481	53.336	1.00 94.65	A16S
ATOM	9142	C4	C	A 435	150.980	100.708	53.844	1.00 94.65	A16S
ATOM	9143	N4	C	A 435	151.735	100.012	52.995	1.00 94.65	A16S
ATOM	9144	C5	C	A 435	151.211	100.615	55.244	1.00 94.65	A16S
ATOM	9145	C2*	C	A 435	147.154	102.275	56.580	1.00 78.89	A16S
ATOM	9146	O2*	C	A 435	146.191	103.305	56.674	1.00 78.89	A16S
ATOM	9147	C3*	C	A 435	147.296	101.468	57.867	1.00 78.89	A16S
ATOM	9148	O3*	C	A 435	146.034	101.294	58.510	1.00 78.89	A16S
ATOM	9149	P	C	A 436	145.056	100.095	58.053	1.00 74.74	A16S
ATOM	9150	O1P	C	A 436	143.823	100.188	58.871	1.00 71.68	A16S
ATOM	9151	O2P	C	A 436	145.830	98.823	58.042	1.00 71.68	A16S
ATOM	9152	O5*	C	A 436	144.656	100.464	56.554	1.00 74.74	A16S
ATOM	9153	C5*	C	A 436	143.804	101.594	56.267	1.00 74.74	A16S
ATOM	9154	C4*	C	A 436	143.462	101.647	54.788	1.00 74.74	A16S
ATOM	9155	O4*	C	A 436	144.644	101.971	54.005	1.00 74.74	A16S
ATOM	9156	C1*	C	A 436	144.583	101.309	52.748	1.00 74.74	A16S

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ATOM	9157	N1	C	A	436	145.730	100.389	52.647	1.00	71.68	A16S
ATOM	9158	C6	C	A	436	146.616	100.259	53.682	1.00	71.68	A16S
ATOM	9159	C2	C	A	436	145.898	99.634	51.474	1.00	71.68	A16S
ATOM	9160	O2	C	A	436	145.086	99.777	50.539	1.00	71.68	A16S
ATOM	9161	N3	C	A	436	146.940	98.767	51.392	1.00	71.68	A16S
ATOM	9162	C4	C	A	436	147.792	98.643	52.419	1.00	71.68	A16S
ATOM	9163	N4	C	A	436	148.797	97.767	52.308	1.00	71.68	A16S
ATOM	9164	C5	C	A	436	147.649	99.408	53.612	1.00	71.68	A16S
ATOM	9165	C2*	C	A	436	143.249	100.562	52.683	1.00	74.74	A16S
ATOM	9166	O2*	C	A	436	142.294	101.364	52.015	1.00	74.74	A16S
ATOM	9167	C3*	C	A	436	142.934	100.365	54.159	1.00	74.74	A16S
ATOM	9168	O3*	C	A	436	141.547	100.174	54.383	1.00	74.74	A16S
ATOM	9169	P	U	A	437	140.968	98.678	54.473	1.00	69.55	A16S
ATOM	9170	O1P	U	A	437	139.578	98.749	54.995	1.00	75.34	A16S
ATOM	9171	O2P	U	A	437	141.985	97.842	55.182	1.00	75.34	A16S
ATOM	9172	O5*	U	A	437	140.872	98.205	52.951	1.00	69.55	A16S
ATOM	9173	C5*	U	A	437	139.961	98.851	52.028	1.00	69.55	A16S
ATOM	9174	C4*	U	A	437	140.197	98.368	50.612	1.00	69.55	A16S
ATOM	9175	O4*	U	A	437	141.570	98.633	50.242	1.00	69.55	A16S
ATOM	9176	C1*	U	A	437	142.049	97.590	49.422	1.00	69.55	A16S
ATOM	9177	N1	U	A	437	143.219	96.979	50.075	1.00	75.34	A16S
ATOM	9178	C6	U	A	437	143.508	97.209	51.399	1.00	75.34	A16S
ATOM	9179	C2	U	A	437	144.028	96.157	49.308	1.00	75.34	A16S
ATOM	9180	O2	U	A	437	143.809	95.926	48.125	1.00	75.34	A16S
ATOM	9181	N3	U	A	437	145.104	95.618	49.974	1.00	75.34	A16S
ATOM	9182	C4	U	A	437	145.450	95.814	51.293	1.00	75.34	A16S
ATOM	9183	O4	U	A	437	146.484	95.305	51.734	1.00	75.34	A16S
ATOM	9184	C5	U	A	437	144.565	96.670	52.015	1.00	75.34	A16S
ATOM	9185	C2*	U	A	437	140.896	96.617	49.174	1.00	69.55	A16S
ATOM	9186	O2*	U	A	437	140.260	96.992	47.977	1.00	69.55	A16S
ATOM	9187	C3*	U	A	437	139.995	96.881	50.369	1.00	69.55	A16S
ATOM	9188	O3*	U	A	437	138.630	96.622	50.038	1.00	69.55	A16S
ATOM	9189	P	G	A	438	138.004	95.159	50.282	1.00	86.09	A16S
ATOM	9190	O1P	G	A	438	136.708	95.100	49.563	1.00	78.75	A16S
ATOM	9191	O2P	G	A	438	138.043	94.865	51.737	1.00	78.75	A16S
ATOM	9192	O5*	G	A	438	139.029	94.172	49.561	1.00	86.09	A16S
ATOM	9193	C5*	G	A	438	139.054	94.017	48.118	1.00	86.09	A16S
ATOM	9194	C4*	G	A	438	140.135	93.034	47.730	1.00	86.09	A16S
ATOM	9195	O4*	G	A	438	141.360	93.519	48.321	1.00	86.09	A16S
ATOM	9196	C1*	G	A	438	142.127	92.427	48.779	1.00	86.09	A16S
ATOM	9197	N9	G	A	438	142.579	92.689	50.143	1.00	78.75	A16S
ATOM	9198	C4	G	A	438	143.811	92.367	50.667	1.00	78.75	A16S
ATOM	9199	N3	G	A	438	144.797	91.704	50.027	1.00	78.75	A16S
ATOM	9200	C2	G	A	438	145.870	91.556	50.788	1.00	78.75	A16S
ATOM	9201	N2	G	A	438	146.944	90.907	50.312	1.00	78.75	A16S
ATOM	9202	N1	G	A	438	145.972	92.028	52.075	1.00	78.75	A16S
ATOM	9203	C6	G	A	438	144.972	92.713	52.757	1.00	78.75	A16S
ATOM	9204	O6	G	A	438	145.171	93.097	53.928	1.00	78.75	A16S
ATOM	9205	C5	G	A	438	143.806	92.872	51.948	1.00	78.75	A16S
ATOM	9206	N7	G	A	438	142.590	93.474	52.232	1.00	78.75	A16S
ATOM	9207	C8	G	A	438	141.893	93.333	51.138	1.00	78.75	A16S
ATOM	9208	C2*	G	A	438	141.355	91.135	48.523	1.00	86.09	A16S
ATOM	9209	O2*	G	A	438	141.830	90.563	47.330	1.00	86.09	A16S
ATOM	9210	C3*	G	A	438	139.935	91.629	48.299	1.00	86.09	A16S
ATOM	9211	O3*	G	A	438	139.311	90.636	47.437	1.00	86.09	A16S
ATOM	9212	P	A	A	439	138.981	90.934	45.872	1.00	65.83	A16S
ATOM	9213	O1P	A	A	439	138.890	92.395	45.618	1.00	85.83	A16S
ATOM	9214	O2P	A	A	439	137.818	90.058	45.514	1.00	85.83	A16S
ATOM	9215	O5*	A	A	439	140.244	90.377	45.064	1.00	65.83	A16S
ATOM	9216	C5*	A	A	439	140.358	88.969	44.743	1.00	65.83	A16S
ATOM	9217	C4*	A	A	439	141.040	88.765	43.397	1.00	65.83	A16S
ATOM	9218	O4*	A	A	439	142.391	89.303	43.433	1.00	65.83	A16S
ATOM	9219	C1*	A	A	439	143.277	88.446	42.725	1.00	65.83	A16S
ATOM	9220	N9	A	A	439	144.259	87.925	43.677	1.00	85.83	A16S
ATOM	9221	C4	A	A	439	145.397	87.218	43.379	1.00	85.83	A16S
ATOM	9222	N3	A	A	439	145.846	86.873	42.165	1.00	85.83	A16S
ATOM	9223	C2	A	A	439	146.987	86.195	42.265	1.00	85.83	A16S
ATOM	9224	N1	A	A	439	147.676	85.851	43.357	1.00	85.83	A16S
ATOM	9225	C6	A	A	439	147.196	86.217	44.562	1.00	85.83	A16S
ATOM	9226	N6	A	A	439	147.887	85.880	45.652	1.00	85.83	A16S
ATOM	9227	C5	A	A	439	145.994	86.937	44.593	1.00	85.83	A16S
ATOM	9228	N7	A	A	439	145.247	87.453	45.637	1.00	85.83	A16S
ATOM	9229	C8	A	A	439	144.233	88.028	45.044	1.00	85.83	A16S
ATOM	9230	C2*	A	A	439	142.445	87.327	42.102	1.00	65.83	A16S
ATOM	9231	O2*	A	A	439	142.133	87.634	40.759	1.00	65.83	A16S
ATOM	9232	C3*	A	A	439	141.229	87.301	43.016	1.00	65.83	A16S
ATOM	9233	O3*	A	A	439	140.081	86.750	42.376	1.00	65.83	A16S

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ATOM	9234	P	A	A 440	139.730	85.192	42.583	1.00	67.65	A16S
ATOM	9235	O1P	A	A 440	138.659	84.819	41.622	1.00	87.91	A16S
ATOM	9236	O2P	A	A 440	139.531	84.938	44.035	1.00	87.91	A16S
ATOM	9237	O5*	A	A 440	141.065	84.458	42.124	1.00	67.65	A16S
ATOM	9238	C5*	A	A 440	141.398	83.181	42.651	1.00	67.65	A16S
ATOM	9239	C4*	A	A 440	142.891	83.019	42.727	1.00	67.65	A16S
ATOM	9240	O4*	A	A 440	143.484	84.196	43.327	1.00	67.65	A16S
ATOM	9241	C1*	A	A 440	144.434	83.806	44.302	1.00	67.65	A16S
ATOM	9242	N9	A	A 440	143.880	84.184	45.605	1.00	87.91	A16S
ATOM	9243	C4	A	A 440	144.523	84.199	46.819	1.00	87.91	A16S
ATOM	9244	N3	A	A 440	145.803	83.872	47.071	1.00	87.91	A16S
ATOM	9245	C2	A	A 440	146.073	84.008	48.366	1.00	87.91	A16S
ATOM	9246	N1	A	A 440	145.269	84.405	49.362	1.00	87.91	A16S
ATOM	9247	C6	A	A 440	143.991	84.725	49.071	1.00	87.91	A16S
ATOM	9248	N6	A	A 440	143.191	85.122	50.060	1.00	87.91	A16S
ATOM	9249	C5	A	A 440	143.580	84.620	47.738	1.00	87.91	A16S
ATOM	9250	N7	A	A 440	142.366	84.866	47.119	1.00	87.91	A16S
ATOM	9251	C8	A	A 440	142.595	84.596	45.861	1.00	87.91	A16S
ATOM	9252	C2*	A	A 440	144.643	82.294	44.154	1.00	67.65	A16S
ATOM	9253	O2*	A	A 440	145.693	82.043	43.243	1.00	67.65	A16S
ATOM	9254	C3*	A	A 440	143.289	81.859	43.616	1.00	67.65	A16S
ATOM	9255	O3*	A	A 440	143.301	80.667	42.860	1.00	67.65	A16S
ATOM	9256	P	C	A 442	142.012	79.709	42.892	1.00	90.93	A16S
ATOM	9257	O1P	C	A 442	142.350	78.518	42.070	1.00	93.34	A16S
ATOM	9258	O2P	C	A 442	140.776	80.478	42.595	1.00	93.34	A16S
ATOM	9259	O5*	C	A 442	141.924	79.284	44.420	1.00	90.93	A16S
ATOM	9260	C5*	C	A 442	143.069	78.733	45.084	1.00	90.93	A16S
ATOM	9261	C4*	C	A 442	142.940	78.908	46.571	1.00	90.93	A16S
ATOM	9262	O4*	C	A 442	143.053	80.310	46.913	1.00	90.93	A16S
ATOM	9263	C1*	C	A 442	142.220	80.593	48.022	1.00	90.93	A16S
ATOM	9264	N1	C	A 442	141.245	81.623	47.628	1.00	93.34	A16S
ATOM	9265	C6	C	A 442	140.807	81.725	46.334	1.00	93.34	A16S
ATOM	9266	C2	C	A 442	140.753	82.491	48.611	1.00	93.34	A16S
ATOM	9267	O2	C	A 442	141.184	82.394	49.775	1.00	93.34	A16S
ATOM	9268	N3	C	A 442	139.823	83.411	48.271	1.00	93.34	A16S
ATOM	9269	C4	C	A 442	139.389	83.488	47.011	1.00	93.34	A16S
ATOM	9270	N4	C	A 442	138.458	84.399	46.728	1.00	93.34	A16S
ATOM	9271	C5	C	A 442	139.887	82.631	45.987	1.00	93.34	A16S
ATOM	9272	C2*	C	A 442	141.532	79.292	48.439	1.00	90.93	A16S
ATOM	9273	O2*	C	A 442	142.239	78.700	49.505	1.00	90.93	A16S
ATOM	9274	C3*	C	A 442	141.611	78.478	47.157	1.00	90.93	A16S
ATOM	9275	O3*	C	A 442	141.571	77.084	47.390	1.00	90.93	A16S
ATOM	9276	P	C	A 443	140.150	76.350	47.518	1.00	73.68	A16S
ATOM	9277	O1P	C	A 443	140.395	74.885	47.559	1.00	103.32	A16S
ATOM	9278	O2P	C	A 443	139.240	76.910	46.488	1.00	103.32	A16S
ATOM	9279	O5*	C	A 443	139.634	76.812	48.954	1.00	73.68	A16S
ATOM	9280	C5*	C	A 443	140.275	76.331	50.159	1.00	73.68	A16S
ATOM	9281	C4*	C	A 443	139.490	76.756	51.377	1.00	73.68	A16S
ATOM	9282	O4*	C	A 443	139.620	78.187	51.563	1.00	73.68	A16S
ATOM	9283	C1*	C	A 443	138.409	78.710	52.081	1.00	73.68	A16S
ATOM	9284	N1	C	A 443	137.882	79.712	51.136	1.00	103.32	A16S
ATOM	9285	C6	C	A 443	138.057	79.575	49.787	1.00	103.32	A16S
ATOM	9286	C2	C	A 443	137.179	80.812	51.647	1.00	103.32	A16S
ATOM	9287	O2	C	A 443	137.045	80.925	52.876	1.00	103.32	A16S
ATOM	9288	N3	C	A 443	136.667	81.725	50.793	1.00	103.32	A16S
ATOM	9289	C4	C	A 443	136.841	81.580	49.481	1.00	103.32	A16S
ATOM	9290	N4	C	A 443	136.317	82.509	48.679	1.00	103.32	A16S
ATOM	9291	C5	C	A 443	137.558	80.476	48.933	1.00	103.32	A16S
ATOM	9292	C2*	C	A 443	137.437	77.545	52.281	1.00	73.68	A16S
ATOM	9293	O2*	C	A 443	137.466	77.089	53.617	1.00	73.68	A16S
ATOM	9294	C3*	C	A 443	137.989	76.515	51.311	1.00	73.68	A16S
ATOM	9295	O3*	C	A 443	137.616	75.201	51.691	1.00	73.68	A16S
ATOM	9296	P	C	A 444	136.209	74.609	51.187	1.00	88.00	A16S
ATOM	9297	O1P	C	A 444	136.099	73.212	51.675	1.00	109.55	A16S
ATOM	9298	O2P	C	A 444	136.084	74.887	49.731	1.00	109.55	A16S
ATOM	9299	O5*	C	A 444	135.127	75.488	51.962	1.00	88.00	A16S
ATOM	9300	C5*	C	A 444	135.005	75.405	53.392	1.00	88.00	A16S
ATOM	9301	C4*	C	A 444	133.865	76.264	53.875	1.00	88.00	A16S
ATOM	9302	O4*	C	A 444	134.196	77.666	53.724	1.00	88.00	A16S
ATOM	9303	C1*	C	A 444	133.014	78.407	53.444	1.00	88.00	A16S
ATOM	9304	N1	C	A 444	133.166	79.103	52.148	1.00	109.55	A16S
ATOM	9305	C6	C	A 444	134.236	78.856	51.331	1.00	109.55	A16S
ATOM	9306	C2	C	A 444	132.169	80.020	51.750	1.00	109.55	A16S
ATOM	9307	O2	C	A 444	131.222	80.258	52.519	1.00	109.55	A16S
ATOM	9308	N3	C	A 444	132.270	80.618	50.544	1.00	109.55	A16S
ATOM	9309	C4	C	A 444	133.310	80.351	49.752	1.00	109.55	A16S
ATOM	9310	N4	C	A 444	133.360	80.954	48.569	1.00	109.55	A16S

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ATOM	9311	C5	C	A	444	134.345	79.450	50.138	1.00109.55	A16S
ATOM	9312	C2*	C	A	444	131.843	77.421	53.408	1.00 88.00	A16S
ATOM	9313	O2*	C	A	444	131.144	77.434	54.637	1.00 88.00	A16S
ATOM	9314	C3*	C	A	444	132.553	76.104	53.129	1.00 88.00	A16S
ATOM	9315	O3*	C	A	444	131.796	75.004	53.588	1.00 88.00	A16S
ATOM	9316	P	G	A	445	130.627	74.411	52.659	1.00 84.09	A16S
ATOM	9317	O1P	G	A	445	130.037	73.246	53.373	1.00 95.95	A16S
ATOM	9318	O2P	G	A	445	131.189	74.227	51.295	1.00 95.95	A16S
ATOM	9319	O5*	G	A	445	129.536	75.575	52.610	1.00 84.09	A16S
ATOM	9320	C5*	G	A	445	128.735	75.871	53.761	1.00 84.09	A16S
ATOM	9321	C4*	G	A	445	127.696	76.915	53.432	1.00 84.09	A16S
ATOM	9322	O4*	G	A	445	128.343	78.171	53.102	1.00 84.09	A16S
ATOM	9323	C1*	G	A	445	127.533	78.893	52.185	1.00 84.09	A16S
ATOM	9324	N9	G	A	445	128.293	79.141	50.963	1.00 95.95	A16S
ATOM	9325	C4	G	A	445	127.926	79.994	49.948	1.00 95.95	A16S
ATOM	9326	N3	G	A	445	126.822	80.773	49.928	1.00 95.95	A16S
ATOM	9327	C2	G	A	445	126.733	81.477	48.813	1.00 95.95	A16S
ATOM	9328	N2	G	A	445	125.703	82.315	48.632	1.00 95.95	A16S
ATOM	9329	N1	G	A	445	127.648	81.411	47.796	1.00 95.95	A16S
ATOM	9330	C6	G	A	445	128.787	80.610	47.790	1.00 95.95	A16S
ATOM	9331	O6	G	A	445	129.538	80.614	46.809	1.00 95.95	A16S
ATOM	9332	C5	G	A	445	128.904	79.862	48.988	1.00 95.95	A16S
ATOM	9333	N7	G	A	445	129.882	78.964	49.398	1.00 95.95	A16S
ATOM	9334	C8	G	A	445	129.480	78.564	50.574	1.00 95.95	A16S
ATOM	9335	C2*	G	A	445	126.292	78.048	51.893	1.00 84.09	A16S
ATOM	9336	O2*	G	A	445	125.221	78.482	52.705	1.00 84.09	A16S
ATOM	9337	C3*	G	A	445	126.780	76.648	52.248	1.00 84.09	A16S
ATOM	9338	O3*	G	A	445	125.697	75.792	52.574	1.00 84.09	A16S
ATOM	9339	P	G	A	446	124.969	74.954	51.410	1.00 84.15	A16S
ATOM	9340	O1P	G	A	446	123.910	74.110	52.035	1.00 80.97	A16S
ATOM	9341	O2P	G	A	446	126.026	74.314	50.577	1.00 80.97	A16S
ATOM	9342	O5*	G	A	446	124.228	76.066	50.547	1.00 84.15	A16S
ATOM	9343	C5*	G	A	446	123.186	76.864	51.132	1.00 84.15	A16S
ATOM	9344	C4*	G	A	446	122.665	77.874	50.136	1.00 84.15	A16S
ATOM	9345	O4*	G	A	446	123.687	78.858	49.827	1.00 84.15	A16S
ATOM	9346	C1*	G	A	446	123.537	79.291	48.486	1.00 84.15	A16S
ATOM	9347	N9	G	A	446	124.763	78.986	47.762	1.00 80.97	A16S
ATOM	9348	C4	G	A	446	125.162	79.557	46.587	1.00 80.97	A16S
ATOM	9349	N3	G	A	446	124.483	80.496	45.895	1.00 80.97	A16S
ATOM	9350	C2	G	A	446	125.133	80.878	44.811	1.00 80.97	A16S
ATOM	9351	N2	G	A	446	124.602	81.821	44.012	1.00 80.97	A16S
ATOM	9352	N1	G	A	446	126.357	80.369	44.433	1.00 80.97	A16S
ATOM	9353	C6	G	A	446	127.074	79.400	45.134	1.00 80.97	A16S
ATOM	9354	O6	G	A	446	128.176	79.017	44.714	1.00 80.97	A16S
ATOM	9355	C5	G	A	446	126.383	78.985	46.299	1.00 80.97	A16S
ATOM	9356	N7	G	A	446	126.734	78.059	47.269	1.00 80.97	A16S
ATOM	9357	C8	G	A	446	125.743	78.091	48.114	1.00 80.97	A16S
ATOM	9358	C2*	G	A	446	122.335	78.566	47.890	1.00 84.15	A16S
ATOM	9359	O2*	G	A	446	121.195	79.400	47.979	1.00 84.15	A16S
ATOM	9360	C3*	G	A	446	122.247	77.334	48.782	1.00 84.15	A16S
ATOM	9361	O3*	G	A	446	120.940	76.803	48.808	1.00 84.15	A16S
ATOM	9362	P	G	A	447	120.566	75.612	47.811	1.00 85.03	A16S
ATOM	9363	O1P	G	A	447	119.080	75.494	47.758	1.00 97.89	A16S
ATOM	9364	O2P	G	A	447	121.398	74.430	48.194	1.00 97.89	A16S
ATOM	9365	O5*	G	A	447	121.070	76.143	46.394	1.00 85.03	A16S
ATOM	9366	C5*	G	A	447	120.457	77.294	45.763	1.00 85.03	A16S
ATOM	9367	C4*	G	A	447	121.086	77.557	44.408	1.00 85.03	A16S
ATOM	9368	O4*	G	A	447	122.420	78.109	44.549	1.00 85.03	A16S
ATOM	9369	C1*	G	A	447	123.255	77.607	43.523	1.00 85.03	A16S
ATOM	9370	N9	G	A	447	124.322	76.845	44.163	1.00 97.89	A16S
ATOM	9371	C4	G	A	447	125.578	76.579	43.660	1.00 97.89	A16S
ATOM	9372	N3	G	A	447	126.064	76.989	42.467	1.00 97.89	A16S
ATOM	9373	C2	G	A	447	127.310	76.577	42.273	1.00 97.89	A16S
ATOM	9374	N2	G	A	447	127.956	76.901	41.139	1.00 97.89	A16S
ATOM	9375	N1	G	A	447	128.017	75.819	43.178	1.00 97.89	A16S
ATOM	9376	C6	G	A	447	127.536	75.387	44.411	1.00 97.89	A16S
ATOM	9377	O6	G	A	447	128.262	74.710	45.157	1.00 97.89	A16S
ATOM	9378	C5	G	A	447	126.205	75.823	44.631	1.00 97.89	A16S
ATOM	9379	N7	G	A	447	125.365	75.622	45.716	1.00 97.89	A16S
ATOM	9380	C8	G	A	447	124.265	76.244	45.396	1.00 97.89	A16S
ATOM	9381	C2*	G	A	447	122.387	76.755	42.592	1.00 85.03	A16S
ATOM	9382	O2*	G	A	447	121.961	77.562	41.515	1.00 85.03	A16S
ATOM	9383	C3*	G	A	447	121.250	76.337	43.521	1.00 85.03	A16S
ATOM	9384	O3*	G	A	447	120.004	76.072	42.887	1.00 85.03	A16S
ATOM	9385	P	A	A	448	119.884	74.934	41.755	1.00 84.11	A16S
ATOM	9386	O1P	A	A	448	118.562	74.283	41.956	1.00 77.99	A16S
ATOM	9387	O2P	A	A	448	121.105	74.109	41.712	1.00 77.99	A16S

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ATOM	9388	O5*	A	A	448	119.776	75.795	40.425	1.00	84.11	A16S
ATOM	9389	C5*	A	A	448	119.024	77.012	40.467	1.00	84.11	A16S
ATOM	9390	C4*	A	A	448	119.257	77.839	39.239	1.00	84.11	A16S
ATOM	9391	O4*	A	A	448	120.625	78.301	39.145	1.00	84.11	A16S
ATOM	9392	C1*	A	A	448	120.861	78.692	37.811	1.00	84.11	A16S
ATOM	9393	N9	A	A	448	122.200	78.290	37.395	1.00	77.99	A16S
ATOM	9394	C4	A	A	448	122.886	78.874	36.359	1.00	77.99	A16S
ATOM	9395	N3	A	A	448	122.466	79.879	35.567	1.00	77.99	A16S
ATOM	9396	C2	A	A	448	123.403	80.198	34.683	1.00	77.99	A16S
ATOM	9397	N1	A	A	448	124.619	79.668	34.512	1.00	77.99	A16S
ATOM	9398	C6	A	A	448	125.003	78.656	35.322	1.00	77.99	A16S
ATOM	9399	N6	A	A	448	126.207	78.123	35.153	1.00	77.99	A16S
ATOM	9400	C5	A	A	448	124.103	78.226	36.300	1.00	77.99	A16S
ATOM	9401	N7	A	A	448	124.182	77.239	37.271	1.00	77.99	A16S
ATOM	9402	C8	A	A	448	123.029	77.317	37.892	1.00	77.99	A16S
ATOM	9403	C2*	A	A	448	119.745	78.105	36.945	1.00	84.11	A16S
ATOM	9404	O2*	A	A	448	118.929	79.182	36.550	1.00	84.11	A16S
ATOM	9405	C3*	A	A	448	119.044	77.153	37.914	1.00	84.11	A16S
ATOM	9406	O3*	A	A	448	117.659	77.059	37.655	1.00	84.11	A16S
ATOM	9407	P	C	A	449	117.153	76.287	36.349	1.00	63.23	A16S
ATOM	9408	O1P	C	A	449	115.707	76.006	36.527	1.00	80.49	A16S
ATOM	9409	O2P	C	A	449	118.090	75.162	36.063	1.00	80.49	A16S
ATOM	9410	O5*	C	A	449	117.289	77.380	35.195	1.00	63.23	A16S
ATOM	9411	C5*	C	A	449	116.533	78.598	35.253	1.00	63.23	A16S
ATOM	9412	C4*	C	A	449	116.968	79.541	34.158	1.00	63.23	A16S
ATOM	9413	O4*	C	A	449	118.356	79.929	34.328	1.00	63.23	A16S
ATOM	9414	C1*	C	A	449	118.934	80.183	33.063	1.00	63.23	A16S
ATOM	9415	N1	C	A	449	120.159	79.371	32.918	1.00	80.49	A16S
ATOM	9416	C6	C	A	449	120.425	78.333	33.765	1.00	80.49	A16S
ATOM	9417	C2	C	A	449	121.059	79.682	31.887	1.00	80.49	A16S
ATOM	9418	O2	C	A	449	120.800	80.627	31.121	1.00	80.49	A16S
ATOM	9419	N3	C	A	449	122.185	78.946	31.748	1.00	80.49	A16S
ATOM	9420	C4	C	A	449	122.430	77.939	32.581	1.00	80.49	A16S
ATOM	9421	N4	C	A	449	123.550	77.248	32.403	1.00	80.49	A16S
ATOM	9422	C5	C	A	449	121.537	77.597	33.632	1.00	80.49	A16S
ATOM	9423	C2*	C	A	449	117.865	79.918	31.999	1.00	63.23	A16S
ATOM	9424	O2*	C	A	449	117.262	81.149	31.646	1.00	63.23	A16S
ATOM	9425	C3*	C	A	449	116.896	79.005	32.743	1.00	63.23	A16S
ATOM	9426	O3*	C	A	449	115.568	79.106	32.249	1.00	63.23	A16S
ATOM	9427	P	G	A	450	114.748	77.763	31.917	1.00	66.83	A16S
ATOM	9428	O1P	G	A	450	113.326	78.117	31.581	1.00	68.59	A16S
ATOM	9429	O2P	G	A	450	115.022	76.789	33.025	1.00	68.59	A16S
ATOM	9430	O5*	G	A	450	115.462	77.224	30.596	1.00	66.83	A16S
ATOM	9431	C5*	G	A	450	115.536	78.035	29.410	1.00	66.83	A16S
ATOM	9432	C4*	G	A	450	116.755	77.664	28.593	1.00	66.83	A16S
ATOM	9433	O4*	G	A	450	117.957	77.879	29.377	1.00	66.83	A16S
ATOM	9434	C1*	G	A	450	118.945	76.933	29.007	1.00	66.83	A16S
ATOM	9435	N9	G	A	450	119.330	76.177	30.197	1.00	68.59	A16S
ATOM	9436	C4	G	A	450	120.518	75.508	30.406	1.00	68.59	A16S
ATOM	9437	N3	G	A	450	121.562	75.458	29.557	1.00	68.59	A16S
ATOM	9438	C2	G	A	450	122.553	74.721	30.032	1.00	68.59	A16S
ATOM	9439	N2	G	A	450	123.680	74.573	29.322	1.00	68.59	A16S
ATOM	9440	N1	G	A	450	122.518	74.077	31.237	1.00	68.59	A16S
ATOM	9441	C6	G	A	450	121.457	74.111	32.128	1.00	68.59	A16S
ATOM	9442	O6	G	A	450	121.531	73.487	33.191	1.00	68.59	A16S
ATOM	9443	C5	G	A	450	120.389	74.909	31.637	1.00	68.59	A16S
ATOM	9444	N7	G	A	450	119.161	75.213	32.207	1.00	68.59	A16S
ATOM	9445	C8	G	A	450	118.570	75.969	31.321	1.00	68.59	A16S
ATOM	9446	C2*	G	A	450	118.348	76.041	27.912	1.00	66.83	A16S
ATOM	9447	O2*	G	A	450	118.708	76.488	26.618	1.00	66.83	A16S
ATOM	9448	C3*	G	A	450	116.857	76.219	28.139	1.00	66.83	A16S
ATOM	9449	O3*	G	A	450	116.174	76.000	26.921	1.00	66.83	A16S
ATOM	9450	P	A	A	451	115.841	74.503	26.467	1.00	59.42	A16S
ATOM	9451	O1P	A	A	451	116.990	73.660	26.892	1.00	70.45	A16S
ATOM	9452	O2P	A	A	451	115.412	74.515	25.038	1.00	70.45	A16S
ATOM	9453	O5*	A	A	451	114.575	74.109	27.345	1.00	59.42	A16S
ATOM	9454	C5*	A	A	451	113.231	74.484	26.943	1.00	59.42	A16S
ATOM	9455	C4*	A	A	451	112.288	74.355	28.123	1.00	59.42	A16S
ATOM	9456	O4*	A	A	451	112.331	72.980	28.584	1.00	59.42	A16S
ATOM	9457	C1*	A	A	451	112.832	72.926	29.902	1.00	59.42	A16S
ATOM	9458	N9	A	A	451	113.829	71.866	29.943	1.00	70.45	A16S
ATOM	9459	C4	A	A	451	114.098	71.025	30.990	1.00	70.45	A16S
ATOM	9460	N3	A	A	451	113.484	70.984	32.184	1.00	70.45	A16S
ATOM	9461	C2	A	A	451	114.029	70.050	32.955	1.00	70.45	A16S
ATOM	9462	N1	A	A	451	115.039	69.216	32.685	1.00	70.45	A16S
ATOM	9463	C6	A	A	451	115.625	69.284	31.470	1.00	70.45	A16S
ATOM	9464	N6	A	A	451	116.630	68.451	31.186	1.00	70.45	A16S

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ATOM	9465	C5	A	A	451	115.142	70.229	30.569	1.00	70.45	A16S
ATOM	9466	N7	A	A	451	115.512	70.549	29.275	1.00	70.45	A16S
ATOM	9467	C8	A	A	451	114.703	71.520	28.950	1.00	70.45	A16S
ATOM	9468	C2*	A	A	451	113.469	74.280	30.203	1.00	59.42	A16S
ATOM	9469	O2*	A	A	451	113.398	74.583	31.583	1.00	59.42	A16S
ATOM	9470	C3*	A	A	451	112.656	75.223	29.323	1.00	59.42	A16S
ATOM	9471	O3*	A	A	451	111.476	75.629	30.003	1.00	59.42	A16S
ATOM	9472	P	A	A	452	110.767	77.012	29.614	1.00	69.42	A16S
ATOM	9473	O1P	A	A	452	111.726	77.824	28.825	1.00	72.18	A16S
ATOM	9474	O2P	A	A	452	110.204	77.563	30.873	1.00	72.18	A16S
ATOM	9475	O5*	A	A	452	109.582	76.574	28.642	1.00	69.42	A16S
ATOM	9476	C5*	A	A	452	108.451	75.840	29.145	1.00	69.42	A16S
ATOM	9477	C4*	A	A	452	107.955	74.855	28.110	1.00	69.42	A16S
ATOM	9478	O4*	A	A	452	109.000	73.887	27.801	1.00	69.42	A16S
ATOM	9479	C1*	A	A	452	108.461	72.583	27.887	1.00	69.42	A16S
ATOM	9480	N9	A	A	452	109.538	71.627	28.132	1.00	72.18	A16S
ATOM	9481	C4	A	A	452	110.281	71.042	27.138	1.00	72.18	A16S
ATOM	9482	N3	A	A	452	110.152	71.229	25.813	1.00	72.18	A16S
ATOM	9483	C2	A	A	452	111.045	70.504	25.154	1.00	72.18	A16S
ATOM	9484	N1	A	A	452	111.987	69.676	25.632	1.00	72.18	A16S
ATOM	9485	C6	A	A	452	112.092	69.517	26.968	1.00	72.18	A16S
ATOM	9486	N6	A	A	452	113.040	68.709	27.442	1.00	72.18	A16S
ATOM	9487	C5	A	A	452	111.194	70.224	27.779	1.00	72.18	A16S
ATOM	9488	N7	A	A	452	111.027	70.285	29.154	1.00	72.18	A16S
ATOM	9489	C8	A	A	452	110.032	71.127	29.312	1.00	72.18	A16S
ATOM	9490	C2*	A	A	452	107.339	72.686	28.913	1.00	69.42	A16S
ATOM	9491	O2*	A	A	452	106.432	71.617	28.781	1.00	69.42	A16S
ATOM	9492	C3*	A	A	452	106.732	74.028	28.518	1.00	69.42	A16S
ATOM	9493	O3*	A	A	452	105.923	73.816	27.357	1.00	69.42	A16S
ATOM	9494	P	A	A	453	104.321	73.710	27.492	1.00	58.62	A16S
ATOM	9495	O1P	A	A	453	103.797	75.109	27.505	1.00	66.25	A16S
ATOM	9496	O2P	A	A	453	103.973	72.771	28.612	1.00	66.25	A16S
ATOM	9497	O5*	A	A	453	103.870	73.054	26.109	1.00	58.62	A16S
ATOM	9498	C5*	A	A	453	103.795	71.616	25.942	1.00	58.62	A16S
ATOM	9499	C4*	A	A	453	104.703	71.175	24.817	1.00	58.62	A16S
ATOM	9500	O4*	A	A	453	106.073	71.241	25.272	1.00	58.62	A16S
ATOM	9501	C1*	A	A	453	106.814	70.179	24.702	1.00	58.62	A16S
ATOM	9502	N9	A	A	453	107.389	69.400	25.796	1.00	66.25	A16S
ATOM	9503	C4	A	A	453	108.294	68.378	25.689	1.00	66.25	A16S
ATOM	9504	N3	A	A	453	108.808	67.864	24.565	1.00	66.25	A16S
ATOM	9505	C2	A	A	453	109.664	66.891	24.850	1.00	66.25	A16S
ATOM	9506	N1	A	A	453	110.035	66.410	26.043	1.00	66.25	A16S
ATOM	9507	C6	A	A	453	109.492	66.952	27.151	1.00	66.25	A16S
ATOM	9508	N6	A	A	453	109.852	66.473	28.342	1.00	66.25	A16S
ATOM	9509	C5	A	A	453	108.574	67.988	26.983	1.00	66.25	A16S
ATOM	9510	N7	A	A	453	107.847	68.737	27.890	1.00	66.25	A16S
ATOM	9511	C8	A	A	453	107.157	69.552	27.136	1.00	66.25	A16S
ATOM	9512	C2*	A	A	453	105.887	69.392	23.774	1.00	58.62	A16S
ATOM	9513	O2*	A	A	453	106.060	69.839	22.443	1.00	58.62	A16S
ATOM	9514	C3*	A	A	453	104.519	69.746	24.335	1.00	58.62	A16S
ATOM	9515	O3*	A	A	453	103.528	69.709	23.321	1.00	58.62	A16S
ATOM	9516	P	C	A	454	102.320	68.657	23.432	1.00	68.86	A16S
ATOM	9517	O1P	C	A	454	101.327	68.961	22.362	1.00	61.93	A16S
ATOM	9518	O2P	C	A	454	101.889	68.636	24.853	1.00	61.93	A16S
ATOM	9519	O5*	C	A	454	102.993	67.258	23.071	1.00	68.86	A16S
ATOM	9520	C5*	C	A	454	103.358	66.972	21.712	1.00	68.86	A16S
ATOM	9521	C4*	C	A	454	104.298	65.797	21.643	1.00	68.86	A16S
ATOM	9522	O4*	C	A	454	105.540	66.084	22.334	1.00	68.86	A16S
ATOM	9523	C1*	C	A	454	106.101	64.875	22.805	1.00	68.86	A16S
ATOM	9524	N1	C	A	454	106.339	64.968	24.252	1.00	61.93	A16S
ATOM	9525	C6	C	A	454	105.459	65.617	25.073	1.00	61.93	A16S
ATOM	9526	C2	C	A	454	107.486	64.353	24.787	1.00	61.93	A16S
ATOM	9527	O2	C	A	454	108.281	63.764	24.020	1.00	61.93	A16S
ATOM	9528	N3	C	A	454	107.701	64.408	26.124	1.00	61.93	A16S
ATOM	9529	C4	C	A	454	106.829	65.038	26.916	1.00	61.93	A16S
ATOM	9530	N4	C	A	454	107.088	65.067	28.231	1.00	61.93	A16S
ATOM	9531	C5	C	A	454	105.658	65.669	26.397	1.00	61.93	A16S
ATOM	9532	C2*	C	A	454	105.126	63.749	22.470	1.00	68.86	A16S
ATOM	9533	O2*	C	A	454	105.574	63.127	21.285	1.00	68.86	A16S
ATOM	9534	C3*	C	A	454	103.818	64.508	22.275	1.00	68.86	A16S
ATOM	9535	O3*	C	A	454	102.919	63.817	21.416	1.00	68.86	A16S
ATOM	9536	P	C	A	455	101.409	63.539	21.899	1.00	73.43	A16S
ATOM	9537	O1P	C	A	455	100.811	62.605	20.903	1.00	79.45	A16S
ATOM	9538	O2P	C	A	455	100.757	64.848	22.176	1.00	79.45	A16S
ATOM	9539	O5*	C	A	455	101.565	62.780	23.289	1.00	73.43	A16S
ATOM	9540	C5*	C	A	455	102.153	61.471	23.354	1.00	73.43	A16S
ATOM	9541	C4*	C	A	455	102.320	61.059	24.794	1.00	73.43	A16S

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ATOM	9542	O4*	C	A	455	103.234	61.983	25.438	1.00	73.43	A16S
ATOM	9543	C1*	C	A	455	102.807	62.233	26.764	1.00	73.43	A16S
ATOM	9544	N1	C	A	455	102.525	63.673	26.894	1.00	79.45	A16S
ATOM	9545	C6	C	A	455	102.223	64.433	25.798	1.00	79.45	A16S
ATOM	9546	C2	C	A	455	102.578	64.261	28.169	1.00	79.45	A16S
ATOM	9547	O2	C	A	455	102.827	63.548	29.155	1.00	79.45	A16S
ATOM	9548	N3	C	A	455	102.351	65.586	28.296	1.00	79.45	A16S
ATOM	9549	C4	C	A	455	102.070	66.320	27.219	1.00	79.45	A16S
ATOM	9550	N4	C	A	455	101.861	67.629	27.396	1.00	79.45	A16S
ATOM	9551	C5	C	A	455	101.991	65.745	25.913	1.00	79.45	A16S
ATOM	9552	C2*	C	A	455	101.585	61.356	27.039	1.00	73.43	A16S
ATOM	9553	O2*	C	A	455	102.006	60.170	27.685	1.00	73.43	A16S
ATOM	9554	C3*	C	A	455	101.052	61.131	25.630	1.00	73.43	A16S
ATOM	9555	O3*	C	A	455	100.263	59.955	25.504	1.00	73.43	A16S
ATOM	9556	P	C	A	456	98.662	60.075	25.511	1.00	93.47	A16S
ATOM	9557	O1P	C	A	456	98.119	58.731	25.202	1.00	98.41	A16S
ATOM	9558	O2P	C	A	456	98.263	61.228	24.673	1.00	98.41	A16S
ATOM	9559	O5*	C	A	456	98.334	60.422	27.029	1.00	93.47	A16S
ATOM	9560	C5*	C	A	456	98.579	59.452	28.067	1.00	93.47	A16S
ATOM	9561	C4*	C	A	456	98.103	59.978	29.398	1.00	93.47	A16S
ATOM	9562	O4*	C	A	456	98.970	61.052	29.831	1.00	93.47	A16S
ATOM	9563	C1*	C	A	456	98.204	62.061	30.461	1.00	93.47	A16S
ATOM	9564	N1	C	A	456	98.369	63.300	29.685	1.00	98.41	A16S
ATOM	9565	C6	C	A	456	98.569	63.260	28.329	1.00	98.41	A16S
ATOM	9566	C2	C	A	456	98.314	64.528	30.355	1.00	98.41	A16S
ATOM	9567	O2	C	A	456	98.138	64.535	31.588	1.00	98.41	A16S
ATOM	9568	N3	C	A	456	98.456	65.673	29.644	1.00	98.41	A16S
ATOM	9569	C4	C	A	456	98.651	65.620	28.322	1.00	98.41	A16S
ATOM	9570	N4	C	A	456	98.787	66.772	27.665	1.00	98.41	A16S
ATOM	9571	C5	C	A	456	98.714	64.383	27.618	1.00	98.41	A16S
ATOM	9572	C2*	C	A	456	96.749	61.587	30.521	1.00	93.47	A16S
ATOM	9573	O2*	C	A	456	96.464	61.033	31.792	1.00	93.47	A16S
ATOM	9574	C3*	C	A	456	96.709	60.578	29.380	1.00	93.47	A16S
ATOM	9575	O3*	C	A	456	95.716	59.578	29.541	1.00	93.47	A16S
ATOM	9576	P	C	A	457	94.280	59.782	28.859	1.00	91.32	A16S
ATOM	9577	O1P	C	A	457	93.534	58.503	29.026	1.00	115.36	A16S
ATOM	9578	O2P	C	A	457	94.474	60.339	27.493	1.00	115.36	A16S
ATOM	9579	O5*	C	A	457	93.618	60.917	29.763	1.00	91.32	A16S
ATOM	9580	C5*	C	A	457	93.193	60.629	31.110	1.00	91.32	A16S
ATOM	9581	C4*	C	A	457	92.567	61.850	31.743	1.00	91.32	A16S
ATOM	9582	O4*	C	A	457	93.602	62.834	32.000	1.00	91.32	A16S
ATOM	9583	C1*	C	A	457	93.082	64.139	31.792	1.00	91.32	A16S
ATOM	9584	N1	C	A	457	93.824	64.758	30.673	1.00	115.36	A16S
ATOM	9585	C6	C	A	457	94.339	63.984	29.667	1.00	115.36	A16S
ATOM	9586	C2	C	A	457	93.979	66.160	30.636	1.00	115.36	A16S
ATOM	9587	O2	C	A	457	93.528	66.848	31.566	1.00	115.36	A16S
ATOM	9588	N3	C	A	457	94.615	66.722	29.584	1.00	115.36	A16S
ATOM	9589	C4	C	A	457	95.093	65.953	28.601	1.00	115.36	A16S
ATOM	9590	N4	C	A	457	95.696	66.552	27.575	1.00	115.36	A16S
ATOM	9591	C5	C	A	457	94.970	64.534	28.625	1.00	115.36	A16S
ATOM	9592	C2*	C	A	457	91.587	63.999	31.473	1.00	91.32	A16S
ATOM	9593	O2*	C	A	457	90.789	64.175	32.632	1.00	91.32	A16S
ATOM	9594	C3*	C	A	457	91.524	62.584	30.910	1.00	91.32	A16S
ATOM	9595	O3*	C	A	457	90.216	62.022	30.988	1.00	91.32	A16S
ATOM	9596	P	C	A	458	89.123	62.385	29.855	1.00	87.91	A16S
ATOM	9597	O1P	C	A	458	87.925	61.540	30.103	1.00	124.68	A16S
ATOM	9598	O2P	C	A	458	89.766	62.357	28.509	1.00	124.68	A16S
ATOM	9599	O5*	C	A	458	88.729	63.902	30.171	1.00	87.91	A16S
ATOM	9600	C5*	C	A	458	87.861	64.242	31.279	1.00	87.91	A16S
ATOM	9601	C4*	C	A	458	87.388	65.672	31.153	1.00	87.91	A16S
ATOM	9602	O4*	C	A	458	88.508	66.572	31.349	1.00	87.91	A16S
ATOM	9603	C1*	C	A	458	88.395	67.681	30.467	1.00	87.91	A16S
ATOM	9604	N1	C	A	458	89.594	67.729	29.595	1.00	124.68	A16S
ATOM	9605	C6	C	A	458	90.413	66.640	29.466	1.00	124.68	A16S
ATOM	9606	C2	C	A	458	89.879	68.911	28.885	1.00	124.68	A16S
ATOM	9607	O2	C	A	458	89.133	69.895	29.020	1.00	124.68	A16S
ATOM	9608	N3	C	A	458	90.959	68.943	28.065	1.00	124.68	A16S
ATOM	9609	C4	C	A	458	91.737	67.865	27.941	1.00	124.68	A16S
ATOM	9610	N4	C	A	458	92.775	67.932	27.108	1.00	124.68	A16S
ATOM	9611	C5	C	A	458	91.482	66.666	28.659	1.00	124.68	A16S
ATOM	9612	C2*	C	A	458	87.087	67.529	29.686	1.00	87.91	A16S
ATOM	9613	O2*	C	A	458	86.083	68.318	30.281	1.00	87.91	A16S
ATOM	9614	C3*	C	A	458	86.823	66.032	29.791	1.00	87.91	A16S
ATOM	9615	O3*	C	A	458	85.439	65.734	29.712	1.00	87.91	A16S
ATOM	9616	P	G	A	459	84.827	65.171	28.335	1.00	87.47	A16S
ATOM	9617	O1P	G	A	459	83.355	64.999	28.479	1.00	90.79	A16S
ATOM	9618	O2P	G	A	459	85.670	63.996	27.965	1.00	90.79	A16S

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ATOM	9619	O5*	G	A	459	85.070	66.349	27.285	1.00	87.47	A16S
ATOM	9620	C5*	G	A	459	84.476	67.648	27.467	1.00	87.47	A16S
ATOM	9621	C4*	G	A	459	85.137	68.666	26.560	1.00	87.47	A16S
ATOM	9622	O4*	G	A	459	86.503	68.917	26.994	1.00	87.47	A16S
ATOM	9623	C1*	G	A	459	87.328	69.156	25.860	1.00	87.47	A16S
ATOM	9624	N9	G	A	459	88.373	68.130	25.805	1.00	90.79	A16S
ATOM	9625	C4	G	A	459	89.304	67.952	24.799	1.00	90.79	A16S
ATOM	9626	N3	G	A	459	89.412	68.693	23.675	1.00	90.79	A16S
ATOM	9627	C2	G	A	459	90.408	68.285	22.909	1.00	90.79	A16S
ATOM	9628	N2	G	A	459	90.670	68.920	21.765	1.00	90.79	A16S
ATOM	9629	N1	G	A	459	91.225	67.226	23.211	1.00	90.79	A16S
ATOM	9630	C6	G	A	459	91.131	66.444	24.353	1.00	90.79	A16S
ATOM	9631	O6	G	A	459	91.920	65.508	24.522	1.00	90.79	A16S
ATOM	9632	C5	G	A	459	90.070	66.878	25.195	1.00	90.79	A16S
ATOM	9633	N7	G	A	459	89.632	66.383	26.415	1.00	90.79	A16S
ATOM	9634	C8	G	A	459	88.627	67.151	26.736	1.00	90.79	A16S
ATOM	9635	C2*	G	A	459	86.427	69.136	24.621	1.00	87.47	A16S
ATOM	9636	O2*	G	A	459	86.024	70.453	24.301	1.00	87.47	A16S
ATOM	9637	C3*	G	A	459	85.262	68.277	25.092	1.00	87.47	A16S
ATOM	9638	O3*	G	A	459	84.085	68.558	24.351	1.00	87.47	A16S
ATOM	9639	P	A	A	460	83.093	67.361	23.963	1.00	94.36	A16S
ATOM	9640	O1P	A	A	460	81.860	67.959	23.408	1.00	107.09	A16S
ATOM	9641	O2P	A	A	460	83.011	66.454	25.137	1.00	107.09	A16S
ATOM	9642	O5*	A	A	460	83.808	66.592	22.769	1.00	94.36	A16S
ATOM	9643	C5*	A	A	460	85.031	65.856	22.968	1.00	94.36	A16S
ATOM	9644	C4*	A	A	460	85.423	65.164	21.686	1.00	94.36	A16S
ATOM	9645	O4*	A	A	460	84.901	65.939	20.589	1.00	94.36	A16S
ATOM	9646	C1*	A	A	460	85.877	66.068	19.587	1.00	94.36	A16S
ATOM	9647	N9	A	A	460	85.975	67.494	19.246	1.00	107.09	A16S
ATOM	9648	C4	A	A	460	86.312	68.041	18.026	1.00	107.09	A16S
ATOM	9649	N3	A	A	460	86.685	67.392	16.906	1.00	107.09	A16S
ATOM	9650	C2	A	A	460	86.917	68.254	15.911	1.00	107.09	A16S
ATOM	9651	N1	A	A	460	86.828	69.588	15.907	1.00	107.09	A16S
ATOM	9652	C6	A	A	460	86.453	70.211	17.045	1.00	107.09	A16S
ATOM	9653	N6	A	A	460	86.373	71.543	17.042	1.00	107.09	A16S
ATOM	9654	C5	A	A	460	86.172	69.410	18.174	1.00	107.09	A16S
ATOM	9655	N7	A	A	460	85.775	69.725	19.467	1.00	107.09	A16S
ATOM	9656	C8	A	A	460	85.689	68.563	20.064	1.00	107.09	A16S
ATOM	9657	C2*	A	A	460	87.132	65.273	19.994	1.00	94.36	A16S
ATOM	9658	O2*	A	A	460	87.234	64.060	19.267	1.00	94.36	A16S
ATOM	9659	C3*	A	A	460	86.928	65.027	21.492	1.00	94.36	A16S
ATOM	9660	O3*	A	A	460	87.285	63.664	21.795	1.00	94.36	A16S
ATOM	9661	P	C	A	461	88.443	63.336	22.862	1.00	110.13	A16S
ATOM	9662	O1P	C	A	461	88.123	62.002	23.435	1.00	128.19	A16S
ATOM	9663	O2P	C	A	461	88.610	64.492	23.772	1.00	128.19	A16S
ATOM	9664	O5*	C	A	461	89.768	63.211	21.980	1.00	110.13	A16S
ATOM	9665	C5*	C	A	461	90.191	64.269	21.077	1.00	110.13	A16S
ATOM	9666	C4*	C	A	461	91.684	64.168	20.814	1.00	110.13	A16S
ATOM	9667	O4*	C	A	461	92.024	62.772	20.631	1.00	110.13	A16S
ATOM	9668	C1*	C	A	461	92.645	62.590	19.377	1.00	110.13	A16S
ATOM	9669	N1	C	A	461	92.216	61.277	18.854	1.00	128.19	A16S
ATOM	9670	C6	C	A	461	90.951	61.097	18.359	1.00	128.19	A16S
ATOM	9671	C2	C	A	461	93.127	60.198	18.885	1.00	128.19	A16S
ATOM	9672	O2	C	A	461	94.276	60.377	19.335	1.00	128.19	A16S
ATOM	9673	N3	C	A	461	92.726	58.989	18.426	1.00	128.19	A16S
ATOM	9674	C4	C	A	461	91.484	58.827	17.955	1.00	128.19	A16S
ATOM	9675	N4	C	A	461	91.129	57.613	17.524	1.00	128.19	A16S
ATOM	9676	C5	C	A	461	90.548	59.903	17.907	1.00	128.19	A16S
ATOM	9677	C2*	C	A	461	92.280	63.814	18.529	1.00	110.13	A16S
ATOM	9678	O2*	C	A	461	93.252	64.056	17.527	1.00	110.13	A16S
ATOM	9679	C3*	C	A	461	92.222	64.914	19.588	1.00	110.13	A16S
ATOM	9680	O3*	C	A	461	93.573	65.347	19.825	1.00	110.13	A16S
ATOM	9681	P	G	A	462	93.902	66.901	20.087	1.00	81.76	A16S
ATOM	9682	O1P	G	A	462	95.353	67.099	19.811	1.00	92.35	A16S
ATOM	9683	O2P	G	A	462	93.370	67.241	21.430	1.00	92.35	A16S
ATOM	9684	O5*	G	A	462	93.055	67.691	18.985	1.00	81.76	A16S
ATOM	9685	C5*	G	A	462	93.510	67.783	17.617	1.00	81.76	A16S
ATOM	9686	C4*	G	A	462	92.930	69.012	16.928	1.00	81.76	A16S
ATOM	9687	O4*	G	A	462	91.491	68.871	16.789	1.00	81.76	A16S
ATOM	9688	C1*	G	A	462	90.870	70.144	16.908	1.00	81.76	A16S
ATOM	9689	N9	G	A	462	89.979	70.101	18.068	1.00	92.35	A16S
ATOM	9690	C4	G	A	462	89.217	71.137	18.570	1.00	92.35	A16S
ATOM	9691	N3	G	A	462	89.127	72.385	18.056	1.00	92.35	A16S
ATOM	9692	C2	G	A	462	88.325	73.159	18.775	1.00	92.35	A16S
ATOM	9693	N2	G	A	462	88.115	74.429	18.410	1.00	92.35	A16S
ATOM	9694	N1	G	A	462	87.669	72.741	19.907	1.00	92.35	A16S
ATOM	9695	C6	G	A	462	87.746	71.462	20.450	1.00	92.35	A16S

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ATOM	9696	O6	G	A 462	87.117	71.189	21.475	1.00	92.35	A16S
ATOM	9697	C5	G	A 462	88.595	70.622	19.691	1.00	92.35	A16S
ATOM	9698	N7	G	A 462	88.933	69.288	19.874	1.00	92.35	A16S
ATOM	9699	C8	G	A 462	89.750	69.021	18.892	1.00	92.35	A16S
ATOM	9700	C2*	G	A 462	91.982	71.195	17.047	1.00	81.76	A16S
ATOM	9701	O2*	G	A 462	92.292	71.770	15.789	1.00	81.76	A16S
ATOM	9702	C3*	G	A 462	93.132	70.364	17.607	1.00	81.76	A16S
ATOM	9703	O3*	G	A 462	94.388	70.952	17.278	1.00	81.76	A16S
ATOM	9704	P	A	A 463	95.141	71.881	18.352	1.00	66.75	A16S
ATOM	9705	O1P	A	A 463	96.318	72.467	17.661	1.00	90.16	A16S
ATOM	9706	O2P	A	A 463	95.335	71.112	19.617	1.00	90.16	A16S
ATOM	9707	O5*	A	A 463	94.109	73.061	18.627	1.00	66.75	A16S
ATOM	9708	C5*	A	A 463	93.914	74.118	17.667	1.00	66.75	A16S
ATOM	9709	C4*	A	A 463	92.996	75.174	18.239	1.00	66.75	A16S
ATOM	9710	O4*	A	A 463	91.674	74.610	18.415	1.00	66.75	A16S
ATOM	9711	C1*	A	A 463	91.059	75.189	19.553	1.00	66.75	A16S
ATOM	9712	N9	A	A 463	90.692	74.130	20.489	1.00	90.16	A16S
ATOM	9713	C4	A	A 463	89.773	74.263	21.498	1.00	90.16	A16S
ATOM	9714	N3	A	A 463	89.048	75.352	21.793	1.00	90.16	A16S
ATOM	9715	C2	A	A 463	88.263	75.119	22.840	1.00	90.16	A16S
ATOM	9716	N1	A	A 463	88.132	74.007	23.572	1.00	90.16	A16S
ATOM	9717	C6	A	A 463	88.876	72.931	23.247	1.00	90.16	A16S
ATOM	9718	N6	A	A 463	88.744	71.822	23.978	1.00	90.16	A16S
ATOM	9719	C5	A	A 463	89.749	73.048	22.151	1.00	90.16	A16S
ATOM	9720	N7	A	A 463	90.632	72.156	21.558	1.00	90.16	A16S
ATOM	9721	C8	A	A 463	91.163	72.845	20.579	1.00	90.16	A16S
ATOM	9722	C2*	A	A 463	92.041	76.176	20.181	1.00	66.75	A16S
ATOM	9723	O2*	A	A 463	91.705	77.493	19.802	1.00	66.75	A16S
ATOM	9724	C3*	A	A 463	93.372	75.702	19.615	1.00	66.75	A16S
ATOM	9725	O3*	A	A 463	94.284	76.780	19.539	1.00	66.75	A16S
ATOM	9726	P	G	A 474	95.317	77.029	20.741	1.00	62.79	A16S
ATOM	9727	O1P	G	A 474	95.956	78.350	20.498	1.00	108.74	A16S
ATOM	9728	O2P	G	A 474	96.165	75.816	20.856	1.00	108.74	A16S
ATOM	9729	O5*	G	A 474	94.411	77.119	22.053	1.00	62.79	A16S
ATOM	9730	C5*	G	A 474	93.580	78.268	22.332	1.00	62.79	A16S
ATOM	9731	C4*	G	A 474	92.737	78.023	23.573	1.00	62.79	A16S
ATOM	9732	O4*	G	A 474	91.745	76.992	23.312	1.00	62.79	A16S
ATOM	9733	C1*	G	A 474	91.529	76.225	24.492	1.00	62.79	A16S
ATOM	9734	N9	G	A 474	91.851	74.828	24.219	1.00	108.74	A16S
ATOM	9735	C4	G	A 474	91.544	73.752	25.017	1.00	108.74	A16S
ATOM	9736	N3	G	A 474	90.852	73.795	26.175	1.00	108.74	A16S
ATOM	9737	C2	G	A 474	90.746	72.599	26.728	1.00	108.74	A16S
ATOM	9738	N2	G	A 474	90.092	72.453	27.883	1.00	108.74	A16S
ATOM	9739	N1	G	A 474	91.274	71.455	26.189	1.00	108.74	A16S
ATOM	9740	C6	G	A 474	91.990	71.387	24.999	1.00	108.74	A16S
ATOM	9741	O6	G	A 474	92.430	70.299	24.602	1.00	108.74	A16S
ATOM	9742	C5	G	A 474	92.110	72.662	24.394	1.00	108.74	A16S
ATOM	9743	N7	G	A 474	92.737	73.039	23.216	1.00	108.74	A16S
ATOM	9744	C8	G	A 474	92.551	74.328	23.150	1.00	108.74	A16S
ATOM	9745	C2*	G	A 474	92.429	76.782	25.598	1.00	62.79	A16S
ATOM	9746	O2*	G	A 474	91.668	77.570	26.485	1.00	62.79	A16S
ATOM	9747	C3*	G	A 474	93.494	77.537	24.803	1.00	62.79	A16S
ATOM	9748	O3*	G	A 474	94.035	78.623	25.545	1.00	62.79	A16S
ATOM	9749	P	G	A 475	95.253	78.368	26.559	1.00	80.99	A16S
ATOM	9750	O1P	G	A 475	95.657	79.698	27.081	1.00	137.05	A16S
ATOM	9751	O2P	G	A 475	96.250	77.517	25.864	1.00	137.05	A16S
ATOM	9752	O5*	G	A 475	94.632	77.519	27.761	1.00	80.99	A16S
ATOM	9753	C5*	G	A 475	93.821	78.141	28.784	1.00	80.99	A16S
ATOM	9754	C4*	G	A 475	93.331	77.105	29.776	1.00	80.99	A16S
ATOM	9755	O4*	G	A 475	92.535	76.110	29.080	1.00	80.99	A16S
ATOM	9756	C1*	G	A 475	92.744	74.832	29.663	1.00	80.99	A16S
ATOM	9757	N9	G	A 475	93.254	73.931	28.633	1.00	137.05	A16S
ATOM	9758	C4	G	A 475	93.471	72.577	28.755	1.00	137.05	A16S
ATOM	9759	N3	G	A 475	93.230	71.827	29.849	1.00	137.05	A16S
ATOM	9760	C2	G	A 475	93.553	70.558	29.658	1.00	137.05	A16S
ATOM	9761	N2	G	A 475	93.375	69.666	30.640	1.00	137.05	A16S
ATOM	9762	N1	G	A 475	94.078	70.069	28.490	1.00	137.05	A16S
ATOM	9763	C6	G	A 475	94.339	70.823	27.352	1.00	137.05	A16S
ATOM	9764	O6	G	A 475	94.825	70.284	26.346	1.00	137.05	A16S
ATOM	9765	C5	G	A 475	93.987	72.182	27.539	1.00	137.05	A16S
ATOM	9766	N7	G	A 475	94.075	73.257	26.668	1.00	137.05	A16S
ATOM	9767	C8	G	A 475	93.629	74.270	27.357	1.00	137.05	A16S
ATOM	9768	C2*	G	A 475	93.716	74.991	30.835	1.00	80.99	A16S
ATOM	9769	O2*	G	A 475	93.001	74.977	32.053	1.00	80.99	A16S
ATOM	9770	C3*	G	A 475	94.412	76.311	30.496	1.00	80.99	A16S
ATOM	9771	O3*	G	A 475	94.875	77.005	31.655	1.00	80.99	A16S
ATOM	9772	P	G	A 476	96.302	76.624	32.307	1.00	102.59	A16S

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ATOM	9773	O1P	G	A	476	96.589	77.605	33.389	1.00135.62	A16S
ATOM	9774	O2P	G	A	476	97.286	76.436	31.211	1.00135.62	A16S
ATOM	9775	O5*	G	A	476	96.057	75.211	32.995	1.00102.59	A16S
ATOM	9776	C5*	G	A	476	95.285	75.105	34.196	1.00102.59	A16S
ATOM	9777	C4*	G	A	476	95.309	73.687	34.698	1.00102.59	A16S
ATOM	9778	O4*	G	A	476	94.630	72.822	33.752	1.00102.59	A16S
ATOM	9779	C1*	G	A	476	95.262	71.553	33.736	1.00102.59	A16S
ATOM	9780	N9	G	A	476	95.738	71.283	32.384	1.00135.62	A16S
ATOM	9781	C4	G	A	476	96.255	70.092	31.936	1.00135.62	A16S
ATOM	9782	N3	G	A	476	96.391	68.966	32.665	1.00135.62	A16S
ATOM	9783	C2	G	A	476	96.926	67.984	31.964	1.00135.62	A16S
ATOM	9784	N2	G	A	476	97.128	66.790	32.534	1.00135.62	A16S
ATOM	9785	N1	G	A	476	97.305	68.100	30.653	1.00135.62	A16S
ATOM	9786	C6	G	A	476	97.178	69.251	29.882	1.00135.62	A16S
ATOM	9787	O6	G	A	476	97.559	69.248	28.705	1.00135.62	A16S
ATOM	9788	C5	G	A	476	96.596	70.313	30.622	1.00135.62	A16S
ATOM	9789	N7	G	A	476	96.288	71.613	30.244	1.00135.62	A16S
ATOM	9790	C8	G	A	476	95.781	72.150	31.319	1.00135.62	A16S
ATOM	9791	C2*	G	A	476	96.414	71.584	34.743	1.00102.59	A16S
ATOM	9792	O2*	G	A	476	95.998	71.012	35.967	1.00102.59	A16S
ATOM	9793	C3*	G	A	476	96.692	73.077	34.848	1.00102.59	A16S
ATOM	9794	O3*	G	A	476	97.300	73.435	36.083	1.00102.59	A16S
ATOM	9795	P	G	A	477	98.903	73.387	36.226	1.00115.32	A16S
ATOM	9796	O1P	G	A	477	99.248	73.975	37.548	1.00140.29	A16S
ATOM	9797	O2P	G	A	477	99.510	73.955	34.989	1.00140.29	A16S
ATOM	9798	O5*	G	A	477	99.222	71.829	36.288	1.00115.32	A16S
ATOM	9799	C5*	G	A	477	98.573	70.994	37.257	1.00115.32	A16S
ATOM	9800	C4*	G	A	477	98.903	69.550	36.999	1.00115.32	A16S
ATOM	9801	O4*	G	A	477	98.314	69.118	35.747	1.00115.32	A16S
ATOM	9802	C1*	G	A	477	99.181	68.199	35.102	1.00115.32	A16S
ATOM	9803	N9	G	A	477	99.525	68.734	33.788	1.00140.29	A16S
ATOM	9804	C4	G	A	477	100.047	68.032	32.725	1.00140.29	A16S
ATOM	9805	N3	G	A	477	100.341	66.715	32.711	1.00140.29	A16S
ATOM	9806	C2	G	A	477	100.831	66.331	31.544	1.00140.29	A16S
ATOM	9807	N2	G	A	477	101.188	65.055	31.356	1.00140.29	A16S
ATOM	9808	N1	G	A	477	101.011	67.170	30.475	1.00140.29	A16S
ATOM	9809	C6	G	A	477	100.714	68.528	30.464	1.00140.29	A16S
ATOM	9810	O6	G	A	477	100.913	69.196	29.441	1.00140.29	A16S
ATOM	9811	C5	G	A	477	100.194	68.956	31.713	1.00140.29	A16S
ATOM	9812	N7	G	A	477	99.777	70.213	32.129	1.00140.29	A16S
ATOM	9813	C8	G	A	477	99.391	70.035	33.362	1.00140.29	A16S
ATOM	9814	C2*	G	A	477	100.399	67.991	36.005	1.00115.32	A16S
ATOM	9815	O2*	G	A	477	100.221	66.821	36.776	1.00115.32	A16S
ATOM	9816	C3*	G	A	477	100.383	69.264	36.845	1.00115.32	A16S
ATOM	9817	O3*	G	A	477	101.009	69.119	38.110	1.00115.32	A16S
ATOM	9818	P	A	A	478	102.583	69.394	38.246	1.00106.46	A16S
ATOM	9819	O1P	A	A	478	102.904	69.400	39.694	1.00140.24	A16S
ATOM	9820	O2P	A	A	478	102.925	70.580	37.417	1.00140.24	A16S
ATOM	9821	O5*	A	A	478	103.232	68.091	37.594	1.00106.46	A16S
ATOM	9822	C5*	A	A	478	102.927	66.786	38.129	1.00106.46	A16S
ATOM	9823	C4*	A	A	478	103.435	65.688	37.218	1.00106.46	A16S
ATOM	9824	O4*	A	A	478	102.679	65.660	35.980	1.00106.46	A16S
ATOM	9825	C1*	A	A	478	103.518	65.218	34.922	1.00106.46	A16S
ATOM	9826	N9	A	A	478	103.553	66.256	33.888	1.00140.24	A16S
ATOM	9827	C4	A	A	478	104.094	66.128	32.628	1.00140.24	A16S
ATOM	9828	N3	A	A	478	104.698	65.047	32.104	1.00140.24	A16S
ATOM	9829	C2	A	A	478	105.096	65.289	30.859	1.00140.24	A16S
ATOM	9830	N1	A	A	478	104.970	66.403	30.130	1.00140.24	A16S
ATOM	9831	C6	A	A	478	104.361	67.473	30.684	1.00140.24	A16S
ATOM	9832	N6	A	A	478	104.237	68.588	29.957	1.00140.24	A16S
ATOM	9833	C5	A	A	478	103.891	67.346	32.005	1.00140.24	A16S
ATOM	9834	N7	A	A	478	103.239	68.231	32.855	1.00140.24	A16S
ATOM	9835	C8	A	A	478	103.064	67.540	33.955	1.00140.24	A16S
ATOM	9836	C2*	A	A	478	104.897	64.915	35.511	1.00106.46	A16S
ATOM	9837	O2*	A	A	478	105.006	63.527	35.770	1.00106.46	A16S
ATOM	9838	C3*	A	A	478	104.886	65.767	36.777	1.00106.46	A16S
ATOM	9839	O3*	A	A	478	105.772	65.273	37.768	1.00106.46	A16S
ATOM	9840	P	C	A	479	107.271	65.842	37.834	1.00104.20	A16S
ATOM	9841	O1P	C	A	479	107.813	65.536	39.186	1.00 96.67	A16S
ATOM	9842	O2P	C	A	479	107.239	67.256	37.356	1.00 96.67	A16S
ATOM	9843	O5*	C	A	479	108.051	64.945	36.773	1.00104.20	A16S
ATOM	9844	C5*	C	A	479	108.022	63.505	36.873	1.00104.20	A16S
ATOM	9845	C4*	C	A	479	108.792	62.877	35.734	1.00104.20	A16S
ATOM	9846	O4*	C	A	479	108.040	62.975	34.495	1.00104.20	A16S
ATOM	9847	C1*	C	A	479	108.931	63.208	33.412	1.00104.20	A16S
ATOM	9848	N1	C	A	479	108.626	64.532	32.824	1.00 96.67	A16S
ATOM	9849	C6	C	A	479	108.033	65.515	33.570	1.00 96.67	A16S

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ATOM	9850	C2	C	A	479	108.971	64.776	31.483	1.00	96.67	A16S
ATOM	9851	O2	C	A	479	109.506	63.869	30.817	1.00	96.67	A16S
ATOM	9852	N3	C	A	479	108.718	65.994	30.953	1.00	96.67	A16S
ATOM	9853	C4	C	A	479	108.153	66.945	31.699	1.00	96.67	A16S
ATOM	9854	N4	C	A	479	107.942	68.134	31.137	1.00	96.67	A16S
ATOM	9855	C5	C	A	479	107.785	66.722	33.053	1.00	96.67	A16S
ATOM	9856	C2*	C	A	479	110.354	63.161	33.969	1.00	104.20	A16S
ATOM	9857	O2*	C	A	479	110.894	61.869	33.795	1.00	104.20	A16S
ATOM	9858	C3*	C	A	479	110.122	63.534	35.427	1.00	104.20	A16S
ATOM	9859	O3*	C	A	479	111.150	63.102	36.296	1.00	104.20	A16S
ATOM	9860	P	U	A	480	112.308	64.137	36.708	1.00	84.86	A16S
ATOM	9861	O1P	U	A	480	113.211	63.436	37.668	1.00	93.90	A16S
ATOM	9862	O2P	U	A	480	111.679	65.437	37.093	1.00	93.90	A16S
ATOM	9863	O5*	U	A	480	113.092	64.366	35.336	1.00	84.86	A16S
ATOM	9864	C5*	U	A	480	113.565	63.238	34.559	1.00	84.86	A16S
ATOM	9865	C4*	U	A	480	114.076	63.689	33.205	1.00	84.86	A16S
ATOM	9866	O4*	U	A	480	112.979	64.096	32.346	1.00	84.86	A16S
ATOM	9867	C1*	U	A	480	113.412	65.141	31.492	1.00	84.86	A16S
ATOM	9868	N1	U	A	480	112.609	66.342	31.771	1.00	93.90	A16S
ATOM	9869	C6	U	A	480	112.117	66.609	33.030	1.00	93.90	A16S
ATOM	9870	C2	U	A	480	112.374	67.213	30.724	1.00	93.90	A16S
ATOM	9871	O2	U	A	480	112.778	67.011	29.593	1.00	93.90	A16S
ATOM	9872	N3	U	A	480	111.649	68.332	31.048	1.00	93.90	A16S
ATOM	9873	C4	U	A	480	111.142	68.661	32.280	1.00	93.90	A16S
ATOM	9874	O4	U	A	480	110.545	69.726	32.419	1.00	93.90	A16S
ATOM	9875	C5	U	A	480	111.411	67.708	33.311	1.00	93.90	A16S
ATOM	9876	C2*	U	A	480	114.894	65.384	31.777	1.00	84.86	A16S
ATOM	9877	O2*	U	A	480	115.681	64.606	30.903	1.00	84.86	A16S
ATOM	9878	C3*	U	A	480	115.017	64.878	33.201	1.00	84.86	A16S
ATOM	9879	O3*	U	A	480	116.339	64.499	33.486	1.00	84.86	A16S
ATOM	9880	P	G	A	481	117.154	65.296	34.607	1.00	96.47	A16S
ATOM	9881	O1P	G	A	481	116.826	64.704	35.920	1.00	97.05	A16S
ATOM	9882	O2P	G	A	481	116.954	66.747	34.400	1.00	97.05	A16S
ATOM	9883	O5*	G	A	481	118.659	64.909	34.284	1.00	96.47	A16S
ATOM	9884	C5*	G	A	481	119.721	65.844	34.481	1.00	96.47	A16S
ATOM	9885	C4*	G	A	481	120.054	66.497	33.175	1.00	96.47	A16S
ATOM	9886	O4*	G	A	481	118.997	67.409	32.807	1.00	96.47	A16S
ATOM	9887	C1*	G	A	481	119.535	68.432	32.003	1.00	96.47	A16S
ATOM	9888	N9	G	A	481	118.978	69.723	32.384	1.00	97.05	A16S
ATOM	9889	C4	G	A	481	118.615	70.728	31.519	1.00	97.05	A16S
ATOM	9890	N3	G	A	481	118.806	70.730	30.188	1.00	97.05	A16S
ATOM	9891	C2	G	A	481	118.303	71.807	29.623	1.00	97.05	A16S
ATOM	9892	N2	G	A	481	118.433	71.986	28.303	1.00	97.05	A16S
ATOM	9893	N1	G	A	481	117.640	72.792	30.307	1.00	97.05	A16S
ATOM	9894	C6	G	A	481	117.424	72.803	31.678	1.00	97.05	A16S
ATOM	9895	O6	G	A	481	116.783	73.729	32.199	1.00	97.05	A16S
ATOM	9896	C5	G	A	481	117.991	71.670	32.298	1.00	97.05	A16S
ATOM	9897	N7	G	A	481	118.029	71.305	33.634	1.00	97.05	A16S
ATOM	9898	C8	G	A	481	118.639	70.152	33.639	1.00	97.05	A16S
ATOM	9899	C2*	G	A	481	121.045	68.277	31.976	1.00	96.47	A16S
ATOM	9900	O2*	G	A	481	121.237	67.593	30.759	1.00	96.47	A16S
ATOM	9901	C3*	G	A	481	121.306	67.345	33.155	1.00	96.47	A16S
ATOM	9902	O3*	G	A	481	122.374	66.489	32.791	1.00	96.47	A16S
ATOM	9903	P	A	A	482	123.246	65.754	33.915	1.00	61.71	A16S
ATOM	9904	O1P	A	A	482	122.754	64.352	33.969	1.00	70.65	A16S
ATOM	9905	O2P	A	A	482	123.262	66.580	35.156	1.00	70.65	A16S
ATOM	9906	O5*	A	A	482	124.714	65.757	33.287	1.00	61.71	A16S
ATOM	9907	C5*	A	A	482	125.203	64.641	32.505	1.00	61.71	A16S
ATOM	9908	C4*	A	A	482	126.078	65.123	31.366	1.00	61.71	A16S
ATOM	9909	O4*	A	A	482	125.276	65.492	30.224	1.00	61.71	A16S
ATOM	9910	C1*	A	A	482	125.909	66.551	29.527	1.00	61.71	A16S
ATOM	9911	N9	A	A	482	124.965	67.655	29.423	1.00	70.65	A16S
ATOM	9912	C4	A	A	482	125.117	68.828	28.728	1.00	70.65	A16S
ATOM	9913	N3	A	A	482	126.174	69.216	27.997	1.00	70.65	A16S
ATOM	9914	C2	A	A	482	125.950	70.418	27.460	1.00	70.65	A16S
ATOM	9915	N1	A	A	482	124.870	71.213	27.569	1.00	70.65	A16S
ATOM	9916	C6	A	A	482	123.833	70.784	28.318	1.00	70.65	A16S
ATOM	9917	N6	A	A	482	122.755	71.565	28.442	1.00	70.65	A16S
ATOM	9918	C5	A	A	482	123.947	69.535	28.929	1.00	70.65	A16S
ATOM	9919	N7	A	A	482	123.084	68.825	29.732	1.00	70.65	A16S
ATOM	9920	C8	A	A	482	123.736	67.723	29.998	1.00	70.65	A16S
ATOM	9921	C2*	A	A	482	127.195	66.920	30.266	1.00	61.71	A16S
ATOM	9922	O2*	A	A	482	128.302	66.350	29.597	1.00	61.71	A16S
ATOM	9923	C3*	A	A	482	126.944	66.336	31.651	1.00	61.71	A16S
ATOM	9924	O3*	A	A	482	128.154	65.959	32.280	1.00	61.71	A16S
ATOM	9925	P	C	A	483	128.769	66.897	33.423	1.00	51.98	A16S
ATOM	9926	O1P	C	A	483	130.146	66.420	33.741	1.00	75.29	A16S

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ATOM	9927	O2P	C	A	483	127.750	66.993	34.508	1.00	75.29	A16S
ATOM	9928	O5*	C	A	483	128.889	68.323	32.717	1.00	51.98	A16S
ATOM	9929	C5*	C	A	483	129.842	68.538	31.653	1.00	51.98	A16S
ATOM	9930	C4*	C	A	483	129.660	69.911	31.047	1.00	51.98	A16S
ATOM	9931	O4*	C	A	483	128.359	69.990	30.421	1.00	51.98	A16S
ATOM	9932	C1*	C	A	483	127.832	71.292	30.587	1.00	51.98	A16S
ATOM	9933	N1	C	A	483	126.579	71.176	31.341	1.00	75.29	A16S
ATOM	9934	C6	C	A	483	126.426	70.222	32.313	1.00	75.29	A16S
ATOM	9935	C2	C	A	483	125.543	72.057	31.049	1.00	75.29	A16S
ATOM	9936	O2	C	A	483	125.719	72.919	30.177	1.00	75.29	A16S
ATOM	9937	N3	C	A	483	124.377	71.954	31.725	1.00	75.29	A16S
ATOM	9938	C4	C	A	483	124.234	71.018	32.669	1.00	75.29	A16S
ATOM	9939	N4	C	A	483	123.061	70.947	33.307	1.00	75.29	A16S
ATOM	9940	C5	C	A	483	125.285	70.111	32.997	1.00	75.29	A16S
ATOM	9941	C2*	C	A	483	128.883	72.142	31.304	1.00	51.98	A16S
ATOM	9942	O2*	C	A	483	129.653	72.856	30.359	1.00	51.98	A16S
ATOM	9943	C3*	C	A	483	129.703	71.080	32.017	1.00	51.98	A16S
ATOM	9944	O3*	C	A	483	131.029	71.521	32.199	1.00	51.98	A16S
ATOM	9945	P	G	A	484	131.449	72.221	33.578	1.00	77.43	A16S
ATOM	9946	O1P	G	A	484	130.619	73.441	33.744	1.00	73.95	A16S
ATOM	9947	O2P	G	A	484	132.932	72.332	33.616	1.00	73.95	A16S
ATOM	9948	O5*	G	A	484	130.987	71.168	34.672	1.00	77.43	A16S
ATOM	9949	C5*	G	A	484	131.359	71.321	36.047	1.00	77.43	A16S
ATOM	9950	C4*	G	A	484	130.237	70.845	36.923	1.00	77.43	A16S
ATOM	9951	O4*	G	A	484	129.180	71.843	36.932	1.00	77.43	A16S
ATOM	9952	C1*	G	A	484	127.929	71.242	36.645	1.00	77.43	A16S
ATOM	9953	N9	G	A	484	127.159	72.189	35.834	1.00	73.95	A16S
ATOM	9954	C4	G	A	484	125.816	72.509	35.964	1.00	73.95	A16S
ATOM	9955	N3	G	A	484	124.955	71.997	36.869	1.00	73.95	A16S
ATOM	9956	C2	G	A	484	123.743	72.512	36.745	1.00	73.95	A16S
ATOM	9957	N2	G	A	484	122.771	72.128	37.577	1.00	73.95	A16S
ATOM	9958	N1	G	A	484	123.396	73.443	35.802	1.00	73.95	A16S
ATOM	9959	C6	G	A	484	124.260	73.982	34.862	1.00	73.95	A16S
ATOM	9960	O6	G	A	484	123.846	74.815	34.063	1.00	73.95	A16S
ATOM	9961	C5	G	A	484	125.567	73.450	34.984	1.00	73.95	A16S
ATOM	9962	N7	G	A	484	126.718	73.718	34.255	1.00	73.95	A16S
ATOM	9963	C8	G	A	484	127.632	72.950	34.789	1.00	73.95	A16S
ATOM	9964	C2*	G	A	484	128.206	69.908	35.944	1.00	77.43	A16S
ATOM	9965	O2*	G	A	484	127.216	68.956	36.281	1.00	77.43	A16S
ATOM	9966	C3*	G	A	484	129.595	69.541	36.470	1.00	77.43	A16S
ATOM	9967	O3*	G	A	484	129.916	68.325	37.176	1.00	77.43	A16S
ATOM	9968	P	G	A	485	129.534	68.150	38.733	1.00	90.59	A16S
ATOM	9969	O1P	G	A	485	129.749	66.716	39.052	1.00	95.75	A16S
ATOM	9970	O2P	G	A	485	128.197	68.765	38.997	1.00	95.75	A16S
ATOM	9971	O5*	G	A	485	130.672	68.992	39.479	1.00	90.59	A16S
ATOM	9972	C5*	G	A	485	130.543	69.380	40.871	1.00	90.59	A16S
ATOM	9973	C4*	G	A	485	129.789	70.685	40.970	1.00	90.59	A16S
ATOM	9974	O4*	G	A	485	128.471	70.449	41.506	1.00	90.59	A16S
ATOM	9975	C1*	G	A	485	127.955	71.683	41.915	1.00	90.59	A16S
ATOM	9976	N9	G	A	485	127.052	71.523	43.041	1.00	95.75	A16S
ATOM	9977	C4	G	A	485	125.800	72.057	43.086	1.00	95.75	A16S
ATOM	9978	N3	G	A	485	125.237	72.792	42.112	1.00	95.75	A16S
ATOM	9979	C2	G	A	485	124.025	73.176	42.419	1.00	95.75	A16S
ATOM	9980	N2	G	A	485	123.347	73.915	41.544	1.00	95.75	A16S
ATOM	9981	N1	G	A	485	123.396	72.863	43.600	1.00	95.75	A16S
ATOM	9982	C6	G	A	485	123.956	72.107	44.629	1.00	95.75	A16S
ATOM	9983	O6	G	A	485	123.300	71.886	45.665	1.00	95.75	A16S
ATOM	9984	C5	G	A	485	125.279	71.684	44.300	1.00	95.75	A16S
ATOM	9985	N7	G	A	485	126.198	70.924	45.014	1.00	95.75	A16S
ATOM	9986	C8	G	A	485	127.239	70.855	44.225	1.00	95.75	A16S
ATOM	9987	C2*	G	A	485	129.107	72.661	42.120	1.00	90.59	A16S
ATOM	9988	O2*	G	A	485	128.963	73.687	41.163	1.00	90.59	A16S
ATOM	9989	C3*	G	A	485	130.340	71.794	41.859	1.00	90.59	A16S
ATOM	9990	O3*	G	A	485	131.321	72.534	41.121	1.00	90.59	A16S
ATOM	9991	P	U	A	486	131.776	74.014	41.595	1.00	92.00	A16S
ATOM	9992	O1P	U	A	486	133.198	73.893	42.018	1.00	70.38	A16S
ATOM	9993	O2P	U	A	486	130.798	74.619	42.529	1.00	70.38	A16S
ATOM	9994	O5*	U	A	486	131.717	74.872	40.250	1.00	92.00	A16S
ATOM	9995	C5*	U	A	486	132.771	74.782	39.273	1.00	92.00	A16S
ATOM	9996	C4*	U	A	486	132.314	75.330	37.943	1.00	92.00	A16S
ATOM	9997	O4*	U	A	486	131.220	74.531	37.431	1.00	92.00	A16S
ATOM	9998	C1*	U	A	486	130.352	75.352	36.669	1.00	92.00	A16S
ATOM	9999	N1	U	A	486	128.983	75.228	37.191	1.00	70.38	A16S
ATOM	10000	C6	U	A	486	128.712	74.586	38.372	1.00	70.38	A16S
ATOM	10001	C2	U	A	486	127.967	75.794	36.447	1.00	70.38	A16S
ATOM	10002	O2	U	A	486	128.163	76.354	35.385	1.00	70.38	A16S
ATOM	10003	N3	U	A	486	126.713	75.676	36.990	1.00	70.38	A16S

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ATOM	10004	C4	U	A	486	126.382	75.057	38.170	1.00	70.38	A16S
ATOM	10005	O4	U	A	486	125.216	75.067	38.550	1.00	70.38	A16S
ATOM	10006	C5	U	A	486	127.480	74.483	38.870	1.00	70.38	A16S
ATOM	10007	C2*	U	A	486	130.887	76.785	36.707	1.00	92.00	A16S
ATOM	10008	O2*	U	A	486	131.577	77.041	35.501	1.00	92.00	A16S
ATOM	10009	C3*	U	A	486	131.788	76.757	37.939	1.00	92.00	A16S
ATOM	10010	O3*	U	A	486	132.862	77.687	37.825	1.00	92.00	A16S
ATOM	10011	P	A	A	487	132.662	79.203	38.327	1.00	77.96	A16S
ATOM	10012	O1P	A	A	487	133.865	79.983	37.901	1.00	81.41	A16S
ATOM	10013	O2P	A	A	487	132.288	79.155	39.770	1.00	81.41	A16S
ATOM	10014	O5*	A	A	487	131.403	79.724	37.497	1.00	77.96	A16S
ATOM	10015	C5*	A	A	487	131.539	80.086	36.115	1.00	77.96	A16S
ATOM	10016	C4*	A	A	487	130.338	80.869	35.660	1.00	77.96	A16S
ATOM	10017	O4*	A	A	487	129.170	80.022	35.714	1.00	77.96	A16S
ATOM	10018	C1*	A	A	487	128.042	80.790	36.084	1.00	77.96	A16S
ATOM	10019	N9	A	A	487	127.477	80.209	37.299	1.00	81.41	A16S
ATOM	10020	C4	A	A	487	126.220	80.448	37.785	1.00	81.41	A16S
ATOM	10021	N3	A	A	487	125.297	81.268	37.268	1.00	81.41	A16S
ATOM	10022	C2	A	A	487	124.191	81.240	37.998	1.00	81.41	A16S
ATOM	10023	N1	A	A	487	123.919	80.532	39.098	1.00	81.41	A16S
ATOM	10024	C6	A	A	487	124.869	79.712	39.587	1.00	81.41	A16S
ATOM	10025	N6	A	A	487	124.592	78.991	40.675	1.00	81.41	A16S
ATOM	10026	C5	A	A	487	126.094	79.661	38.912	1.00	81.41	A16S
ATOM	10027	N7	A	A	487	127.263	78.953	39.151	1.00	81.41	A16S
ATOM	10028	C8	A	A	487	128.053	79.314	38.171	1.00	81.41	A16S
ATOM	10029	C2*	A	A	487	128.490	82.240	36.253	1.00	77.96	A16S
ATOM	10030	O2*	A	A	487	128.221	82.940	35.061	1.00	77.96	A16S
ATOM	10031	C3*	A	A	487	129.982	82.076	36.506	1.00	77.96	A16S
ATOM	10032	O3*	A	A	487	130.705	83.214	36.071	1.00	77.96	A16S
ATOM	10033	P	C	A	488	131.178	84.307	37.142	1.00	80.40	A16S
ATOM	10034	O1P	C	A	488	131.703	85.468	36.370	1.00	68.87	A16S
ATOM	10035	O2P	C	A	488	132.060	83.631	38.142	1.00	68.87	A16S
ATOM	10036	O5*	C	A	488	129.815	84.727	37.855	1.00	80.40	A16S
ATOM	10037	C5*	C	A	488	128.776	85.429	37.135	1.00	80.40	A16S
ATOM	10038	C4*	C	A	488	127.520	85.501	37.974	1.00	80.40	A16S
ATOM	10039	O4*	C	A	488	126.986	84.158	38.116	1.00	80.40	A16S
ATOM	10040	C1*	C	A	488	126.494	83.969	39.435	1.00	80.40	A16S
ATOM	10041	N1	C	A	488	127.325	82.937	40.093	1.00	68.87	A16S
ATOM	10042	C6	C	A	488	128.653	82.805	39.782	1.00	68.87	A16S
ATOM	10043	C2	C	A	488	126.736	82.086	41.039	1.00	68.87	A16S
ATOM	10044	O2	C	A	488	125.540	82.254	41.338	1.00	68.87	A16S
ATOM	10045	N3	C	A	488	127.492	81.107	41.607	1.00	68.87	A16S
ATOM	10046	C4	C	A	488	128.784	80.975	41.273	1.00	68.87	A16S
ATOM	10047	N4	C	A	488	129.489	79.982	41.828	1.00	68.87	A16S
ATOM	10048	C5	C	A	488	129.411	81.852	40.345	1.00	68.87	A16S
ATOM	10049	C2*	C	A	488	126.582	85.314	40.153	1.00	80.40	A16S
ATOM	10050	O2*	C	A	488	125.370	86.031	40.025	1.00	80.40	A16S
ATOM	10051	C3*	C	A	488	127.725	85.980	39.405	1.00	80.40	A16S
ATOM	10052	O3*	C	A	488	127.717	87.392	39.569	1.00	80.40	A16S
ATOM	10053	P	C	A	489	128.393	88.033	40.886	1.00	76.22	A16S
ATOM	10054	O1P	C	A	489	128.381	89.508	40.711	1.00	72.58	A16S
ATOM	10055	O2P	C	A	489	129.686	87.329	41.157	1.00	72.58	A16S
ATOM	10056	O5*	C	A	489	127.375	87.666	42.059	1.00	76.22	A16S
ATOM	10057	C5*	C	A	489	126.033	88.200	42.073	1.00	76.22	A16S
ATOM	10058	C4*	C	A	489	125.296	87.750	43.315	1.00	76.22	A16S
ATOM	10059	O4*	C	A	489	125.018	86.327	43.236	1.00	76.22	A16S
ATOM	10060	C1*	C	A	489	125.157	85.738	44.521	1.00	76.22	A16S
ATOM	10061	N1	C	A	489	126.278	84.774	44.476	1.00	72.58	A16S
ATOM	10062	C6	C	A	489	127.220	84.840	43.486	1.00	72.58	A16S
ATOM	10063	C2	C	A	489	126.377	83.794	45.478	1.00	72.58	A16S
ATOM	10064	O2	C	A	489	125.502	83.735	46.361	1.00	72.58	A16S
ATOM	10065	N3	C	A	489	127.426	82.936	45.458	1.00	72.58	A16S
ATOM	10066	C4	C	A	489	128.346	83.026	44.494	1.00	72.58	A16S
ATOM	10067	N4	C	A	489	129.371	82.174	44.526	1.00	72.58	A16S
ATOM	10068	C5	C	A	489	128.258	83.996	43.458	1.00	72.58	A16S
ATOM	10069	C2*	C	A	489	125.429	86.868	45.518	1.00	76.22	A16S
ATOM	10070	O2*	C	A	489	124.219	87.295	46.113	1.00	76.22	A16S
ATOM	10071	C3*	C	A	489	126.057	87.924	44.618	1.00	76.22	A16S
ATOM	10072	O3*	C	A	489	125.944	89.236	45.145	1.00	76.22	A16S
ATOM	10073	P	G	A	490	127.114	89.813	46.086	1.00	79.29	A16S
ATOM	10074	O1P	G	A	490	126.809	91.246	46.309	1.00	91.74	A16S
ATOM	10075	O2P	G	A	490	128.440	89.425	45.541	1.00	91.74	A16S
ATOM	10076	O5*	G	A	490	126.920	89.017	47.452	1.00	79.29	A16S
ATOM	10077	C5*	G	A	490	125.730	89.185	48.257	1.00	79.29	A16S
ATOM	10078	C4*	G	A	490	125.834	88.356	49.515	1.00	79.29	A16S
ATOM	10079	O4*	G	A	490	125.687	86.951	49.183	1.00	79.29	A16S
ATOM	10080	C1*	G	A	490	126.566	86.173	49.985	1.00	79.29	A16S

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ATOM	10081	N9	G	A	490	127.539	85.530	49.104	1.00	91.74	A16S
ATOM	10082	C4	G	A	490	128.387	84.490	49.423	1.00	91.74	A16S
ATOM	10083	N3	G	A	490	128.428	83.824	50.598	1.00	91.74	A16S
ATOM	10084	C2	G	A	490	129.383	82.905	50.613	1.00	91.74	A16S
ATOM	10085	N2	G	A	490	129.559	82.137	51.693	1.00	91.74	A16S
ATOM	10086	N1	G	A	490	130.237	82.668	49.568	1.00	91.74	A16S
ATOM	10087	C6	G	A	490	130.220	83.347	48.354	1.00	91.74	A16S
ATOM	10088	O6	G	A	490	131.057	83.073	47.483	1.00	91.74	A16S
ATOM	10089	C5	G	A	490	129.185	84.319	48.313	1.00	91.74	A16S
ATOM	10090	N7	G	A	490	128.813	85.191	47.299	1.00	91.74	A16S
ATOM	10091	C8	G	A	490	127.830	85.881	47.808	1.00	91.74	A16S
ATOM	10092	C2*	G	A	490	127.270	87.123	50.960	1.00	79.29	A16S
ATOM	10093	O2*	G	A	490	126.624	87.142	52.218	1.00	79.29	A16S
ATOM	10094	C3*	G	A	490	127.179	88.446	50.217	1.00	79.29	A16S
ATOM	10095	O3*	G	A	490	127.274	89.560	51.083	1.00	79.29	A16S
ATOM	10096	P	G	A	491	128.721	90.166	51.426	1.00	75.67	A16S
ATOM	10097	O1P	G	A	491	128.492	91.426	52.181	1.00	120.80	A16S
ATOM	10098	O2P	G	A	491	129.520	90.196	50.174	1.00	120.80	A16S
ATOM	10099	O5*	G	A	491	129.363	89.098	52.425	1.00	75.67	A16S
ATOM	10100	C5*	G	A	491	128.817	88.912	53.753	1.00	75.67	A16S
ATOM	10101	C4*	G	A	491	129.568	87.832	54.498	1.00	75.67	A16S
ATOM	10102	O4*	G	A	491	129.325	86.543	53.879	1.00	75.67	A16S
ATOM	10103	C1*	G	A	491	130.498	85.748	53.957	1.00	75.67	A16S
ATOM	10104	N9	G	A	491	130.950	85.455	52.600	1.00	120.80	A16S
ATOM	10105	C4	G	A	491	131.950	84.579	52.237	1.00	120.80	A16S
ATOM	10106	N3	G	A	491	132.672	83.805	53.074	1.00	120.80	A16S
ATOM	10107	C2	G	A	491	133.582	83.097	52.427	1.00	120.80	A16S
ATOM	10108	N2	G	A	491	134.390	82.278	53.104	1.00	120.80	A16S
ATOM	10109	N1	G	A	491	133.768	83.143	51.067	1.00	120.80	A16S
ATOM	10110	C6	G	A	491	133.036	83.932	50.186	1.00	120.80	A16S
ATOM	10111	O6	G	A	491	133.289	83.907	48.971	1.00	120.80	A16S
ATOM	10112	C5	G	A	491	132.055	84.695	50.866	1.00	120.80	A16S
ATOM	10113	N7	G	A	491	131.125	85.599	50.375	1.00	120.80	A16S
ATOM	10114	C8	G	A	491	130.489	86.019	51.435	1.00	120.80	A16S
ATOM	10115	C2*	G	A	491	131.550	86.545	54.729	1.00	75.67	A16S
ATOM	10116	O2*	G	A	491	131.522	86.158	56.082	1.00	75.67	A16S
ATOM	10117	C3*	G	A	491	131.079	87.978	54.520	1.00	75.67	A16S
ATOM	10118	O3*	G	A	491	131.509	88.835	55.567	1.00	75.67	A16S
ATOM	10119	P	G	A	492	132.958	89.536	55.479	1.00	74.50	A16S
ATOM	10120	O1P	G	A	492	133.121	90.369	56.702	1.00	116.80	A16S
ATOM	10121	O2P	G	A	492	133.108	90.164	54.140	1.00	116.80	A16S
ATOM	10122	O5*	G	A	492	133.986	88.324	55.588	1.00	74.50	A16S
ATOM	10123	C5*	G	A	492	134.056	87.537	56.786	1.00	74.50	A16S
ATOM	10124	C4*	G	A	492	135.126	86.487	56.664	1.00	74.50	A16S
ATOM	10125	O4*	G	A	492	134.762	85.520	55.652	1.00	74.50	A16S
ATOM	10126	C1*	G	A	492	135.926	85.084	54.972	1.00	74.50	A16S
ATOM	10127	N9	G	A	492	135.755	85.347	53.544	1.00	116.80	A16S
ATOM	10128	C4	G	A	492	136.634	85.025	52.536	1.00	116.80	A16S
ATOM	10129	N3	G	A	492	137.838	84.442	52.691	1.00	116.80	A16S
ATOM	10130	C2	G	A	492	138.448	84.260	51.534	1.00	116.80	A16S
ATOM	10131	N2	G	A	492	139.662	83.701	51.505	1.00	116.80	A16S
ATOM	10132	N1	G	A	492	137.917	84.613	50.320	1.00	116.80	A16S
ATOM	10133	C6	G	A	492	136.678	85.212	50.134	1.00	116.80	A16S
ATOM	10134	O6	G	A	492	136.288	85.483	48.990	1.00	116.80	A16S
ATOM	10135	C5	G	A	492	136.016	85.425	51.370	1.00	116.80	A16S
ATOM	10136	N7	G	A	492	134.785	86.003	51.640	1.00	116.80	A16S
ATOM	10137	C8	G	A	492	134.677	85.943	52.938	1.00	116.80	A16S
ATOM	10138	C2*	G	A	492	137.132	85.780	55.607	1.00	74.50	A16S
ATOM	10139	O2*	G	A	492	137.699	84.899	56.554	1.00	74.50	A16S
ATOM	10140	C3*	G	A	492	136.490	87.004	56.252	1.00	74.50	A16S
ATOM	10141	O3*	G	A	492	137.198	87.435	57.405	1.00	74.50	A16S
ATOM	10142	P	G	A	494	138.240	88.648	57.295	1.00	76.33	A16S
ATOM	10143	O1P	G	A	494	138.958	88.770	58.598	1.00	91.83	A16S
ATOM	10144	O2P	G	A	494	137.503	89.817	56.752	1.00	91.83	A16S
ATOM	10145	O5*	G	A	494	139.294	88.136	56.218	1.00	76.33	A16S
ATOM	10146	C5*	G	A	494	140.169	87.033	56.515	1.00	76.33	A16S
ATOM	10147	C4*	G	A	494	140.995	86.666	55.300	1.00	76.33	A16S
ATOM	10148	O4*	G	A	494	140.148	86.087	54.276	1.00	76.33	A16S
ATOM	10149	C1*	G	A	494	140.636	86.446	52.998	1.00	76.33	A16S
ATOM	10150	N9	G	A	494	139.583	87.183	52.306	1.00	91.83	A16S
ATOM	10151	C4	G	A	494	139.493	87.427	50.953	1.00	91.83	A16S
ATOM	10152	N3	G	A	494	140.372	87.028	50.012	1.00	91.83	A16S
ATOM	10153	C2	G	A	494	140.009	87.418	48.800	1.00	91.83	A16S
ATOM	10154	N2	G	A	494	140.771	87.117	47.743	1.00	91.83	A16S
ATOM	10155	N1	G	A	494	138.874	88.134	48.534	1.00	91.83	A16S
ATOM	10156	C6	G	A	494	137.955	88.554	49.482	1.00	91.83	A16S
ATOM	10157	O6	G	A	494	136.959	89.195	49.130	1.00	91.83	A16S

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ATOM	10158	C5	G	A	494	138.334	88.150	50.790	1.00	91.83	A16S
ATOM	10159	N7	G	A	494	137.708	88.360	52.010	1.00	91.83	A16S
ATOM	10160	C8	G	A	494	138.482	87.770	52.878	1.00	91.83	A16S
ATOM	10161	C2*	G	A	494	141.919	87.259	53.197	1.00	76.33	A16S
ATOM	10162	O2*	G	A	494	143.038	86.395	53.127	1.00	76.33	A16S
ATOM	10163	C3*	G	A	494	141.729	87.803	54.605	1.00	76.33	A16S
ATOM	10164	O3*	G	A	494	142.980	88.058	55.238	1.00	76.33	A16S
ATOM	10165	P	U	A	495	143.816	89.385	54.866	1.00	79.21	A16S
ATOM	10166	O1P	U	A	495	144.387	89.955	56.124	1.00	87.15	A16S
ATOM	10167	O2P	U	A	495	142.964	90.246	53.993	1.00	87.15	A16S
ATOM	10168	O5*	U	A	495	145.042	88.810	54.025	1.00	79.21	A16S
ATOM	10169	C5*	U	A	495	145.909	87.811	54.591	1.00	79.21	A16S
ATOM	10170	C4*	U	A	495	146.856	87.279	53.542	1.00	79.21	A16S
ATOM	10171	O4*	U	A	495	146.121	86.551	52.530	1.00	79.21	A16S
ATOM	10172	C1*	U	A	495	146.755	86.718	51.277	1.00	79.21	A16S
ATOM	10173	N1	U	A	495	145.803	87.346	50.353	1.00	87.15	A16S
ATOM	10174	C6	U	A	495	144.666	87.964	50.802	1.00	87.15	A16S
ATOM	10175	C2	U	A	495	146.095	87.296	49.010	1.00	87.15	A16S
ATOM	10176	O2	U	A	495	147.094	86.765	48.565	1.00	87.15	A16S
ATOM	10177	N3	U	A	495	145.176	87.891	48.202	1.00	87.15	A16S
ATOM	10178	C4	U	A	495	144.027	88.509	48.584	1.00	87.15	A16S
ATOM	10179	O4	U	A	495	143.260	88.891	47.727	1.00	87.15	A16S
ATOM	10180	C5	U	A	495	143.791	88.535	49.983	1.00	87.15	A16S
ATOM	10181	C2*	U	A	495	147.999	87.582	51.484	1.00	79.21	A16S
ATOM	10182	O2*	U	A	495	149.134	86.751	51.617	1.00	79.21	A16S
ATOM	10183	C3*	U	A	495	147.652	88.316	52.769	1.00	79.21	A16S
ATOM	10184	O3*	U	A	495	148.818	88.682	53.474	1.00	79.21	A16S
ATOM	10185	P	A	A	496	149.286	90.213	53.490	1.00	90.11	A16S
ATOM	10186	O1P	A	A	496	150.479	90.257	54.374	1.00	83.30	A16S
ATOM	10187	O2P	A	A	496	148.111	91.083	53.784	1.00	83.30	A16S
ATOM	10188	O5*	A	A	496	149.774	90.496	52.002	1.00	90.11	A16S
ATOM	10189	C5*	A	A	496	150.800	91.466	51.750	1.00	90.11	A16S
ATOM	10190	C4*	A	A	496	151.254	91.394	50.316	1.00	90.11	A16S
ATOM	10191	O4*	A	A	496	150.114	91.566	49.439	1.00	90.11	A16S
ATOM	10192	C1*	A	A	496	150.351	92.657	48.582	1.00	90.11	A16S
ATOM	10193	N9	A	A	496	149.070	93.275	48.257	1.00	83.30	A16S
ATOM	10194	C4	A	A	496	148.535	93.323	46.994	1.00	83.30	A16S
ATOM	10195	N3	A	A	496	149.083	92.850	45.861	1.00	83.30	A16S
ATOM	10196	C2	A	A	496	148.277	93.059	44.829	1.00	83.30	A16S
ATOM	10197	N1	A	A	496	147.072	93.637	44.799	1.00	83.30	A16S
ATOM	10198	C6	A	A	496	146.549	94.101	45.955	1.00	83.30	A16S
ATOM	10199	N6	A	A	496	145.344	94.674	45.924	1.00	83.30	A16S
ATOM	10200	C5	A	A	496	147.312	93.946	47.125	1.00	83.30	A16S
ATOM	10201	N7	A	A	496	147.084	94.303	48.448	1.00	83.30	A16S
ATOM	10202	C8	A	A	496	148.157	93.886	49.076	1.00	83.30	A16S
ATOM	10203	C2*	A	A	496	151.380	93.538	49.289	1.00	90.11	A16S
ATOM	10204	O2*	A	A	496	152.072	94.371	48.377	1.00	90.11	A16S
ATOM	10205	C3*	A	A	496	152.265	92.478	49.942	1.00	90.11	A16S
ATOM	10206	O3*	A	A	496	153.206	92.020	48.949	1.00	90.11	A16S
ATOM	10207	P	A	A	497	153.840	90.534	49.030	1.00	96.81	A16S
ATOM	10208	O1P	A	A	497	153.682	90.000	50.408	1.00	78.77	A16S
ATOM	10209	O2P	A	A	497	155.201	90.609	48.423	1.00	78.77	A16S
ATOM	10210	O5*	A	A	497	152.888	89.674	48.079	1.00	96.81	A16S
ATOM	10211	C5*	A	A	497	153.226	88.324	47.710	1.00	96.81	A16S
ATOM	10212	C4*	A	A	497	152.481	87.927	46.458	1.00	96.81	A16S
ATOM	10213	O4*	A	A	497	151.063	87.991	46.729	1.00	96.81	A16S
ATOM	10214	C1*	A	A	497	150.371	88.331	45.547	1.00	96.81	A16S
ATOM	10215	N9	A	A	497	149.229	89.189	45.884	1.00	78.77	A16S
ATOM	10216	C4	A	A	497	148.204	89.565	45.044	1.00	78.77	A16S
ATOM	10217	N3	A	A	497	148.074	89.295	43.734	1.00	78.77	A16S
ATOM	10218	C2	A	A	497	146.938	89.805	43.259	1.00	78.77	A16S
ATOM	10219	N1	A	A	497	145.985	90.489	43.895	1.00	78.77	A16S
ATOM	10220	C6	A	A	497	146.142	90.738	45.210	1.00	78.77	A16S
ATOM	10221	N6	A	A	497	145.187	91.407	45.848	1.00	78.77	A16S
ATOM	10222	C5	A	A	497	147.309	90.269	45.832	1.00	78.77	A16S
ATOM	10223	N7	A	A	497	147.776	90.372	47.133	1.00	78.77	A16S
ATOM	10224	C8	A	A	497	148.921	89.730	47.110	1.00	78.77	A16S
ATOM	10225	C2*	A	A	497	151.370	88.797	44.484	1.00	96.81	A16S
ATOM	10226	O2*	A	A	497	151.314	87.923	43.379	1.00	96.81	A16S
ATOM	10227	C3*	A	A	497	152.690	88.847	45.266	1.00	96.81	A16S
ATOM	10228	O3*	A	A	497	153.951	88.595	44.576	1.00	96.81	A16S
ATOM	10229	P	U	A	498	154.198	87.259	43.664	1.00	71.83	A16S
ATOM	10230	O1P	U	A	498	152.994	86.369	43.583	1.00	67.27	A16S
ATOM	10231	O2P	U	A	498	155.492	86.665	44.130	1.00	67.27	A16S
ATOM	10232	O5*	U	A	498	154.509	87.868	42.213	1.00	71.83	A16S
ATOM	10233	C5*	U	A	498	153.660	87.593	41.081	1.00	71.83	A16S
ATOM	10234	C4*	U	A	498	154.475	87.058	39.927	1.00	71.83	A16S

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ATOM	10235	O4*	U	A	498	153.585	86.351	39.037	1.00	71.83	A16S
ATOM	10236	C1*	U	A	498	154.038	86.484	37.707	1.00	71.83	A16S
ATOM	10237	N1	U	A	498	152.957	87.061	36.897	1.00	67.27	A16S
ATOM	10238	C6	U	A	498	151.796	87.509	37.477	1.00	67.27	A16S
ATOM	10239	C2	U	A	498	153.140	87.136	35.522	1.00	67.27	A16S
ATOM	10240	O2	U	A	498	154.154	86.772	34.964	1.00	67.27	A16S
ATOM	10241	N3	U	A	498	152.089	87.665	34.826	1.00	67.27	A16S
ATOM	10242	C4	U	A	498	150.904	88.132	35.348	1.00	67.27	A16S
ATOM	10243	O4	U	A	498	150.075	88.633	34.594	1.00	67.27	A16S
ATOM	10244	C5	U	A	498	150.791	88.028	36.770	1.00	67.27	A16S
ATOM	10245	C2*	U	A	498	155.318	87.317	37.722	1.00	71.83	A16S
ATOM	10246	O2*	U	A	498	156.418	86.433	37.686	1.00	71.83	A16S
ATOM	10247	C3*	U	A	498	155.203	88.063	39.044	1.00	71.83	A16S
ATOM	10248	O3*	U	A	498	156.503	88.381	39.532	1.00	71.83	A16S
ATOM	10249	P	A	A	499	157.240	89.735	39.039	1.00	68.17	A16S
ATOM	10250	O1P	A	A	499	158.623	89.734	39.601	1.00	67.13	A16S
ATOM	10251	O2P	A	A	499	156.337	90.882	39.318	1.00	67.13	A16S
ATOM	10252	O5*	A	A	499	157.364	89.602	37.454	1.00	68.17	A16S
ATOM	10253	C5*	A	A	499	158.401	88.798	36.861	1.00	68.17	A16S
ATOM	10254	C4*	A	A	499	158.676	89.244	35.443	1.00	68.17	A16S
ATOM	10255	O4*	A	A	499	157.462	89.099	34.661	1.00	68.17	A16S
ATOM	10256	C1*	A	A	499	157.240	90.289	33.950	1.00	68.17	A16S
ATOM	10257	N9	A	A	499	155.819	90.419	33.658	1.00	67.13	A16S
ATOM	10258	C4	A	A	499	155.310	90.599	32.398	1.00	67.13	A16S
ATOM	10259	N3	A	A	499	156.002	90.702	31.249	1.00	67.13	A16S
ATOM	10260	C2	A	A	499	155.179	90.861	30.221	1.00	67.13	A16S
ATOM	10261	N1	A	A	499	153.839	90.926	30.210	1.00	67.13	A16S
ATOM	10262	C6	A	A	499	153.175	90.827	31.385	1.00	67.13	A16S
ATOM	10263	N6	A	A	499	151.838	90.905	31.376	1.00	67.13	A16S
ATOM	10264	C5	A	A	499	153.938	90.651	32.550	1.00	67.13	A16S
ATOM	10265	N7	A	A	499	153.589	90.514	33.885	1.00	67.13	A16S
ATOM	10266	C8	A	A	499	154.741	90.382	34.499	1.00	67.13	A16S
ATOM	10267	C2*	A	A	499	157.887	91.397	34.777	1.00	68.17	A16S
ATOM	10268	O2*	A	A	499	158.168	92.523	33.963	1.00	68.17	A16S
ATOM	10269	C3*	A	A	499	159.151	90.690	35.254	1.00	68.17	A16S
ATOM	10270	O3*	A	A	499	160.063	90.777	34.158	1.00	68.17	A16S
ATOM	10271	P	G	A	500	161.553	90.193	34.285	1.00	66.54	A16S
ATOM	10272	O1P	G	A	500	161.588	89.214	35.406	1.00	64.21	A16S
ATOM	10273	O2P	G	A	500	162.525	91.308	34.264	1.00	64.21	A16S
ATOM	10274	O5*	G	A	500	161.715	89.396	32.920	1.00	66.54	A16S
ATOM	10275	C5*	G	A	500	161.013	88.159	32.718	1.00	66.54	A16S
ATOM	10276	C4*	G	A	500	160.280	88.170	31.398	1.00	66.54	A16S
ATOM	10277	O4*	G	A	500	159.180	89.113	31.435	1.00	66.54	A16S
ATOM	10278	C1*	G	A	500	158.989	89.669	30.144	1.00	66.54	A16S
ATOM	10279	N9	G	A	500	159.160	91.114	30.226	1.00	64.21	A16S
ATOM	10280	C4	G	A	500	158.651	92.043	29.350	1.00	64.21	A16S
ATOM	10281	N3	G	A	500	157.879	91.782	28.273	1.00	64.21	A16S
ATOM	10282	C2	G	A	500	157.553	92.889	27.615	1.00	64.21	A16S
ATOM	10283	N2	G	A	500	156.779	92.824	26.522	1.00	64.21	A16S
ATOM	10284	N1	G	A	500	157.957	94.144	27.981	1.00	64.21	A16S
ATOM	10285	C6	G	A	500	158.751	94.435	29.082	1.00	64.21	A16S
ATOM	10286	O6	G	A	500	159.059	95.605	29.319	1.00	64.21	A16S
ATOM	10287	C5	G	A	500	159.105	93.258	29.803	1.00	64.21	A16S
ATOM	10288	N7	G	A	500	159.872	93.100	30.949	1.00	64.21	A16S
ATOM	10289	C8	G	A	500	159.875	91.814	31.163	1.00	64.21	A16S
ATOM	10290	C2*	G	A	500	160.026	89.044	29.209	1.00	66.54	A16S
ATOM	10291	O2*	G	A	500	159.449	87.965	28.501	1.00	66.54	A16S
ATOM	10292	C3*	G	A	500	161.095	88.596	30.194	1.00	66.54	A16S
ATOM	10293	O3*	G	A	500	161.886	87.544	29.687	1.00	66.54	A16S
ATOM	10294	P	C	A	501	163.309	87.890	29.044	1.00	49.22	A16S
ATOM	10295	O1P	C	A	501	164.041	86.604	28.878	1.00	66.93	A16S
ATOM	10296	O2P	C	A	501	163.924	88.983	29.839	1.00	66.93	A16S
ATOM	10297	O5*	C	A	501	162.926	88.514	27.624	1.00	49.22	A16S
ATOM	10298	C5*	C	A	501	162.287	87.710	26.605	1.00	49.22	A16S
ATOM	10299	C4*	C	A	501	161.929	88.551	25.395	1.00	49.22	A16S
ATOM	10300	O4*	C	A	501	160.837	89.450	25.715	1.00	49.22	A16S
ATOM	10301	C1*	C	A	501	160.977	90.651	24.971	1.00	49.22	A16S
ATOM	10302	N1	C	A	501	161.175	91.760	25.912	1.00	66.93	A16S
ATOM	10303	C6	C	A	501	161.904	91.576	27.053	1.00	66.93	A16S
ATOM	10304	C2	C	A	501	160.624	93.016	25.618	1.00	66.93	A16S
ATOM	10305	O2	C	A	501	159.947	93.153	24.588	1.00	66.93	A16S
ATOM	10306	N3	C	A	501	160.845	94.047	26.469	1.00	66.93	A16S
ATOM	10307	C4	C	A	501	161.573	93.854	27.577	1.00	66.93	A16S
ATOM	10308	N4	C	A	501	161.783	94.894	28.391	1.00	66.93	A16S
ATOM	10309	C5	C	A	501	162.123	92.583	27.903	1.00	66.93	A16S
ATOM	10310	C2*	C	A	501	162.206	90.502	24.080	1.00	49.22	A16S
ATOM	10311	O2*	C	A	501	161.827	90.026	22.804	1.00	49.22	A16S

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ATOM	10312	C3*	C	A 501	163.010	89.462	24.836	1.00	49.22	A16S
ATOM	10313	O3*	C	A 501	163.897	88.825	23.942	1.00	49.22	A16S
ATOM	10314	P	G	A 502	165.256	89.574	23.546	1.00	43.16	A16S
ATOM	10315	O1P	G	A 502	166.139	88.645	22.815	1.00	63.36	A16S
ATOM	10316	O2P	G	A 502	165.745	90.204	24.790	1.00	63.36	A16S
ATOM	10317	O5*	G	A 502	164.786	90.744	22.571	1.00	43.16	A16S
ATOM	10318	C5*	G	A 502	164.281	90.452	21.258	1.00	43.16	A16S
ATOM	10319	C4*	G	A 502	163.947	91.734	20.525	1.00	43.16	A16S
ATOM	10320	O4*	G	A 502	162.799	92.379	21.141	1.00	43.16	A16S
ATOM	10321	C1*	G	A 502	162.961	93.789	21.094	1.00	43.16	A16S
ATOM	10322	N9	G	A 502	163.055	94.290	22.465	1.00	63.36	A16S
ATOM	10323	C4	G	A 502	163.064	95.611	22.848	1.00	63.36	A16S
ATOM	10324	N3	G	A 502	162.946	96.674	22.028	1.00	63.36	A16S
ATOM	10325	C2	G	A 502	163.019	97.812	22.686	1.00	63.36	A16S
ATOM	10326	N2	G	A 502	162.914	98.964	22.031	1.00	63.36	A16S
ATOM	10327	N1	G	A 502	163.204	97.905	24.036	1.00	63.36	A16S
ATOM	10328	C6	G	A 502	163.338	96.828	24.901	1.00	63.36	A16S
ATOM	10329	O6	G	A 502	163.528	97.029	26.105	1.00	63.36	A16S
ATOM	10330	C5	G	A 502	163.242	95.595	24.214	1.00	63.36	A16S
ATOM	10331	N7	G	A 502	163.303	94.290	24.689	1.00	63.36	A16S
ATOM	10332	C8	G	A 502	163.185	93.551	23.620	1.00	63.36	A16S
ATOM	10333	C2*	G	A 502	164.244	94.075	20.310	1.00	43.16	A16S
ATOM	10334	O2*	G	A 502	163.950	94.235	18.938	1.00	43.16	A16S
ATOM	10335	C3*	G	A 502	165.031	92.798	20.530	1.00	43.16	A16S
ATOM	10336	O3*	G	A 502	165.970	92.615	19.493	1.00	43.16	A16S
ATOM	10337	P	C	A 503	167.463	93.164	19.688	1.00	48.38	A16S
ATOM	10338	O1P	C	A 503	168.285	92.685	18.536	1.00	56.57	A16S
ATOM	10339	O2P	C	A 503	167.883	92.827	21.093	1.00	56.57	A16S
ATOM	10340	O5*	C	A 503	167.312	94.748	19.566	1.00	48.38	A16S
ATOM	10341	C5*	C	A 503	166.821	95.342	18.356	1.00	48.38	A16S
ATOM	10342	C4*	C	A 503	166.429	96.777	18.599	1.00	48.38	A16S
ATOM	10343	O4*	C	A 503	165.456	96.827	19.673	1.00	48.38	A16S
ATOM	10344	C1*	C	A 503	165.652	97.992	20.450	1.00	48.38	A16S
ATOM	10345	N1	C	A 503	165.970	97.590	21.836	1.00	56.57	A16S
ATOM	10346	C6	C	A 503	166.051	96.275	22.187	1.00	56.57	A16S
ATOM	10347	C2	C	A 503	166.203	98.581	22.792	1.00	56.57	A16S
ATOM	10348	O2	C	A 503	166.100	99.764	22.460	1.00	56.57	A16S
ATOM	10349	N3	C	A 503	166.529	98.226	24.052	1.00	56.57	A16S
ATOM	10350	C4	C	A 503	166.614	96.942	24.378	1.00	56.57	A16S
ATOM	10351	N4	C	A 503	166.944	96.637	25.629	1.00	56.57	A16S
ATOM	10352	C5	C	A 503	166.365	95.912	23.436	1.00	56.57	A16S
ATOM	10353	C2*	C	A 503	166.784	98.787	19.797	1.00	48.38	A16S
ATOM	10354	O2*	C	A 503	166.226	99.749	18.926	1.00	48.38	A16S
ATOM	10355	C3*	C	A 503	167.546	97.698	19.053	1.00	48.38	A16S
ATOM	10356	O3*	C	A 503	168.277	98.219	17.944	1.00	48.38	A16S
ATOM	10357	P	C	A 504	169.824	98.634	18.125	1.00	59.80	A16S
ATOM	10358	O1P	C	A 504	170.362	98.881	16.758	1.00	52.39	A16S
ATOM	10359	O2P	C	A 504	170.510	97.669	19.024	1.00	52.39	A16S
ATOM	10360	O5*	C	A 504	169.761	100.025	18.883	1.00	59.80	A16S
ATOM	10361	C5*	C	A 504	169.103	101.139	18.283	1.00	59.80	A16S
ATOM	10362	C4*	C	A 504	169.243	102.351	19.157	1.00	59.80	A16S
ATOM	10363	O4*	C	A 504	168.439	102.192	20.347	1.00	59.80	A16S
ATOM	10364	C1*	C	A 504	169.108	102.776	21.446	1.00	59.80	A16S
ATOM	10365	N1	C	A 504	169.327	101.741	22.463	1.00	52.39	A16S
ATOM	10366	C6	C	A 504	169.358	100.418	22.131	1.00	52.39	A16S
ATOM	10367	C2	C	A 504	169.485	102.135	23.782	1.00	52.39	A16S
ATOM	10368	O2	C	A 504	169.496	103.349	24.045	1.00	52.39	A16S
ATOM	10369	N3	C	A 504	169.630	101.194	24.744	1.00	52.39	A16S
ATOM	10370	C4	C	A 504	169.645	99.905	24.415	1.00	52.39	A16S
ATOM	10371	N4	C	A 504	169.793	99.010	25.393	1.00	52.39	A16S
ATOM	10372	C5	C	A 504	169.510	99.476	23.066	1.00	52.39	A16S
ATOM	10373	C2*	C	A 504	170.405	103.397	20.935	1.00	59.80	A16S
ATOM	10374	O2*	C	A 504	170.189	104.764	20.640	1.00	59.80	A16S
ATOM	10375	C3*	C	A 504	170.645	102.587	19.676	1.00	59.80	A16S
ATOM	10376	O3*	C	A 504	171.427	103.285	18.737	1.00	59.80	A16S
ATOM	10377	P	G	A 505	172.937	102.816	18.483	1.00	74.36	A16S
ATOM	10378	O1P	G	A 505	173.711	103.304	19.662	1.00	53.79	A16S
ATOM	10379	O2P	G	A 505	172.921	101.346	18.162	1.00	53.79	A16S
ATOM	10380	O5*	G	A 505	173.372	103.643	17.189	1.00	74.36	A16S
ATOM	10381	C5*	G	A 505	173.998	104.924	17.324	1.00	74.36	A16S
ATOM	10382	C4*	G	A 505	174.244	105.536	15.971	1.00	74.36	A16S
ATOM	10383	O4*	G	A 505	175.083	104.663	15.174	1.00	74.36	A16S
ATOM	10384	C1*	G	A 505	174.784	104.844	13.800	1.00	74.36	A16S
ATOM	10385	N9	G	A 505	174.445	103.552	13.212	1.00	53.79	A16S
ATOM	10386	C4	G	A 505	174.225	103.300	11.876	1.00	53.79	A16S
ATOM	10387	N3	G	A 505	174.309	104.202	10.872	1.00	53.79	A16S
ATOM	10388	C2	G	A 505	174.001	103.668	9.696	1.00	53.79	A16S

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ATOM	10389	N2	G	A	505	174.009	104.431	8.594	1.00	53.79	A16S
ATOM	10390	N1	G	A	505	173.655	102.350	9.519	1.00	53.79	A16S
ATOM	10391	C6	G	A	505	173.567	101.402	10.539	1.00	53.79	A16S
ATOM	10392	O6	G	A	505	173.236	100.236	10.275	1.00	53.79	A16S
ATOM	10393	C5	G	A	505	173.887	101.964	11.807	1.00	53.79	A16S
ATOM	10394	N7	G	A	505	173.919	101.380	13.070	1.00	53.79	A16S
ATOM	10395	C8	G	A	505	174.259	102.356	13.869	1.00	53.79	A16S
ATOM	10396	C2*	G	A	505	173.643	105.857	13.701	1.00	74.36	A16S
ATOM	10397	O2*	G	A	505	174.205	107.124	13.430	1.00	74.36	A16S
ATOM	10398	C3*	G	A	505	173.030	105.780	15.096	1.00	74.36	A16S
ATOM	10399	O3*	G	A	505	172.390	106.996	15.457	1.00	74.36	A16S
ATOM	10400	P	G	A	506	170.792	107.115	15.346	1.00	52.07	A16S
ATOM	10401	O1P	G	A	506	170.405	108.384	16.021	1.00	60.78	A16S
ATOM	10402	O2P	G	A	506	170.182	105.827	15.804	1.00	60.78	A16S
ATOM	10403	O5*	G	A	506	170.539	107.336	13.787	1.00	52.07	A16S
ATOM	10404	C5*	G	A	506	170.943	108.570	13.179	1.00	52.07	A16S
ATOM	10405	C4*	G	A	506	170.803	108.502	11.685	1.00	52.07	A16S
ATOM	10406	O4*	G	A	506	171.676	107.479	11.155	1.00	52.07	A16S
ATOM	10407	C1*	G	A	506	171.059	106.846	10.055	1.00	52.07	A16S
ATOM	10408	N9	G	A	506	170.912	105.428	10.380	1.00	60.78	A16S
ATOM	10409	C4	G	A	506	170.628	104.403	9.501	1.00	60.78	A16S
ATOM	10410	N3	G	A	506	170.406	104.530	8.175	1.00	60.78	A16S
ATOM	10411	C2	G	A	506	170.152	103.367	7.602	1.00	60.78	A16S
ATOM	10412	N2	G	A	506	169.876	103.315	6.291	1.00	60.78	A16S
ATOM	10413	N1	G	A	506	170.141	102.173	8.269	1.00	60.78	A16S
ATOM	10414	C6	G	A	506	170.380	102.013	9.628	1.00	60.78	A16S
ATOM	10415	O6	G	A	506	170.362	100.883	10.128	1.00	60.78	A16S
ATOM	10416	C5	G	A	506	170.629	103.256	10.264	1.00	60.78	A16S
ATOM	10417	N7	G	A	506	170.889	103.550	11.598	1.00	60.78	A16S
ATOM	10418	C8	G	A	506	171.046	104.845	11.621	1.00	60.78	A16S
ATOM	10419	C2*	G	A	506	169.737	107.569	9.795	1.00	52.07	A16S
ATOM	10420	O2*	G	A	506	169.963	108.577	8.832	1.00	52.07	A16S
ATOM	10421	C3*	G	A	506	169.427	108.149	11.170	1.00	52.07	A16S
ATOM	10422	O3*	G	A	506	168.608	109.309	11.112	1.00	52.07	A16S
ATOM	10423	P	C	A	507	167.154	109.286	11.794	1.00	59.14	A16S
ATOM	10424	O1P	C	A	507	166.632	110.678	11.689	1.00	57.20	A16S
ATOM	10425	O2P	C	A	507	167.250	108.627	13.132	1.00	57.20	A16S
ATOM	10426	O5*	C	A	507	166.305	108.393	10.790	1.00	59.14	A16S
ATOM	10427	C5*	C	A	507	165.991	108.915	9.489	1.00	59.14	A16S
ATOM	10428	C4*	C	A	507	165.431	107.845	8.596	1.00	59.14	A16S
ATOM	10429	O4*	C	A	507	166.458	106.884	8.260	1.00	59.14	A16S
ATOM	10430	C1*	C	A	507	165.859	105.622	8.036	1.00	59.14	A16S
ATOM	10431	N1	C	A	507	166.461	104.638	8.953	1.00	57.20	A16S
ATOM	10432	C6	C	A	507	166.972	105.020	10.159	1.00	57.20	A16S
ATOM	10433	C2	C	A	507	166.476	103.289	8.579	1.00	57.20	A16S
ATOM	10434	O2	C	A	507	166.047	102.970	7.455	1.00	57.20	A16S
ATOM	10435	N3	C	A	507	166.957	102.370	9.445	1.00	57.20	A16S
ATOM	10436	C4	C	A	507	167.420	102.753	10.632	1.00	57.20	A16S
ATOM	10437	N4	C	A	507	167.853	101.811	11.470	1.00	57.20	A16S
ATOM	10438	C5	C	A	507	167.456	104.118	11.019	1.00	57.20	A16S
ATOM	10439	C2*	C	A	507	164.347	105.774	8.252	1.00	59.14	A16S
ATOM	10440	O2*	C	A	507	163.711	105.964	6.999	1.00	59.14	A16S
ATOM	10441	C3*	C	A	507	164.277	107.017	9.131	1.00	59.14	A16S
ATOM	10442	O3*	C	A	507	163.049	107.710	8.961	1.00	59.14	A16S
ATOM	10443	P	C	A	508	161.846	107.495	10.015	1.00	57.62	A16S
ATOM	10444	O1P	C	A	508	161.202	106.172	9.777	1.00	62.54	A16S
ATOM	10445	O2P	C	A	508	161.026	108.739	9.963	1.00	62.54	A16S
ATOM	10446	O5*	C	A	508	162.548	107.415	11.438	1.00	57.62	A16S
ATOM	10447	C5*	C	A	508	161.829	107.758	12.629	1.00	57.62	A16S
ATOM	10448	C4*	C	A	508	162.624	107.342	13.827	1.00	57.62	A16S
ATOM	10449	O4*	C	A	508	162.613	105.897	13.894	1.00	57.62	A16S
ATOM	10450	C1*	C	A	508	163.927	105.404	13.820	1.00	57.62	A16S
ATOM	10451	N1	C	A	508	163.914	104.224	12.949	1.00	62.54	A16S
ATOM	10452	C6	C	A	508	163.430	104.305	11.672	1.00	62.54	A16S
ATOM	10453	C2	C	A	508	164.410	103.013	13.440	1.00	62.54	A16S
ATOM	10454	O2	C	A	508	164.849	102.966	14.599	1.00	62.54	A16S
ATOM	10455	N3	C	A	508	164.407	101.925	12.639	1.00	62.54	A16S
ATOM	10456	C4	C	A	508	163.948	102.017	11.392	1.00	62.54	A16S
ATOM	10457	N4	C	A	508	163.992	100.925	10.628	1.00	62.54	A16S
ATOM	10458	C5	C	A	508	163.431	103.237	10.867	1.00	62.54	A16S
ATOM	10459	C2*	C	A	508	164.801	106.525	13.263	1.00	57.62	A16S
ATOM	10460	O2*	C	A	508	166.128	106.381	13.726	1.00	57.62	A16S
ATOM	10461	C3*	C	A	508	164.086	107.778	13.770	1.00	57.62	A16S
ATOM	10462	O3*	C	A	508	164.540	108.158	15.069	1.00	57.62	A16S
ATOM	10463	P	A	A	509	163.952	109.491	15.760	1.00	45.21	A16S
ATOM	10464	O1P	A	A	509	163.346	110.316	14.673	1.00	54.85	A16S
ATOM	10465	O2P	A	A	509	165.012	110.093	16.625	1.00	54.85	A16S

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ATOM	10466	O5*	A	A	509	162.765	108.914	16.666	1.00	45.21	A16S
ATOM	10467	C5*	A	A	509	162.097	109.744	17.632	1.00	45.21	A16S
ATOM	10468	C4*	A	A	509	162.265	109.180	19.026	1.00	45.21	A16S
ATOM	10469	O4*	A	A	509	161.262	108.154	19.297	1.00	45.21	A16S
ATOM	10470	C1*	A	A	509	161.845	107.074	20.021	1.00	45.21	A16S
ATOM	10471	N9	A	A	509	162.057	105.972	19.070	1.00	54.85	A16S
ATOM	10472	C4	A	A	509	162.106	104.618	19.328	1.00	54.85	A16S
ATOM	10473	N3	A	A	509	161.914	103.995	20.502	1.00	54.85	A16S
ATOM	10474	C2	A	A	509	162.068	102.676	20.369	1.00	54.85	A16S
ATOM	10475	N1	A	A	509	162.373	101.964	19.281	1.00	54.85	A16S
ATOM	10476	C6	A	A	509	162.565	102.619	18.118	1.00	54.85	A16S
ATOM	10477	N6	A	A	509	162.887	101.915	17.036	1.00	54.85	A16S
ATOM	10478	C5	A	A	509	162.422	104.016	18.120	1.00	54.85	A16S
ATOM	10479	N7	A	A	509	162.541	104.962	17.114	1.00	54.85	A16S
ATOM	10480	C8	A	A	509	162.304	106.098	17.719	1.00	54.85	A16S
ATOM	10481	C2*	A	A	509	163.213	107.575	20.490	1.00	45.21	A16S
ATOM	10482	O2*	A	A	509	163.093	108.202	21.748	1.00	45.21	A16S
ATOM	10483	C3*	A	A	509	163.585	108.490	19.322	1.00	45.21	A16S
ATOM	10484	O3*	A	A	509	164.755	109.330	19.296	1.00	45.21	A16S
ATOM	10485	P	A	A	510	165.186	110.205	20.559	1.00	48.42	A16S
ATOM	10486	O1P	A	A	510	163.943	110.715	21.192	1.00	60.46	A16S
ATOM	10487	O2P	A	A	510	166.204	111.160	20.064	1.00	60.46	A16S
ATOM	10488	O5*	A	A	510	165.905	109.193	21.546	1.00	48.42	A16S
ATOM	10489	C5*	A	A	510	165.831	109.411	22.964	1.00	48.42	A16S
ATOM	10490	C4*	A	A	510	166.202	108.156	23.696	1.00	48.42	A16S
ATOM	10491	O4*	A	A	510	165.409	107.064	23.161	1.00	48.42	A16S
ATOM	10492	C1*	A	A	510	166.210	105.910	23.046	1.00	48.42	A16S
ATOM	10493	N9	A	A	510	166.259	105.552	21.631	1.00	60.46	A16S
ATOM	10494	C4	A	A	510	165.910	104.339	21.093	1.00	60.46	A16S
ATOM	10495	N3	A	A	510	165.465	103.256	21.752	1.00	60.46	A16S
ATOM	10496	C2	A	A	510	165.229	102.255	20.905	1.00	60.46	A16S
ATOM	10497	N1	A	A	510	165.369	102.217	19.576	1.00	60.46	A16S
ATOM	10498	C6	A	A	510	165.810	103.320	18.939	1.00	60.46	A16S
ATOM	10499	N6	A	A	510	165.933	103.273	17.610	1.00	60.46	A16S
ATOM	10500	C5	A	A	510	166.108	104.457	19.729	1.00	60.46	A16S
ATOM	10501	N7	A	A	510	166.579	105.725	19.414	1.00	60.46	A16S
ATOM	10502	C8	A	A	510	166.649	106.334	20.572	1.00	60.46	A16S
ATOM	10503	C2*	A	A	510	167.580	106.233	23.653	1.00	48.42	A16S
ATOM	10504	O2*	A	A	510	167.570	105.878	25.023	1.00	48.42	A16S
ATOM	10505	C3*	A	A	510	167.645	107.743	23.484	1.00	48.42	A16S
ATOM	10506	O3*	A	A	510	168.473	108.365	24.461	1.00	48.42	A16S
ATOM	10507	P	C	A	511	169.121	109.808	24.159	1.00	58.37	A16S
ATOM	10508	O1P	C	A	511	168.350	110.825	24.918	1.00	59.60	A16S
ATOM	10509	O2P	C	A	511	169.265	109.952	22.691	1.00	59.60	A16S
ATOM	10510	O5*	C	A	511	170.568	109.706	24.808	1.00	58.37	A16S
ATOM	10511	C5*	C	A	511	171.747	109.735	23.994	1.00	58.37	A16S
ATOM	10512	C4*	C	A	511	172.948	109.387	24.827	1.00	58.37	A16S
ATOM	10513	O4*	C	A	511	172.832	108.022	25.313	1.00	58.37	A16S
ATOM	10514	C1*	C	A	511	174.043	107.347	25.055	1.00	58.37	A16S
ATOM	10515	N1	C	A	511	173.790	105.910	25.022	1.00	59.60	A16S
ATOM	10516	C6	C	A	511	173.697	105.228	23.846	1.00	59.60	A16S
ATOM	10517	C2	C	A	511	173.636	105.245	26.243	1.00	59.60	A16S
ATOM	10518	O2	C	A	511	173.733	105.894	27.300	1.00	59.60	A16S
ATOM	10519	N3	C	A	511	173.382	103.921	26.245	1.00	59.60	A16S
ATOM	10520	C4	C	A	511	173.273	103.266	25.089	1.00	59.60	A16S
ATOM	10521	N4	C	A	511	172.988	101.963	25.134	1.00	59.60	A16S
ATOM	10522	C5	C	A	511	173.440	103.919	23.833	1.00	59.60	A16S
ATOM	10523	C2*	C	A	511	174.617	108.017	23.811	1.00	58.37	A16S
ATOM	10524	O2*	C	A	511	175.998	107.731	23.692	1.00	58.37	A16S
ATOM	10525	C3*	C	A	511	174.305	109.477	24.130	1.00	58.37	A16S
ATOM	10526	O3*	C	A	511	175.232	109.920	25.127	1.00	58.37	A16S
ATOM	10527	P	U	A	512	176.440	110.895	24.734	1.00	74.96	A16S
ATOM	10528	O1P	U	A	512	175.920	112.274	24.957	1.00	70.50	A16S
ATOM	10529	O2P	U	A	512	176.979	110.512	23.394	1.00	70.50	A16S
ATOM	10530	O5*	U	A	512	177.536	110.580	25.848	1.00	74.96	A16S
ATOM	10531	C5*	U	A	512	178.369	109.400	25.783	1.00	74.96	A16S
ATOM	10532	C4*	U	A	512	178.503	108.789	27.161	1.00	74.96	A16S
ATOM	10533	O4*	U	A	512	177.321	108.000	27.453	1.00	74.96	A16S
ATOM	10534	C1*	U	A	512	177.680	106.863	28.225	1.00	74.96	A16S
ATOM	10535	N1	U	A	512	177.291	105.649	27.487	1.00	70.50	A16S
ATOM	10536	C6	U	A	512	176.982	105.685	26.144	1.00	70.50	A16S
ATOM	10537	C2	U	A	512	177.251	104.457	28.187	1.00	70.50	A16S
ATOM	10538	O2	U	A	512	177.504	104.379	29.379	1.00	70.50	A16S
ATOM	10539	N3	U	A	512	176.899	103.358	27.443	1.00	70.50	A16S
ATOM	10540	C4	U	A	512	176.584	103.328	26.103	1.00	70.50	A16S
ATOM	10541	O4	U	A	512	176.288	102.258	25.577	1.00	70.50	A16S
ATOM	10542	C5	U	A	512	176.640	104.596	25.450	1.00	70.50	A16S

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ATOM	10543	C2*	U	A	512	179.186	106.935	28.497	1.00	74.96	A16S
ATOM	10544	O2*	U	A	512	179.432	107.497	29.774	1.00	74.96	A16S
ATOM	10545	C3*	U	A	512	179.665	107.825	27.356	1.00	74.96	A16S
ATOM	10546	O3*	U	A	512	180.852	108.529	27.713	1.00	74.96	A16S
ATOM	10547	P	C	A	513	182.290	107.891	27.384	1.00	63.83	A16S
ATOM	10548	O1P	C	A	513	183.313	108.902	27.770	1.00	88.88	A16S
ATOM	10549	O2P	C	A	513	182.256	107.381	25.986	1.00	88.88	A16S
ATOM	10550	O5*	C	A	513	182.394	106.656	28.388	1.00	63.83	A16S
ATOM	10551	C5*	C	A	513	182.656	106.860	29.790	1.00	63.83	A16S
ATOM	10552	C4*	C	A	513	182.901	105.536	30.475	1.00	63.83	A16S
ATOM	10553	O4*	C	A	513	181.665	104.779	30.506	1.00	63.83	A16S
ATOM	10554	C1*	C	A	513	181.954	103.393	30.380	1.00	63.83	A16S
ATOM	10555	N1	C	A	513	181.256	102.852	29.193	1.00	88.88	A16S
ATOM	10556	C6	C	A	513	180.857	103.667	28.166	1.00	88.88	A16S
ATOM	10557	C2	C	A	513	180.995	101.471	29.139	1.00	88.88	A16S
ATOM	10558	O2	C	A	513	181.401	100.744	30.064	1.00	88.88	A16S
ATOM	10559	N3	C	A	513	180.319	100.967	28.084	1.00	88.88	A16S
ATOM	10560	C4	C	A	513	179.913	101.775	27.104	1.00	88.88	A16S
ATOM	10561	N4	C	A	513	179.222	101.236	26.103	1.00	88.88	A16S
ATOM	10562	C5	C	A	513	180.190	103.175	27.114	1.00	88.88	A16S
ATOM	10563	C2*	C	A	513	183.471	103.230	30.289	1.00	63.83	A16S
ATOM	10564	O2*	C	A	513	184.010	102.905	31.555	1.00	63.83	A16S
ATOM	10565	C3*	C	A	513	183.901	104.604	29.800	1.00	63.83	A16S
ATOM	10566	O3*	C	A	513	185.252	104.856	30.145	1.00	63.83	A16S
ATOM	10567	P	C	A	514	186.421	104.288	29.198	1.00	77.15	A16S
ATOM	10568	O1P	C	A	514	187.701	104.753	29.783	1.00	71.74	A16S
ATOM	10569	O2P	C	A	514	186.099	104.624	27.784	1.00	71.74	A16S
ATOM	10570	O5*	C	A	514	186.329	102.706	29.375	1.00	77.15	A16S
ATOM	10571	C5*	C	A	514	186.626	102.103	30.643	1.00	77.15	A16S
ATOM	10572	C4*	C	A	514	186.313	100.626	30.624	1.00	77.15	A16S
ATOM	10573	O4*	C	A	514	184.902	100.429	30.360	1.00	77.15	A16S
ATOM	10574	C1*	C	A	514	184.719	99.202	29.675	1.00	77.15	A16S
ATOM	10575	N1	C	A	514	183.998	99.449	28.418	1.00	71.74	A16S
ATOM	10576	C6	C	A	514	183.982	100.685	27.839	1.00	71.74	A16S
ATOM	10577	C2	C	A	514	183.327	98.383	27.820	1.00	71.74	A16S
ATOM	10578	O2	C	A	514	183.351	97.273	28.372	1.00	71.74	A16S
ATOM	10579	N3	C	A	514	182.669	98.582	26.662	1.00	71.74	A16S
ATOM	10580	C4	C	A	514	182.659	99.788	26.104	1.00	71.74	A16S
ATOM	10581	N4	C	A	514	181.996	99.936	24.963	1.00	71.74	A16S
ATOM	10582	C5	C	A	514	183.329	100.898	26.692	1.00	71.74	A16S
ATOM	10583	C2*	C	A	514	186.091	98.572	29.440	1.00	77.15	A16S
ATOM	10584	O2*	C	A	514	186.314	97.563	30.405	1.00	77.15	A16S
ATOM	10585	C3*	C	A	514	187.018	99.776	29.577	1.00	77.15	A16S
ATOM	10586	O3*	C	A	514	188.319	99.381	29.994	1.00	77.15	A16S
ATOM	10587	P	C	A	515	189.405	98.941	28.891	1.00	72.86	A16S
ATOM	10588	O1P	G	A	515	190.692	98.682	29.593	1.00	82.48	A16S
ATOM	10589	O2P	G	A	515	189.361	99.938	27.781	1.00	82.48	A16S
ATOM	10590	O5*	G	A	515	188.865	97.541	28.348	1.00	72.86	A16S
ATOM	10591	C5*	G	A	515	189.010	96.337	29.126	1.00	72.86	A16S
ATOM	10592	C4*	G	A	515	188.390	95.171	28.397	1.00	72.86	A16S
ATOM	10593	O4*	G	A	515	186.977	95.436	28.207	1.00	72.86	A16S
ATOM	10594	C1*	G	A	515	186.556	94.922	26.953	1.00	72.86	A16S
ATOM	10595	N9	G	A	515	186.144	96.044	26.113	1.00	82.48	A16S
ATOM	10596	C4	G	A	515	185.424	95.968	24.945	1.00	82.48	A16S
ATOM	10597	N3	G	A	515	184.916	94.846	24.401	1.00	82.48	A16S
ATOM	10598	C2	G	A	515	184.322	95.085	23.248	1.00	82.48	A16S
ATOM	10599	N2	G	A	515	183.766	94.078	22.570	1.00	82.48	A16S
ATOM	10600	N1	G	A	515	184.231	96.330	22.672	1.00	82.48	A16S
ATOM	10601	C6	G	A	515	184.750	97.500	23.215	1.00	82.48	A16S
ATOM	10602	O6	G	A	515	184.642	98.572	22.603	1.00	82.48	A16S
ATOM	10603	C5	G	A	515	185.379	97.258	24.459	1.00	82.48	A16S
ATOM	10604	N7	G	A	515	186.014	98.135	25.327	1.00	82.48	A16S
ATOM	10605	C8	G	A	515	186.443	97.374	26.296	1.00	82.48	A16S
ATOM	10606	C2*	G	A	515	187.752	94.200	26.326	1.00	72.86	A16S
ATOM	10607	O2*	G	A	515	187.707	92.814	26.610	1.00	72.86	A16S
ATOM	10608	C3*	G	A	515	188.923	94.901	26.997	1.00	72.86	A16S
ATOM	10609	O3*	G	A	515	190.079	94.074	27.004	1.00	72.86	A16S
ATOM	10610	P	U	A	516	191.212	94.285	25.882	1.00	72.85	A16S
ATOM	10611	O1P	U	A	516	192.300	93.308	26.142	1.00	79.44	A16S
ATOM	10612	O2P	U	A	516	191.530	95.736	25.787	1.00	79.44	A16S
ATOM	10613	O5*	U	A	516	190.508	93.857	24.523	1.00	72.85	A16S
ATOM	10614	C5*	U	A	516	190.069	92.507	24.303	1.00	72.85	A16S
ATOM	10615	C4*	U	A	516	189.360	92.414	22.976	1.00	72.85	A16S
ATOM	10616	O4*	U	A	516	188.217	93.305	22.995	1.00	72.85	A16S
ATOM	10617	C1*	U	A	516	188.026	93.868	21.710	1.00	72.85	A16S
ATOM	10618	N1	U	A	516	187.950	95.336	21.837	1.00	79.44	A16S
ATOM	10619	C6	U	A	516	188.431	95.991	22.949	1.00	79.44	A16S

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ATOM	10620	C2	U	A	516	187.348	96.046	20.809	1.00	79.44	A16S
ATOM	10621	O2	U	A	516	186.952	95.521	19.783	1.00	79.44	A16S
ATOM	10622	N3	U	A	516	187.236	97.400	21.024	1.00	79.44	A16S
ATOM	10623	C4	U	A	516	187.669	98.109	22.123	1.00	79.44	A16S
ATOM	10624	O4	U	A	516	187.425	99.313	22.204	1.00	79.44	A16S
ATOM	10625	C5	U	A	516	188.316	97.316	23.121	1.00	79.44	A16S
ATOM	10626	C2*	U	A	516	189.102	93.299	20.781	1.00	72.85	A16S
ATOM	10627	O2*	U	A	516	188.566	92.178	20.105	1.00	72.85	A16S
ATOM	10628	C3*	U	A	516	190.173	92.855	21.768	1.00	72.85	A16S
ATOM	10629	O3*	U	A	516	190.916	91.760	21.245	1.00	72.85	A16S
ATOM	10630	P	G	A	517	192.474	91.947	20.893	1.00	73.28	A16S
ATOM	10631	O1P	G	A	517	193.025	90.578	20.681	1.00	83.69	A16S
ATOM	10632	O2P	G	A	517	193.078	92.837	21.925	1.00	83.69	A16S
ATOM	10633	O5*	G	A	517	192.496	92.722	19.496	1.00	73.28	A16S
ATOM	10634	C5*	G	A	517	191.986	92.102	18.296	1.00	73.28	A16S
ATOM	10635	C4*	G	A	517	191.620	93.154	17.284	1.00	73.28	A16S
ATOM	10636	O4*	G	A	517	190.943	94.227	17.983	1.00	73.28	A16S
ATOM	10637	C1*	G	A	517	191.612	95.446	17.746	1.00	73.28	A16S
ATOM	10638	N9	G	A	517	191.533	96.249	18.958	1.00	83.69	A16S
ATOM	10639	C4	G	A	517	190.943	97.485	19.069	1.00	83.69	A16S
ATOM	10640	N3	G	A	517	190.353	98.171	18.069	1.00	83.69	A16S
ATOM	10641	C2	G	A	517	189.863	99.325	18.485	1.00	83.69	A16S
ATOM	10642	N2	G	A	517	189.249	100.135	17.613	1.00	83.69	A16S
ATOM	10643	N1	G	A	517	189.940	99.770	19.785	1.00	83.69	A16S
ATOM	10644	C6	G	A	517	190.535	99.077	20.835	1.00	83.69	A16S
ATOM	10645	O6	G	A	517	190.530	99.560	21.980	1.00	83.69	A16S
ATOM	10646	C5	G	A	517	191.078	97.838	20.395	1.00	83.69	A16S
ATOM	10647	N7	G	A	517	191.753	96.849	21.100	1.00	83.69	A16S
ATOM	10648	C8	G	A	517	192.004	95.929	20.208	1.00	83.69	A16S
ATOM	10649	C2*	G	A	517	193.027	95.089	17.300	1.00	73.28	A16S
ATOM	10650	O2*	G	A	517	193.566	96.128	16.500	1.00	73.28	A16S
ATOM	10651	C3*	G	A	517	192.772	93.804	16.522	1.00	73.28	A16S
ATOM	10652	O3*	G	A	517	192.255	94.163	15.244	1.00	73.28	A16S
ATOM	10653	P	C	A	518	193.038	93.758	13.907	1.00	77.64	A16S
ATOM	10654	O1P	C	A	518	194.118	92.810	14.270	1.00	90.93	A16S
ATOM	10655	O2P	C	A	518	193.370	95.017	13.185	1.00	90.93	A16S
ATOM	10656	O5*	C	A	518	191.948	92.947	13.069	1.00	77.64	A16S
ATOM	10657	C5*	C	A	518	190.724	93.576	12.656	1.00	77.64	A16S
ATOM	10658	C4*	C	A	518	190.357	93.151	11.256	1.00	77.64	A16S
ATOM	10659	O4*	C	A	518	189.270	93.998	10.824	1.00	77.64	A16S
ATOM	10660	C1*	C	A	518	189.361	94.218	9.431	1.00	77.64	A16S
ATOM	10661	N1	C	A	518	188.969	95.610	9.131	1.00	90.93	A16S
ATOM	10662	C6	C	A	518	188.958	96.564	10.112	1.00	90.93	A16S
ATOM	10663	C2	C	A	518	188.583	95.943	7.815	1.00	90.93	A16S
ATOM	10664	O2	C	A	518	188.617	95.071	6.926	1.00	90.93	A16S
ATOM	10665	N3	C	A	518	188.185	97.207	7.548	1.00	90.93	A16S
ATOM	10666	C4	C	A	518	188.169	98.122	8.520	1.00	90.93	A16S
ATOM	10667	N4	C	A	518	187.764	99.352	8.208	1.00	90.93	A16S
ATOM	10668	C5	C	A	518	188.567	97.818	9.854	1.00	90.93	A16S
ATOM	10669	C2*	C	A	518	190.727	93.741	8.927	1.00	77.64	A16S
ATOM	10670	O2*	C	A	518	190.587	92.696	7.992	1.00	77.64	A16S
ATOM	10671	C3*	C	A	518	191.453	93.360	10.216	1.00	77.64	A16S
ATOM	10672	O3*	C	A	518	192.353	92.226	10.108	1.00	77.64	A16S
ATOM	10673	P	C	A	519	191.790	90.703	9.918	1.00	57.45	A16S
ATOM	10674	O1P	C	A	519	192.989	89.881	9.595	1.00	68.29	A16S
ATOM	10675	O2P	C	A	519	190.602	90.618	9.034	1.00	68.29	A16S
ATOM	10676	O5*	C	A	519	191.329	90.278	11.387	1.00	57.45	A16S
ATOM	10677	C5*	C	A	519	190.290	89.299	11.602	1.00	57.45	A16S
ATOM	10678	C4*	C	A	519	190.296	88.860	13.045	1.00	57.45	A16S
ATOM	10679	O4*	C	A	519	190.408	90.015	13.901	1.00	57.45	A16S
ATOM	10680	C1*	C	A	519	189.861	89.699	15.167	1.00	57.45	A16S
ATOM	10681	N1	C	A	519	189.144	90.869	15.711	1.00	68.29	A16S
ATOM	10682	C6	C	A	519	188.800	91.923	14.909	1.00	68.29	A16S
ATOM	10683	C2	C	A	519	188.838	90.896	17.080	1.00	68.29	A16S
ATOM	10684	O2	C	A	519	189.134	89.915	17.785	1.00	68.29	A16S
ATOM	10685	N3	C	A	519	188.226	91.988	17.597	1.00	68.29	A16S
ATOM	10686	C4	C	A	519	187.908	93.016	16.806	1.00	68.29	A16S
ATOM	10687	N4	C	A	519	187.309	94.076	17.358	1.00	68.29	A16S
ATOM	10688	C5	C	A	519	188.189	93.006	15.412	1.00	68.29	A16S
ATOM	10689	C2*	C	A	519	189.077	88.388	15.060	1.00	57.45	A16S
ATOM	10690	O2*	C	A	519	189.766	87.407	15.810	1.00	57.45	A16S
ATOM	10691	C3*	C	A	519	189.063	88.125	13.548	1.00	57.45	A16S
ATOM	10692	O3*	C	A	519	189.221	86.733	13.289	1.00	57.45	A16S
ATOM	10693	P	A	A	520	187.930	85.781	13.185	1.00	60.70	A16S
ATOM	10694	O1P	A	A	520	188.383	84.353	13.269	1.00	67.22	A16S
ATOM	10695	O2P	A	A	520	187.160	86.247	11.991	1.00	67.22	A16S
ATOM	10696	O5*	A	A	520	187.102	86.105	14.508	1.00	60.70	A16S

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ATOM	10697	C5*	A	A	520	187.525	85.590	15.777	1.00	60.70	A16S
ATOM	10698	C4*	A	A	520	186.650	86.123	16.881	1.00	60.70	A16S
ATOM	10699	O4*	A	A	520	186.925	87.529	17.126	1.00	60.70	A16S
ATOM	10700	C1*	A	A	520	185.732	88.179	17.541	1.00	60.70	A16S
ATOM	10701	N9	A	A	520	185.472	89.311	16.639	1.00	67.22	A16S
ATOM	10702	C4	A	A	520	185.011	90.554	17.009	1.00	67.22	A16S
ATOM	10703	N3	A	A	520	184.687	90.970	18.246	1.00	67.22	A16S
ATOM	10704	C2	A	A	520	184.320	92.254	18.230	1.00	67.22	A16S
ATOM	10705	N1	A	A	520	184.247	93.104	17.198	1.00	67.22	A16S
ATOM	10706	C6	A	A	520	184.571	92.650	15.966	1.00	67.22	A16S
ATOM	10707	N6	A	A	520	184.501	93.496	14.938	1.00	67.22	A16S
ATOM	10708	C5	A	A	520	184.971	91.305	15.846	1.00	67.22	A16S
ATOM	10709	N7	A	A	520	185.365	90.545	14.755	1.00	67.22	A16S
ATOM	10710	C8	A	A	520	185.649	89.374	15.274	1.00	67.22	A16S
ATOM	10711	C2*	A	A	520	184.618	87.126	17.570	1.00	60.70	A16S
ATOM	10712	O2*	A	A	520	184.472	86.604	18.879	1.00	60.70	A16S
ATOM	10713	C3*	A	A	520	185.160	86.071	16.617	1.00	60.70	A16S
ATOM	10714	O3*	A	A	520	184.611	84.790	16.868	1.00	60.70	A16S
ATOM	10715	P	G	A	521	183.455	84.239	15.904	1.00	65.90	A16S
ATOM	10716	O1P	G	A	521	183.161	82.817	16.239	1.00	56.83	A16S
ATOM	10717	O2P	G	A	521	183.856	84.607	14.510	1.00	56.83	A16S
ATOM	10718	O5*	G	A	521	182.190	85.113	16.312	1.00	65.90	A16S
ATOM	10719	C5*	G	A	521	181.412	85.805	15.316	1.00	65.90	A16S
ATOM	10720	C4*	G	A	521	180.940	87.135	15.855	1.00	65.90	A16S
ATOM	10721	O4*	G	A	521	182.034	88.101	15.860	1.00	65.90	A16S
ATOM	10722	C1*	G	A	521	181.529	89.403	15.590	1.00	65.90	A16S
ATOM	10723	N9	G	A	521	182.062	89.870	14.312	1.00	56.83	A16S
ATOM	10724	C4	G	A	521	181.965	91.147	13.816	1.00	56.83	A16S
ATOM	10725	N3	G	A	521	181.435	92.205	14.460	1.00	56.83	A16S
ATOM	10726	C2	G	A	521	181.413	93.290	13.699	1.00	56.83	A16S
ATOM	10727	N2	G	A	521	180.911	94.449	14.184	1.00	56.83	A16S
ATOM	10728	N1	G	A	521	181.876	93.327	12.407	1.00	56.83	A16S
ATOM	10729	C6	G	A	521	182.422	92.251	11.723	1.00	56.83	A16S
ATOM	10730	O6	G	A	521	182.785	92.394	10.550	1.00	56.83	A16S
ATOM	10731	C5	G	A	521	182.462	91.083	12.532	1.00	56.83	A16S
ATOM	10732	N7	G	A	521	182.922	89.803	12.245	1.00	56.83	A16S
ATOM	10733	C8	G	A	521	182.680	89.122	13.333	1.00	56.83	A16S
ATOM	10734	C2*	G	A	521	180.012	89.269	15.460	1.00	65.90	A16S
ATOM	10735	O2*	G	A	521	179.392	89.504	16.709	1.00	65.90	A16S
ATOM	10736	C3*	G	A	521	179.874	87.820	15.027	1.00	65.90	A16S
ATOM	10737	O3*	G	A	521	178.586	87.297	15.274	1.00	65.90	A16S
ATOM	10738	P	C	A	522	177.456	87.456	14.152	1.00	55.69	A16S
ATOM	10739	O1P	C	A	522	176.233	86.738	14.622	1.00	64.73	A16S
ATOM	10740	O2P	C	A	522	178.035	87.122	12.822	1.00	64.73	A16S
ATOM	10741	O5*	C	A	522	177.204	89.030	14.127	1.00	55.69	A16S
ATOM	10742	C5*	C	A	522	176.786	89.740	15.306	1.00	55.69	A16S
ATOM	10743	C4*	C	A	522	176.291	91.123	14.942	1.00	55.69	A16S
ATOM	10744	O4*	C	A	522	177.395	91.931	14.471	1.00	55.69	A16S
ATOM	10745	C1*	C	A	522	176.915	92.872	13.525	1.00	55.69	A16S
ATOM	10746	N1	C	A	522	177.685	92.755	12.282	1.00	64.73	A16S
ATOM	10747	C6	C	A	522	178.295	91.584	11.926	1.00	64.73	A16S
ATOM	10748	C2	C	A	522	177.774	93.875	11.458	1.00	64.73	A16S
ATOM	10749	O2	C	A	522	177.231	94.937	11.825	1.00	64.73	A16S
ATOM	10750	N3	C	A	522	178.452	93.782	10.294	1.00	64.73	A16S
ATOM	10751	C4	C	A	522	179.040	92.636	9.954	1.00	64.73	A16S
ATOM	10752	N4	C	A	522	179.698	92.594	8.798	1.00	64.73	A16S
ATOM	10753	C5	C	A	522	178.978	91.483	10.783	1.00	64.73	A16S
ATOM	10754	C2*	C	A	522	175.425	92.626	13.303	1.00	55.69	A16S
ATOM	10755	O2*	C	A	522	174.684	93.561	14.053	1.00	55.69	A16S
ATOM	10756	C3*	C	A	522	175.262	91.205	13.821	1.00	55.69	A16S
ATOM	10757	O3*	C	A	522	173.940	90.990	14.288	1.00	55.69	A16S
ATOM	10758	P	A	A	523	172.871	90.285	13.321	1.00	49.01	A16S
ATOM	10759	O1P	A	A	523	171.554	90.433	13.991	1.00	70.71	A16S
ATOM	10760	O2P	A	A	523	173.361	88.919	12.957	1.00	70.71	A16S
ATOM	10761	O5*	A	A	523	172.879	91.215	12.027	1.00	49.01	A16S
ATOM	10762	C5*	A	A	523	172.371	92.559	12.099	1.00	49.01	A16S
ATOM	10763	C4*	A	A	523	172.418	93.217	10.741	1.00	49.01	A16S
ATOM	10764	O4*	A	A	523	173.778	93.546	10.378	1.00	49.01	A16S
ATOM	10765	C1*	A	A	523	173.984	93.278	9.003	1.00	49.01	A16S
ATOM	10766	N9	A	A	523	174.998	92.221	8.909	1.00	70.71	A16S
ATOM	10767	C4	A	A	523	175.957	92.073	7.934	1.00	70.71	A16S
ATOM	10768	N3	A	A	523	176.174	92.870	6.877	1.00	70.71	A16S
ATOM	10769	C2	A	A	523	177.180	92.409	6.145	1.00	70.71	A16S
ATOM	10770	N1	A	A	523	177.934	91.321	6.329	1.00	70.71	A16S
ATOM	10771	C6	A	A	523	177.688	90.537	7.397	1.00	70.71	A16S
ATOM	10772	N6	A	A	523	178.427	89.440	7.567	1.00	70.71	A16S
ATOM	10773	C5	A	A	523	176.655	90.924	8.262	1.00	70.71	A16S

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ATOM	10774	N7	A	A 523	176.162	90.364	9.432	1.00	70.71	A16S
ATOM	10775	C8	A	A 523	175.184	91.166	9.777	1.00	70.71	A16S
ATOM	10776	C2*	A	A 523	172.633	92.883	8.399	1.00	49.01	A16S
ATOM	10777	O2*	A	A 523	172.036	94.024	7.823	1.00	49.01	A16S
ATOM	10778	C3*	A	A 523	171.899	92.344	9.623	1.00	49.01	A16S
ATOM	10779	O3*	A	A 523	170.492	92.459	9.591	1.00	49.01	A16S
ATOM	10780	P	G	A 524	169.627	91.449	8.704	1.00	55.37	A16S
ATOM	10781	O1P	G	A 524	168.335	91.277	9.414	1.00	50.19	A16S
ATOM	10782	O2P	G	A 524	170.429	90.240	8.365	1.00	50.19	A16S
ATOM	10783	O5*	G	A 524	169.404	92.293	7.370	1.00	55.37	A16S
ATOM	10784	C5*	G	A 524	168.576	91.791	6.312	1.00	55.37	A16S
ATOM	10785	C4*	G	A 524	167.956	92.933	5.543	1.00	55.37	A16S
ATOM	10786	O4*	G	A 524	167.013	93.647	6.380	1.00	55.37	A16S
ATOM	10787	C1*	G	A 524	167.064	95.029	6.083	1.00	55.37	A16S
ATOM	10788	N9	G	A 524	167.426	95.741	7.304	1.00	50.19	A16S
ATOM	10789	C4	G	A 524	167.351	97.095	7.519	1.00	50.19	A16S
ATOM	10790	N3	G	A 524	166.963	98.014	6.620	1.00	50.19	A16S
ATOM	10791	C2	G	A 524	166.968	99.229	7.124	1.00	50.19	A16S
ATOM	10792	N2	G	A 524	166.619	100.265	6.349	1.00	50.19	A16S
ATOM	10793	N1	G	A 524	167.314	99.517	8.418	1.00	50.19	A16S
ATOM	10794	C6	G	A 524	167.710	98.580	9.365	1.00	50.19	A16S
ATOM	10795	O6	G	A 524	167.979	98.939	10.519	1.00	50.19	A16S
ATOM	10796	C5	G	A 524	167.728	97.281	8.828	1.00	50.19	A16S
ATOM	10797	N7	G	A 524	168.068	96.074	9.419	1.00	50.19	A16S
ATOM	10798	C8	G	A 524	167.879	95.190	8.477	1.00	50.19	A16S
ATOM	10799	C2*	G	A 524	168.050	95.226	4.931	1.00	55.37	A16S
ATOM	10800	O2*	G	A 524	167.318	95.264	3.722	1.00	55.37	A16S
ATOM	10801	C3*	G	A 524	168.932	93.990	5.066	1.00	55.37	A16S
ATOM	10802	O3*	G	A 524	169.536	93.590	3.846	1.00	55.37	A16S
ATOM	10803	P	C	A 525	171.104	93.838	3.625	1.00	60.08	A16S
ATOM	10804	O1P	C	A 525	171.573	92.878	2.588	1.00	51.32	A16S
ATOM	10805	O2P	C	A 525	171.778	93.878	4.961	1.00	51.32	A16S
ATOM	10806	O5*	C	A 525	171.153	95.287	2.976	1.00	60.08	A16S
ATOM	10807	C5*	C	A 525	170.488	95.556	1.726	1.00	60.08	A16S
ATOM	10808	C4*	C	A 525	170.255	97.041	1.577	1.00	60.08	A16S
ATOM	10809	O4*	C	A 525	169.389	97.484	2.650	1.00	60.08	A16S
ATOM	10810	C1*	C	A 525	169.799	98.762	3.092	1.00	60.08	A16S
ATOM	10811	N1	C	A 525	170.139	98.681	4.519	1.00	51.32	A16S
ATOM	10812	C6	C	A 525	170.365	97.480	5.120	1.00	51.32	A16S
ATOM	10813	C2	C	A 525	170.200	99.860	5.261	1.00	51.32	A16S
ATOM	10814	O2	C	A 525	170.043	100.954	4.674	1.00	51.32	A16S
ATOM	10815	N3	C	A 525	170.435	99.792	6.592	1.00	51.32	A16S
ATOM	10816	C4	C	A 525	170.621	98.612	7.174	1.00	51.32	A16S
ATOM	10817	N4	C	A 525	170.820	98.589	8.495	1.00	51.32	A16S
ATOM	10818	C5	C	A 525	170.604	97.400	6.433	1.00	51.32	A16S
ATOM	10819	C2*	C	A 525	170.959	99.228	2.216	1.00	60.08	A16S
ATOM	10820	O2*	C	A 525	170.437	100.069	1.205	1.00	60.08	A16S
ATOM	10821	C3*	C	A 525	171.506	97.903	1.700	1.00	60.08	A16S
ATOM	10822	O3*	C	A 525	172.182	98.033	0.449	1.00	60.08	A16S
ATOM	10823	P	C	A 526	173.791	98.154	0.417	1.00	54.83	A16S
ATOM	10824	O1P	C	A 526	174.181	98.196	-1.022	1.00	53.16	A16S
ATOM	10825	O2P	C	A 526	174.373	97.110	1.295	1.00	53.16	A16S
ATOM	10826	O5*	C	A 526	174.088	99.571	1.093	1.00	54.83	A16S
ATOM	10827	C5*	C	A 526	173.779	100.802	0.401	1.00	54.83	A16S
ATOM	10828	C4*	C	A 526	173.986	102.001	1.309	1.00	54.83	A16S
ATOM	10829	O4*	C	A 526	173.068	101.949	2.433	1.00	54.83	A16S
ATOM	10830	C1*	C	A 526	173.672	102.548	3.564	1.00	54.83	A16S
ATOM	10831	N1	C	A 526	173.743	101.556	4.635	1.00	53.16	A16S
ATOM	10832	C6	C	A 526	173.878	100.228	4.348	1.00	53.16	A16S
ATOM	10833	C2	C	A 526	173.677	101.991	5.966	1.00	53.16	A16S
ATOM	10834	O2	C	A 526	173.542	103.202	6.201	1.00	53.16	A16S
ATOM	10835	N3	C	A 526	173.757	101.083	6.959	1.00	53.16	A16S
ATOM	10836	C4	C	A 526	173.883	99.790	6.667	1.00	53.16	A16S
ATOM	10837	N4	C	A 526	173.943	98.928	7.675	1.00	53.16	A16S
ATOM	10838	C5	C	A 526	173.950	99.320	5.323	1.00	53.16	A16S
ATOM	10839	C2*	C	A 526	175.067	103.020	3.162	1.00	54.83	A16S
ATOM	10840	O2*	C	A 526	175.021	104.390	2.831	1.00	54.83	A16S
ATOM	10841	C3*	C	A 526	175.356	102.150	1.951	1.00	54.83	A16S
ATOM	10842	O3*	C	A 526	176.299	102.787	1.097	1.00	54.83	A16S
ATOM	10843	P	G	A 527	177.784	102.181	0.976	1.00	61.84	A16S
ATOM	10844	O1P	G	A 527	178.736	103.328	0.937	1.00	55.98	A16S
ATOM	10845	O2P	G	A 527	177.764	101.194	-0.144	1.00	55.98	A16S
ATOM	10846	O5*	G	A 527	177.990	101.380	2.340	1.00	61.84	A16S
ATOM	10847	C5*	G	A 527	179.001	101.759	3.294	1.00	61.84	A16S
ATOM	10848	C4*	G	A 527	178.401	101.810	4.674	1.00	61.84	A16S
ATOM	10849	O4*	G	A 527	177.397	100.774	4.760	1.00	61.84	A16S
ATOM	10850	C1*	G	A 527	177.435	100.179	6.040	1.00	61.84	A16S

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ATOM	10851	N9	G	A	527	177.969	98.830	5.889	1.00	55.98	A16S
ATOM	10852	C4	G	A	527	178.074	97.903	6.889	1.00	55.98	A16S
ATOM	10853	N3	G	A	527	177.681	98.080	8.167	1.00	55.98	A16S
ATOM	10854	C2	G	A	527	177.926	97.022	8.907	1.00	55.98	A16S
ATOM	10855	N2	G	A	527	177.606	97.033	10.211	1.00	55.98	A16S
ATOM	10856	N1	G	A	527	178.505	95.877	8.428	1.00	55.98	A16S
ATOM	10857	C6	G	A	527	178.917	95.672	7.114	1.00	55.98	A16S
ATOM	10858	O6	G	A	527	179.426	94.597	6.791	1.00	55.98	A16S
ATOM	10859	C5	G	A	527	178.668	96.803	6.310	1.00	55.98	A16S
ATOM	10860	N7	G	A	527	178.925	97.028	4.963	1.00	55.98	A16S
ATOM	10861	C8	G	A	527	178.489	98.240	4.755	1.00	55.98	A16S
ATOM	10862	C2*	G	A	527	178.391	101.006	6.893	1.00	61.84	A16S
ATOM	10863	O2*	G	A	527	177.713	102.077	7.503	1.00	61.84	A16S
ATOM	10864	C3*	G	A	527	179.340	101.532	5.841	1.00	61.84	A16S
ATOM	10865	O3*	G	A	527	180.032	102.661	6.341	1.00	61.84	A16S
ATOM	10866	P	C	A	528	181.471	102.455	7.036	1.00	62.59	A16S
ATOM	10867	O1P	C	A	528	181.927	103.810	7.446	1.00	52.46	A16S
ATOM	10868	O2P	C	A	528	182.332	101.619	6.147	1.00	52.46	A16S
ATOM	10869	O5*	C	A	528	181.181	101.594	8.345	1.00	62.59	A16S
ATOM	10870	C5*	C	A	528	180.511	102.181	9.461	1.00	62.59	A16S
ATOM	10871	C4*	C	A	528	180.645	101.310	10.684	1.00	62.59	A16S
ATOM	10872	O4*	C	A	528	179.931	100.062	10.496	1.00	62.59	A16S
ATOM	10873	C1*	C	A	528	180.502	99.074	11.335	1.00	62.59	A16S
ATOM	10874	N1	C	A	528	180.865	97.888	10.548	1.00	52.46	A16S
ATOM	10875	C6	C	A	528	181.343	97.993	9.271	1.00	52.46	A16S
ATOM	10876	C2	C	A	528	180.758	96.630	11.161	1.00	52.46	A16S
ATOM	10877	O2	C	A	528	180.223	96.549	12.292	1.00	52.46	A16S
ATOM	10878	N3	C	A	528	181.222	95.534	10.506	1.00	52.46	A16S
ATOM	10879	C4	C	A	528	181.738	95.658	9.281	1.00	52.46	A16S
ATOM	10880	N4	C	A	528	182.228	94.563	8.699	1.00	52.46	A16S
ATOM	10881	C5	C	A	528	181.786	96.914	8.605	1.00	52.46	A16S
ATOM	10882	C2*	C	A	528	181.742	99.675	11.998	1.00	62.59	A16S
ATOM	10883	O2*	C	A	528	181.448	100.078	13.322	1.00	62.59	A16S
ATOM	10884	C3*	C	A	528	182.038	100.862	11.092	1.00	62.59	A16S
ATOM	10885	O3*	C	A	528	182.768	101.845	11.810	1.00	62.59	A16S
ATOM	10886	P	G	A	529	184.380	101.817	11.772	1.00	57.91	A16S
ATOM	10887	O1P	G	A	529	184.841	102.859	12.742	1.00	63.76	A16S
ATOM	10888	O2P	G	A	529	184.791	101.908	10.336	1.00	63.76	A16S
ATOM	10889	O5*	G	A	529	184.780	100.373	12.345	1.00	57.91	A16S
ATOM	10890	C5*	G	A	529	184.660	100.092	13.757	1.00	57.91	A16S
ATOM	10891	C4*	G	A	529	185.282	98.757	14.128	1.00	57.91	A16S
ATOM	10892	O4*	G	A	529	184.485	97.662	13.618	1.00	57.91	A16S
ATOM	10893	C1*	G	A	529	185.313	96.528	13.409	1.00	57.91	A16S
ATOM	10894	N9	G	A	529	185.274	96.159	11.995	1.00	63.76	A16S
ATOM	10895	C4	G	A	529	185.495	94.904	11.464	1.00	63.76	A16S
ATOM	10896	N3	G	A	529	185.735	93.773	12.163	1.00	63.76	A16S
ATOM	10897	C2	G	A	529	185.931	92.730	11.366	1.00	63.76	A16S
ATOM	10898	N2	G	A	529	186.162	91.508	11.890	1.00	63.76	A16S
ATOM	10899	N1	G	A	529	185.911	92.800	9.998	1.00	63.76	A16S
ATOM	10900	C6	G	A	529	185.671	93.953	9.258	1.00	63.76	A16S
ATOM	10901	O6	G	A	529	185.690	93.908	8.022	1.00	63.76	A16S
ATOM	10902	C5	G	A	529	185.438	95.072	10.096	1.00	63.76	A16S
ATOM	10903	N7	G	A	529	185.151	96.392	9.771	1.00	63.76	A16S
ATOM	10904	C8	G	A	529	185.055	96.997	10.925	1.00	63.76	A16S
ATOM	10905	C2*	G	A	529	186.731	96.918	13.823	1.00	57.91	A16S
ATOM	10906	O2*	G	A	529	186.942	96.507	15.159	1.00	57.91	A16S
ATOM	10907	C3*	G	A	529	186.695	98.435	13.673	1.00	57.91	A16S
ATOM	10908	O3*	G	A	529	187.695	99.060	14.468	1.00	57.91	A16S
ATOM	10909	P	G	A	530	188.800	99.989	13.761	1.00	87.33	A16S
ATOM	10910	O1P	G	A	530	189.473	100.740	14.838	1.00	72.43	A16S
ATOM	10911	O2P	G	A	530	188.178	100.725	12.624	1.00	72.43	A16S
ATOM	10912	O5*	G	A	530	189.834	98.962	13.127	1.00	87.33	A16S
ATOM	10913	C5*	G	A	530	190.515	97.991	13.939	1.00	87.33	A16S
ATOM	10914	C4*	G	A	530	191.863	97.671	13.335	1.00	87.33	A16S
ATOM	10915	O4*	G	A	530	191.673	97.188	11.990	1.00	87.33	A16S
ATOM	10916	C1*	G	A	530	192.814	97.502	11.224	1.00	87.33	A16S
ATOM	10917	N9	G	A	530	192.413	97.812	9.849	1.00	72.43	A16S
ATOM	10918	C4	G	A	530	191.858	98.969	9.366	1.00	72.43	A16S
ATOM	10919	N3	G	A	530	191.594	100.078	10.078	1.00	72.43	A16S
ATOM	10920	C2	G	A	530	191.057	101.020	9.323	1.00	72.43	A16S
ATOM	10921	N2	G	A	530	190.743	102.205	9.854	1.00	72.43	A16S
ATOM	10922	N1	G	A	530	190.792	100.878	7.984	1.00	72.43	A16S
ATOM	10923	C6	G	A	530	191.055	99.740	7.235	1.00	72.43	A16S
ATOM	10924	O6	G	A	530	190.776	99.713	6.031	1.00	72.43	A16S
ATOM	10925	C5	G	A	530	191.635	98.733	8.018	1.00	72.43	A16S
ATOM	10926	N7	G	A	530	192.051	97.462	7.662	1.00	72.43	A16S
ATOM	10927	C8	G	A	530	192.508	96.953	8.772	1.00	72.43	A16S

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ATOM	10928	C2*	G	A	530	193.711	98.465	12.012	1.00	87.33	A16S
ATOM	10929	O2*	G	A	530	194.873	97.761	12.404	1.00	87.33	A16S
ATOM	10930	C3*	G	A	530	192.826	98.848	13.204	1.00	87.33	A16S
ATOM	10931	O3*	G	A	530	193.575	98.911	14.430	1.00	87.33	A16S
ATOM	10932	P	U	A	531	194.456	100.209	14.792	1.00	72.14	A16S
ATOM	10933	O1P	U	A	531	194.041	101.342	13.910	1.00	92.13	A16S
ATOM	10934	O2P	U	A	531	195.877	99.785	14.829	1.00	92.13	A16S
ATOM	10935	O5*	U	A	531	194.025	100.551	16.284	1.00	72.14	A16S
ATOM	10936	C5*	U	A	531	192.747	101.133	16.544	1.00	72.14	A16S
ATOM	10937	C4*	U	A	531	192.732	101.791	17.896	1.00	72.14	A16S
ATOM	10938	O4*	U	A	531	192.708	100.775	18.936	1.00	72.14	A16S
ATOM	10939	C1*	U	A	531	193.728	101.039	19.873	1.00	72.14	A16S
ATOM	10940	N1	U	A	531	194.244	99.760	20.393	1.00	92.13	A16S
ATOM	10941	C6	U	A	531	194.843	98.831	19.564	1.00	92.13	A16S
ATOM	10942	C2	U	A	531	194.120	99.519	21.763	1.00	92.13	A16S
ATOM	10943	O2	U	A	531	193.574	100.298	22.542	1.00	92.13	A16S
ATOM	10944	N3	U	A	531	194.656	98.328	22.190	1.00	92.13	A16S
ATOM	10945	C4	U	A	531	195.280	97.370	21.416	1.00	92.13	A16S
ATOM	10946	O4	U	A	531	195.734	96.360	21.959	1.00	92.13	A16S
ATOM	10947	C5	U	A	531	195.350	97.679	20.017	1.00	92.13	A16S
ATOM	10948	C2*	U	A	531	194.769	101.895	19.145	1.00	72.14	A16S
ATOM	10949	O2*	U	A	531	195.488	102.684	20.076	1.00	72.14	A16S
ATOM	10950	C3*	U	A	531	193.900	102.725	18.195	1.00	72.14	A16S
ATOM	10951	O3*	U	A	531	193.428	103.859	18.895	1.00	72.14	A16S
ATOM	10952	P	A	A	532	193.067	105.213	18.108	1.00	103.97	A16S
ATOM	10953	O1P	A	A	532	192.330	104.855	16.868	1.00	173.94	A16S
ATOM	10954	O2P	A	A	532	194.288	106.052	18.021	1.00	173.94	A16S
ATOM	10955	O5*	A	A	532	192.051	105.901	19.127	1.00	103.97	A16S
ATOM	10956	C5*	A	A	532	192.063	105.496	20.523	1.00	103.97	A16S
ATOM	10957	C4*	A	A	532	190.707	105.675	21.180	1.00	103.97	A16S
ATOM	10958	O4*	A	A	532	190.508	107.056	21.548	1.00	103.97	A16S
ATOM	10959	C1*	A	A	532	189.123	107.319	21.624	1.00	103.97	A16S
ATOM	10960	N9	A	A	532	188.848	108.596	20.956	1.00	173.94	A16S
ATOM	10961	C4	A	A	532	187.618	109.091	20.579	1.00	173.94	A16S
ATOM	10962	N3	A	A	532	186.415	108.503	20.731	1.00	173.94	A16S
ATOM	10963	C2	A	A	532	185.445	109.279	20.245	1.00	173.94	A16S
ATOM	10964	N1	A	A	532	185.533	110.484	19.664	1.00	173.94	A16S
ATOM	10965	C6	A	A	532	186.755	111.047	19.524	1.00	173.94	A16S
ATOM	10966	N6	A	A	532	186.845	112.245	18.939	1.00	173.94	A16S
ATOM	10967	C5	A	A	532	187.869	110.327	20.005	1.00	173.94	A16S
ATOM	10968	N7	A	A	532	189.229	110.610	20.021	1.00	173.94	A16S
ATOM	10969	C8	A	A	532	189.763	109.558	20.589	1.00	173.94	A16S
ATOM	10970	C2*	A	A	532	188.356	106.071	21.153	1.00	103.97	A16S
ATOM	10971	O2*	A	A	532	187.825	105.406	22.281	1.00	103.97	A16S
ATOM	10972	C3*	A	A	532	189.441	105.257	20.439	1.00	103.97	A16S
ATOM	10973	O3*	A	A	532	189.263	103.835	20.576	1.00	103.97	A16S
ATOM	10974	P	A	A	533	187.868	103.123	20.171	1.00	79.29	A16S
ATOM	10975	O1P	A	A	533	187.024	103.129	21.393	1.00	62.52	A16S
ATOM	10976	O2P	A	A	533	188.184	101.831	19.524	1.00	62.52	A16S
ATOM	10977	O5*	A	A	533	187.200	104.062	19.069	1.00	79.29	A16S
ATOM	10978	C5*	A	A	533	186.024	104.832	19.391	1.00	79.29	A16S
ATOM	10979	C4*	A	A	533	184.813	104.310	18.648	1.00	79.29	A16S
ATOM	10980	O4*	A	A	533	185.074	102.990	18.118	1.00	79.29	A16S
ATOM	10981	C1*	A	A	533	183.871	102.250	18.091	1.00	79.29	A16S
ATOM	10982	N9	A	A	533	184.163	100.845	18.404	1.00	62.52	A16S
ATOM	10983	C4	A	A	533	183.740	99.759	17.662	1.00	62.52	A16S
ATOM	10984	N3	A	A	533	182.929	99.768	16.591	1.00	62.52	A16S
ATOM	10985	C2	A	A	533	182.781	98.538	16.100	1.00	62.52	A16S
ATOM	10986	N1	A	A	533	183.311	97.388	16.516	1.00	62.52	A16S
ATOM	10987	C6	A	A	533	184.117	97.404	17.591	1.00	62.52	A16S
ATOM	10988	N6	A	A	533	184.645	96.249	17.993	1.00	62.52	A16S
ATOM	10989	C5	A	A	533	184.353	98.652	18.220	1.00	62.52	A16S
ATOM	10990	N7	A	A	533	185.104	99.019	19.330	1.00	62.52	A16S
ATOM	10991	C8	A	A	533	184.946	100.325	19.406	1.00	62.52	A16S
ATOM	10992	C2*	A	A	533	182.774	103.020	18.842	1.00	79.29	A16S
ATOM	10993	O2*	A	A	533	181.792	103.418	17.906	1.00	79.29	A16S
ATOM	10994	C3*	A	A	533	183.563	104.158	19.510	1.00	79.29	A16S
ATOM	10995	O3*	A	A	533	182.944	105.454	19.787	1.00	79.29	A16S
ATOM	10996	P	U	A	534	181.735	106.052	18.874	1.00	84.93	A16S
ATOM	10997	O1P	U	A	534	181.991	105.805	17.427	1.00	84.69	A16S
ATOM	10998	O2P	U	A	534	181.523	107.446	19.334	1.00	84.69	A16S
ATOM	10999	O5*	U	A	534	180.447	105.230	19.321	1.00	84.93	A16S
ATOM	11000	C5*	U	A	534	180.262	104.854	20.697	1.00	84.93	A16S
ATOM	11001	C4*	U	A	534	178.793	104.775	21.031	1.00	84.93	A16S
ATOM	11002	O4*	U	A	534	178.212	106.100	21.038	1.00	84.93	A16S
ATOM	11003	C1*	U	A	534	176.857	106.017	20.638	1.00	84.93	A16S
ATOM	11004	N1	U	A	534	176.638	106.911	19.494	1.00	84.69	A16S

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ATOM	11005	C6	U	A	534	177.636	107.186	18.585	1.00	84.69	A16S
ATOM	11006	C2	U	A	534	175.384	107.462	19.361	1.00	84.69	A16S
ATOM	11007	O2	U	A	534	174.478	107.244	20.152	1.00	84.69	A16S
ATOM	11008	N3	U	A	534	175.224	108.277	18.268	1.00	84.69	A16S
ATOM	11009	C4	U	A	534	176.173	108.589	17.316	1.00	84.69	A16S
ATOM	11010	O4	U	A	534	175.863	109.307	16.365	1.00	84.69	A16S
ATOM	11011	C5	U	A	534	177.451	107.985	17.529	1.00	84.69	A16S
ATOM	11012	C2*	U	A	534	176.539	104.554	20.321	1.00	84.93	A16S
ATOM	11013	O2*	U	A	534	175.915	103.950	21.436	1.00	84.93	A16S
ATOM	11014	C3*	U	A	534	177.924	103.976	20.074	1.00	84.93	A16S
ATOM	11015	O3*	U	A	534	177.946	102.603	20.407	1.00	84.93	A16S
ATOM	11016	P	A	A	535	178.742	101.576	19.472	1.00	54.44	A16S
ATOM	11017	O1P	A	A	535	178.638	100.246	20.143	1.00	59.37	A16S
ATOM	11018	O2P	A	A	535	180.066	102.147	19.171	1.00	59.37	A16S
ATOM	11019	O5*	A	A	535	177.918	101.530	18.111	1.00	54.44	A16S
ATOM	11020	C5*	A	A	535	176.610	100.935	18.078	1.00	54.44	A16S
ATOM	11021	C4*	A	A	535	176.454	100.036	16.874	1.00	54.44	A16S
ATOM	11022	O4*	A	A	535	176.280	100.808	15.658	1.00	54.44	A16S
ATOM	11023	C1*	A	A	535	177.122	100.293	14.661	1.00	54.44	A16S
ATOM	11024	N9	A	A	535	177.454	101.370	13.736	1.00	59.37	A16S
ATOM	11025	C4	A	A	535	177.252	101.316	12.377	1.00	59.37	A16S
ATOM	11026	N3	A	A	535	176.799	100.272	11.661	1.00	59.37	A16S
ATOM	11027	C2	A	A	535	176.699	100.591	10.378	1.00	59.37	A16S
ATOM	11028	N1	A	A	535	176.961	101.747	9.775	1.00	59.37	A16S
ATOM	11029	C6	A	A	535	177.404	102.780	10.515	1.00	59.37	A16S
ATOM	11030	N6	A	A	535	177.630	103.941	9.901	1.00	59.37	A16S
ATOM	11031	C5	A	A	535	177.584	102.565	11.895	1.00	59.37	A16S
ATOM	11032	N7	A	A	535	178.040	103.380	12.924	1.00	59.37	A16S
ATOM	11033	C8	A	A	535	177.953	102.619	13.993	1.00	59.37	A16S
ATOM	11034	C2*	A	A	535	178.279	99.616	15.386	1.00	54.44	A16S
ATOM	11035	O2*	A	A	535	178.820	98.606	14.558	1.00	54.44	A16S
ATOM	11036	C3*	A	A	535	177.563	99.030	16.601	1.00	54.44	A16S
ATOM	11037	O3*	A	A	535	176.934	97.818	16.235	1.00	54.44	A16S
ATOM	11038	P	C	A	536	176.456	96.808	17.381	1.00	60.17	A16S
ATOM	11039	O1P	C	A	536	175.222	96.135	16.880	1.00	66.51	A16S
ATOM	11040	O2P	C	A	536	176.421	97.551	18.683	1.00	66.51	A16S
ATOM	11041	O5*	C	A	536	177.626	95.727	17.452	1.00	60.17	A16S
ATOM	11042	C5*	C	A	536	177.681	94.622	16.523	1.00	60.17	A16S
ATOM	11043	C4*	C	A	536	178.845	93.718	16.859	1.00	60.17	A16S
ATOM	11044	O4*	C	A	536	180.071	94.472	16.714	1.00	60.17	A16S
ATOM	11045	C1*	C	A	536	180.976	94.119	17.740	1.00	60.17	A16S
ATOM	11046	N1	C	A	536	181.319	95.351	18.477	1.00	66.51	A16S
ATOM	11047	C6	C	A	536	180.783	96.549	18.102	1.00	66.51	A16S
ATOM	11048	C2	C	A	536	182.198	95.285	19.562	1.00	66.51	A16S
ATOM	11049	O2	C	A	536	182.692	94.197	19.873	1.00	66.51	A16S
ATOM	11050	N3	C	A	536	182.495	96.413	20.241	1.00	66.51	A16S
ATOM	11051	C4	C	A	536	181.965	97.575	19.864	1.00	66.51	A16S
ATOM	11052	N4	C	A	536	182.292	98.667	20.554	1.00	66.51	A16S
ATOM	11053	C5	C	A	536	181.077	97.673	18.759	1.00	66.51	A16S
ATOM	11054	C2*	C	A	536	180.336	93.000	18.573	1.00	60.17	A16S
ATOM	11055	O2*	C	A	536	180.810	91.736	18.148	1.00	60.17	A16S
ATOM	11056	C3*	C	A	536	178.856	93.195	18.283	1.00	60.17	A16S
ATOM	11057	O3*	C	A	536	178.151	91.968	18.351	1.00	60.17	A16S
ATOM	11058	P	G	A	537	176.870	91.844	19.299	1.00	57.67	A16S
ATOM	11059	O1P	G	A	537	176.115	90.646	18.872	1.00	76.24	A16S
ATOM	11060	O2P	G	A	537	176.194	93.158	19.317	1.00	76.24	A16S
ATOM	11061	O5*	G	A	537	177.488	91.578	20.740	1.00	57.67	A16S
ATOM	11062	C5*	G	A	537	178.058	90.298	21.061	1.00	57.67	A16S
ATOM	11063	C4*	G	A	537	178.856	90.370	22.347	1.00	57.67	A16S
ATOM	11064	O4*	G	A	537	180.074	91.129	22.137	1.00	57.67	A16S
ATOM	11065	C1*	G	A	537	180.414	91.815	23.329	1.00	57.67	A16S
ATOM	11066	N9	G	A	537	180.458	93.241	23.042	1.00	76.24	A16S
ATOM	11067	C4	G	A	537	180.961	94.209	23.865	1.00	76.24	A16S
ATOM	11068	N3	G	A	537	181.511	94.003	25.078	1.00	76.24	A16S
ATOM	11069	C2	G	A	537	181.917	95.130	25.628	1.00	76.24	A16S
ATOM	11070	N2	G	A	537	182.504	95.103	26.833	1.00	76.24	A16S
ATOM	11071	N1	G	A	537	181.783	96.365	25.036	1.00	76.24	A16S
ATOM	11072	C6	G	A	537	181.215	96.595	23.785	1.00	76.24	A16S
ATOM	11073	O6	G	A	537	181.139	97.745	23.340	1.00	76.24	A16S
ATOM	11074	C5	G	A	537	180.785	95.396	23.185	1.00	76.24	A16S
ATOM	11075	N7	G	A	537	180.184	95.176	21.956	1.00	76.24	A16S
ATOM	11076	C8	G	A	537	180.007	93.884	21.914	1.00	76.24	A16S
ATOM	11077	C2*	G	A	537	179.368	91.476	24.395	1.00	57.67	A16S
ATOM	11078	O2*	G	A	537	179.851	90.447	25.235	1.00	57.67	A16S
ATOM	11079	C3*	G	A	537	178.183	91.033	23.544	1.00	57.67	A16S
ATOM	11080	O3*	G	A	537	177.342	90.136	24.260	1.00	57.67	A16S
ATOM	11081	P	G	A	538	176.092	90.714	25.077	1.00	68.54	A16S

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ATOM	11082	O1P	G	A	538	175.240	89.552	25.460	1.00	77.78	A16S
ATOM	11083	O2P	G	A	538	175.508	91.831	24.288	1.00	77.78	A16S
ATOM	11084	O5*	G	A	538	176.740	91.306	26.403	1.00	68.54	A16S
ATOM	11085	C5*	G	A	538	177.151	90.424	27.457	1.00	68.54	A16S
ATOM	11086	C4*	G	A	538	177.728	91.208	28.605	1.00	68.54	A16S
ATOM	11087	O4*	G	A	538	178.862	91.971	28.128	1.00	68.54	A16S
ATOM	11088	C1*	G	A	538	178.921	93.208	28.806	1.00	68.54	A16S
ATOM	11089	N9	G	A	538	178.775	94.263	27.817	1.00	77.78	A16S
ATOM	11090	C4	G	A	538	179.210	95.551	27.937	1.00	77.78	A16S
ATOM	11091	N3	G	A	538	179.856	96.069	28.998	1.00	77.78	A16S
ATOM	11092	C2	G	A	538	180.146	97.343	28.820	1.00	77.78	A16S
ATOM	11093	N2	G	A	538	180.798	98.014	29.773	1.00	77.78	A16S
ATOM	11094	N1	G	A	538	179.820	98.053	27.692	1.00	77.78	A16S
ATOM	11095	C6	G	A	538	179.147	97.536	26.590	1.00	77.78	A16S
ATOM	11096	O6	G	A	538	178.889	98.264	25.621	1.00	77.78	A16S
ATOM	11097	C5	G	A	538	178.841	96.171	26.766	1.00	77.78	A16S
ATOM	11098	N7	G	A	538	178.190	95.285	25.925	1.00	77.78	A16S
ATOM	11099	C8	G	A	538	178.173	94.166	26.590	1.00	77.78	A16S
ATOM	11100	C2*	G	A	538	177.799	93.234	29.840	1.00	68.54	A16S
ATOM	11101	O2*	G	A	538	178.336	92.799	31.072	1.00	68.54	A16S
ATOM	11102	C3*	G	A	538	176.811	92.237	29.246	1.00	68.54	A16S
ATOM	11103	O3*	G	A	538	175.984	91.636	30.241	1.00	68.54	A16S
ATOM	11104	P	A	A	539	174.689	92.423	30.774	1.00	74.09	A16S
ATOM	11105	O1P	A	A	539	173.953	91.561	31.734	1.00	79.51	A16S
ATOM	11106	O2P	A	A	539	173.978	92.961	29.580	1.00	79.51	A16S
ATOM	11107	O5*	A	A	539	175.302	93.651	31.583	1.00	74.09	A16S
ATOM	11108	C5*	A	A	539	176.086	93.439	32.776	1.00	74.09	A16S
ATOM	11109	C4*	A	A	539	176.668	94.749	33.256	1.00	74.09	A16S
ATOM	11110	O4*	A	A	539	177.600	95.267	32.272	1.00	74.09	A16S
ATOM	11111	C1*	A	A	539	177.516	96.683	32.232	1.00	74.09	A16S
ATOM	11112	N9	A	A	539	177.098	97.081	30.889	1.00	79.51	A16S
ATOM	11113	C4	A	A	539	177.174	98.349	30.365	1.00	79.51	A16S
ATOM	11114	N3	A	A	539	177.664	99.445	30.962	1.00	79.51	A16S
ATOM	11115	C2	A	A	539	177.569	100.498	30.153	1.00	79.51	A16S
ATOM	11116	N1	A	A	539	177.076	100.572	28.911	1.00	79.51	A16S
ATOM	11117	C6	A	A	539	176.587	99.452	28.345	1.00	79.51	A16S
ATOM	11118	N6	A	A	539	176.088	99.530	27.115	1.00	79.51	A16S
ATOM	11119	C5	A	A	539	176.633	98.267	29.097	1.00	79.51	A16S
ATOM	11120	N7	A	A	539	176.234	96.968	28.817	1.00	79.51	A16S
ATOM	11121	C8	A	A	539	176.535	96.304	29.906	1.00	79.51	A16S
ATOM	11122	C2*	A	A	539	176.494	97.122	33.284	1.00	74.09	A16S
ATOM	11123	O2*	A	A	539	177.134	97.490	34.487	1.00	74.09	A16S
ATOM	11124	C3*	A	A	539	175.657	95.865	33.443	1.00	74.09	A16S
ATOM	11125	O3*	A	A	539	175.052	95.811	34.714	1.00	74.09	A16S
ATOM	11126	P	G	A	540	173.570	96.378	34.898	1.00	67.32	A16S
ATOM	11127	O1P	G	A	540	173.148	96.009	36.276	1.00	74.09	A16S
ATOM	11128	O2P	G	A	540	172.754	95.928	33.737	1.00	74.09	A16S
ATOM	11129	O5*	G	A	540	173.760	97.960	34.806	1.00	67.32	A16S
ATOM	11130	C5*	G	A	540	174.362	98.700	35.890	1.00	67.32	A16S
ATOM	11131	C4*	G	A	540	174.352	100.190	35.596	1.00	67.32	A16S
ATOM	11132	O4*	G	A	540	175.249	100.485	34.491	1.00	67.32	A16S
ATOM	11133	C1*	G	A	540	174.722	101.550	33.713	1.00	67.32	A16S
ATOM	11134	N9	G	A	540	174.428	101.033	32.380	1.00	74.09	A16S
ATOM	11135	C4	G	A	540	174.378	101.758	31.221	1.00	74.09	A16S
ATOM	11136	N3	G	A	540	174.636	103.075	31.101	1.00	74.09	A16S
ATOM	11137	C2	G	A	540	174.481	103.495	29.856	1.00	74.09	A16S
ATOM	11138	N2	G	A	540	174.705	104.780	29.553	1.00	74.09	A16S
ATOM	11139	N1	G	A	540	174.096	102.688	28.814	1.00	74.09	A16S
ATOM	11140	C6	G	A	540	173.822	101.327	28.917	1.00	74.09	A16S
ATOM	11141	O6	G	A	540	173.470	100.688	27.916	1.00	74.09	A16S
ATOM	11142	C5	G	A	540	173.995	100.862	30.245	1.00	74.09	A16S
ATOM	11143	N7	G	A	540	173.835	99.591	30.777	1.00	74.09	A16S
ATOM	11144	C8	G	A	540	174.108	99.738	32.042	1.00	74.09	A16S
ATOM	11145	C2*	G	A	540	173.446	102.041	34.402	1.00	67.32	A16S
ATOM	11146	O2*	G	A	540	173.726	103.170	35.210	1.00	67.32	A16S
ATOM	11147	C3*	G	A	540	173.021	100.799	35.180	1.00	67.32	A16S
ATOM	11148	O3*	G	A	540	172.196	101.111	36.286	1.00	67.32	A16S
ATOM	11149	P	G	A	541	170.607	101.164	36.089	1.00	63.66	A16S
ATOM	11150	O1P	G	A	541	170.029	101.605	37.384	1.00	68.29	A16S
ATOM	11151	O2P	G	A	541	170.172	99.879	35.500	1.00	68.29	A16S
ATOM	11152	O5*	G	A	541	170.399	102.316	35.006	1.00	63.66	A16S
ATOM	11153	C5*	G	A	541	170.636	103.696	35.346	1.00	63.66	A16S
ATOM	11154	C4*	G	A	541	170.576	104.577	34.112	1.00	63.66	A16S
ATOM	11155	O4*	G	A	541	171.632	104.198	33.186	1.00	63.66	A16S
ATOM	11156	C1*	G	A	541	171.187	104.372	31.847	1.00	63.66	A16S
ATOM	11157	N9	G	A	541	171.056	103.053	31.239	1.00	68.29	A16S
ATOM	11158	C4	G	A	541	170.809	102.793	29.915	1.00	68.29	A16S

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ATOM	11159	N3	G	A	541	170.699	103.714	28.936	1.00	68.29	A16S
ATOM	11160	C2	G	A	541	170.435	103.158	27.771	1.00	68.29	A16S
ATOM	11161	N2	G	A	541	170.306	103.930	26.688	1.00	68.29	A16S
ATOM	11162	N1	G	A	541	170.282	101.805	27.586	1.00	68.29	A16S
ATOM	11163	C6	G	A	541	170.388	100.842	28.586	1.00	68.29	A16S
ATOM	11164	O6	G	A	541	170.221	99.651	28.322	1.00	68.29	A16S
ATOM	11165	C5	G	A	541	170.681	101.421	29.829	1.00	68.29	A16S
ATOM	11166	N7	G	A	541	170.876	100.827	31.067	1.00	68.29	A16S
ATOM	11167	C8	G	A	541	171.102	101.830	31.871	1.00	68.29	A16S
ATOM	11168	C2*	G	A	541	169.804	105.010	31.915	1.00	63.66	A16S
ATOM	11169	O2*	G	A	541	169.901	106.417	31.891	1.00	63.66	A16S
ATOM	11170	C3*	G	A	541	169.317	104.505	33.261	1.00	63.66	A16S
ATOM	11171	O3*	G	A	541	168.240	105.278	33.729	1.00	63.66	A16S
ATOM	11172	P	G	A	542	166.747	104.813	33.370	1.00	59.09	A16S
ATOM	11173	O1P	G	A	542	165.815	105.717	34.093	1.00	58.48	A16S
ATOM	11174	O2P	G	A	542	166.648	103.328	33.568	1.00	58.48	A16S
ATOM	11175	O5*	G	A	542	166.606	105.136	31.817	1.00	59.09	A16S
ATOM	11176	C5*	G	A	542	166.785	106.472	31.331	1.00	59.09	A16S
ATOM	11177	C4*	G	A	542	166.677	106.495	29.829	1.00	59.09	A16S
ATOM	11178	O4*	G	A	542	167.685	105.614	29.264	1.00	59.09	A16S
ATOM	11179	C1*	G	A	542	167.183	105.009	28.085	1.00	59.09	A16S
ATOM	11180	N9	G	A	542	167.163	103.561	28.268	1.00	58.48	A16S
ATOM	11181	C4	G	A	542	166.958	102.624	27.280	1.00	58.48	A16S
ATOM	11182	N3	G	A	542	166.771	102.883	25.969	1.00	58.48	A16S
ATOM	11183	C2	G	A	542	166.578	101.781	25.266	1.00	58.48	A16S
ATOM	11184	N2	G	A	542	166.378	101.868	23.952	1.00	58.48	A16S
ATOM	11185	N1	G	A	542	166.566	100.521	25.801	1.00	58.48	A16S
ATOM	11186	C6	G	A	542	166.747	100.224	27.147	1.00	58.48	A16S
ATOM	11187	O6	G	A	542	166.698	99.042	27.528	1.00	58.48	A16S
ATOM	11188	C5	G	A	542	166.965	101.408	27.921	1.00	58.48	A16S
ATOM	11189	N7	G	A	542	167.193	101.573	29.281	1.00	58.48	A16S
ATOM	11190	C8	G	A	542	167.309	102.863	29.438	1.00	58.48	A16S
ATOM	11191	C2*	G	A	542	165.774	105.553	27.850	1.00	59.09	A16S
ATOM	11192	O2*	G	A	542	165.830	106.640	26.950	1.00	59.09	A16S
ATOM	11193	C3*	G	A	542	165.371	105.980	29.252	1.00	59.09	A16S
ATOM	11194	O3*	G	A	542	164.371	106.976	29.213	1.00	59.09	A16S
ATOM	11195	P	C	A	543	162.840	106.539	29.027	1.00	48.71	A16S
ATOM	11196	O1P	C	A	543	161.998	107.764	29.117	1.00	61.56	A16S
ATOM	11197	O2P	C	A	543	162.599	105.409	29.959	1.00	61.56	A16S
ATOM	11198	O5*	C	A	543	162.769	105.998	27.529	1.00	48.71	A16S
ATOM	11199	C5*	C	A	543	162.953	106.901	26.422	1.00	48.71	A16S
ATOM	11200	C4*	C	A	543	162.653	106.213	25.110	1.00	48.71	A16S
ATOM	11201	O4*	C	A	543	163.674	105.226	24.799	1.00	48.71	A16S
ATOM	11202	C1*	C	A	543	163.080	104.113	24.143	1.00	48.71	A16S
ATOM	11203	N1	C	A	543	163.234	102.915	25.006	1.00	61.56	A16S
ATOM	11204	C6	C	A	543	163.506	103.037	26.344	1.00	61.56	A16S
ATOM	11205	C2	C	A	543	163.087	101.641	24.435	1.00	61.56	A16S
ATOM	11206	O2	C	A	543	162.837	101.549	23.224	1.00	61.56	A16S
ATOM	11207	N3	C	A	543	163.217	100.543	25.219	1.00	61.56	A16S
ATOM	11208	C4	C	A	543	163.485	100.679	26.519	1.00	61.56	A16S
ATOM	11209	N4	C	A	543	163.614	99.568	27.251	1.00	61.56	A16S
ATOM	11210	C5	C	A	543	163.637	101.956	27.127	1.00	61.56	A16S
ATOM	11211	C2*	C	A	543	161.609	104.460	23.918	1.00	48.71	A16S
ATOM	11212	O2*	C	A	543	161.438	105.119	22.681	1.00	48.71	A16S
ATOM	11213	C3*	C	A	543	161.356	105.432	25.054	1.00	48.71	A16S
ATOM	11214	O3*	C	A	543	160.234	106.234	24.790	1.00	48.71	A16S
ATOM	11215	P	G	A	544	158.800	105.724	25.275	1.00	52.27	A16S
ATOM	11216	O1P	G	A	544	157.806	106.732	24.834	1.00	61.71	A16S
ATOM	11217	O2P	G	A	544	158.920	105.380	26.725	1.00	61.71	A16S
ATOM	11218	O5*	G	A	544	158.580	104.377	24.447	1.00	52.27	A16S
ATOM	11219	C5*	G	A	544	158.587	104.401	23.008	1.00	52.27	A16S
ATOM	11220	C4*	G	A	544	158.359	103.018	22.434	1.00	52.27	A16S
ATOM	11221	O4*	G	A	544	159.482	102.153	22.728	1.00	52.27	A16S
ATOM	11222	C1*	G	A	544	159.044	100.806	22.758	1.00	52.27	A16S
ATOM	11223	N9	G	A	544	159.459	100.192	24.015	1.00	61.71	A16S
ATOM	11224	C4	G	A	544	159.636	98.847	24.244	1.00	61.71	A16S
ATOM	11225	N3	G	A	544	159.472	97.859	23.341	1.00	61.71	A16S
ATOM	11226	C2	G	A	544	159.722	96.670	23.860	1.00	61.71	A16S
ATOM	11227	N2	G	A	544	159.631	95.575	23.092	1.00	61.71	A16S
ATOM	11228	N1	G	A	544	160.085	96.468	25.166	1.00	61.71	A16S
ATOM	11229	C6	G	A	544	160.252	97.472	26.113	1.00	61.71	A16S
ATOM	11230	O6	G	A	544	160.566	97.185	27.268	1.00	61.71	A16S
ATOM	11231	C5	G	A	544	160.010	98.748	25.566	1.00	61.71	A16S
ATOM	11232	N7	G	A	544	160.081	100.001	26.155	1.00	61.71	A16S
ATOM	11233	C8	G	A	544	159.744	100.825	25.201	1.00	61.71	A16S
ATOM	11234	C2*	G	A	544	157.530	100.797	22.544	1.00	52.27	A16S
ATOM	11235	O2*	G	A	544	157.273	100.501	21.184	1.00	52.27	A16S

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ATOM	11236	C3*	G	A	544	157.145	102.230	22.901	1.00	52.27	A16S
ATOM	11237	O3*	G	A	544	155.965	102.616	22.200	1.00	52.27	A16S
ATOM	11238	P	C	A	545	154.535	102.467	22.912	1.00	67.27	A16S
ATOM	11239	O1P	C	A	545	153.534	102.947	21.912	1.00	71.72	A16S
ATOM	11240	O2P	C	A	545	154.607	103.102	24.255	1.00	71.72	A16S
ATOM	11241	O5*	C	A	545	154.362	100.898	23.154	1.00	67.27	A16S
ATOM	11242	C5*	C	A	545	153.627	100.095	22.209	1.00	67.27	A16S
ATOM	11243	C4*	C	A	545	153.784	98.613	22.495	1.00	67.27	A16S
ATOM	11244	O4*	C	A	545	155.188	98.306	22.702	1.00	67.27	A16S
ATOM	11245	C1*	C	A	545	155.306	97.178	23.544	1.00	67.27	A16S
ATOM	11246	N1	C	A	545	156.030	97.564	24.761	1.00	71.72	A16S
ATOM	11247	C6	C	A	545	156.113	98.871	25.140	1.00	71.72	A16S
ATOM	11248	C2	C	A	545	156.605	96.559	25.552	1.00	71.72	A16S
ATOM	11249	O2	C	A	545	156.565	95.386	25.164	1.00	71.72	A16S
ATOM	11250	N3	C	A	545	157.191	96.890	26.713	1.00	71.72	A16S
ATOM	11251	C4	C	A	545	157.236	98.166	27.092	1.00	71.72	A16S
ATOM	11252	N4	C	A	545	157.805	98.448	28.271	1.00	71.72	A16S
ATOM	11253	C5	C	A	545	156.698	99.214	26.286	1.00	71.72	A16S
ATOM	11254	C2*	C	A	545	153.893	96.715	23.884	1.00	67.27	A16S
ATOM	11255	O2*	C	A	545	153.535	95.745	22.930	1.00	67.27	A16S
ATOM	11256	C3*	C	A	545	153.090	97.996	23.703	1.00	67.27	A16S
ATOM	11257	O3*	C	A	545	151.712	97.696	23.461	1.00	67.27	A16S
ATOM	11258	P	G	A	546	150.688	97.570	24.707	1.00	49.52	A16S
ATOM	11259	O1P	G	A	546	149.356	97.158	24.182	1.00	65.59	A16S
ATOM	11260	O2P	G	A	546	150.798	98.800	25.535	1.00	65.59	A16S
ATOM	11261	O5*	G	A	546	151.263	96.348	25.555	1.00	49.52	A16S
ATOM	11262	C5*	G	A	546	151.295	95.024	24.997	1.00	49.52	A16S
ATOM	11263	C4*	G	A	546	151.942	94.048	25.957	1.00	49.52	A16S
ATOM	11264	O4*	G	A	546	153.319	94.427	26.222	1.00	49.52	A16S
ATOM	11265	C1*	G	A	546	153.676	94.045	27.542	1.00	49.52	A16S
ATOM	11266	N9	G	A	546	154.076	95.244	28.279	1.00	65.59	A16S
ATOM	11267	C4	G	A	546	154.856	95.309	29.419	1.00	65.59	A16S
ATOM	11268	N3	G	A	546	155.433	94.267	30.053	1.00	65.59	A16S
ATOM	11269	C2	G	A	546	156.120	94.657	31.125	1.00	65.59	A16S
ATOM	11270	N2	G	A	546	156.783	93.755	31.871	1.00	65.59	A16S
ATOM	11271	N1	G	A	546	156.216	95.959	31.542	1.00	65.59	A16S
ATOM	11272	C6	G	A	546	155.629	97.045	30.907	1.00	65.59	A16S
ATOM	11273	O6	G	A	546	155.781	98.184	31.368	1.00	65.59	A16S
ATOM	11274	C5	G	A	546	154.903	96.646	29.753	1.00	65.59	A16S
ATOM	11275	N7	G	A	546	154.191	97.407	28.839	1.00	65.59	A16S
ATOM	11276	C8	G	A	546	153.725	96.538	27.984	1.00	65.59	A16S
ATOM	11277	C2*	G	A	546	152.460	93.336	28.154	1.00	49.52	A16S
ATOM	11278	O2*	G	A	546	152.592	91.940	27.960	1.00	49.52	A16S
ATOM	11279	C3*	G	A	546	151.309	93.905	27.330	1.00	49.52	A16S
ATOM	11280	O3*	G	A	546	150.185	93.024	27.278	1.00	49.52	A16S
ATOM	11281	P	A	A	547	149.208	92.879	28.558	1.00	61.08	A16S
ATOM	11282	O1P	A	A	547	147.841	92.520	28.048	1.00	62.78	A16S
ATOM	11283	O2P	A	A	547	149.374	94.089	29.413	1.00	62.78	A16S
ATOM	11284	O5*	A	A	547	149.814	91.631	29.356	1.00	61.08	A16S
ATOM	11285	C5*	A	A	547	149.188	90.329	29.300	1.00	61.08	A16S
ATOM	11286	C4*	A	A	547	149.958	89.415	28.376	1.00	61.08	A16S
ATOM	11287	O4*	A	A	547	151.310	89.227	28.866	1.00	61.08	A16S
ATOM	11288	C1*	A	A	547	151.585	87.845	28.987	1.00	61.08	A16S
ATOM	11289	N9	A	A	547	152.453	87.657	30.146	1.00	62.78	A16S
ATOM	11290	C4	A	A	547	153.805	87.457	30.096	1.00	62.78	A16S
ATOM	11291	N3	A	A	547	154.568	87.356	29.001	1.00	62.78	A16S
ATOM	11292	C2	A	A	547	155.845	87.181	29.335	1.00	62.78	A16S
ATOM	11293	N1	A	A	547	156.402	87.113	30.548	1.00	62.78	A16S
ATOM	11294	C6	A	A	547	155.602	87.233	31.629	1.00	62.78	A16S
ATOM	11295	N6	A	A	547	156.158	87.201	32.843	1.00	62.78	A16S
ATOM	11296	C5	A	A	547	154.227	87.400	31.409	1.00	62.78	A16S
ATOM	11297	N7	A	A	547	153.153	87.531	32.276	1.00	62.78	A16S
ATOM	11298	C8	A	A	547	152.125	87.673	31.479	1.00	62.78	A16S
ATOM	11299	C2*	A	A	547	150.233	87.148	29.091	1.00	61.08	A16S
ATOM	11300	O2*	A	A	547	150.334	85.806	28.657	1.00	61.08	A16S
ATOM	11301	C3*	A	A	547	149.371	88.020	28.186	1.00	61.08	A16S
ATOM	11302	O3*	A	A	547	149.563	87.626	26.836	1.00	61.08	A16S
ATOM	11303	P	G	A	548	148.712	88.335	25.671	1.00	47.89	A16S
ATOM	11304	O1P	G	A	548	147.332	88.707	26.158	1.00	55.56	A16S
ATOM	11305	O2P	G	A	548	148.859	87.494	24.451	1.00	55.56	A16S
ATOM	11306	O5*	G	A	548	149.482	89.700	25.433	1.00	47.89	A16S
ATOM	11307	C5*	G	A	548	150.475	89.805	24.429	1.00	47.89	A16S
ATOM	11308	C4*	G	A	548	151.784	90.063	25.077	1.00	47.89	A16S
ATOM	11309	O4*	G	A	548	152.246	88.841	25.699	1.00	47.89	A16S
ATOM	11310	C1*	G	A	548	153.665	88.799	25.647	1.00	47.89	A16S
ATOM	11311	N9	G	A	548	154.074	87.571	24.963	1.00	55.56	A16S
ATOM	11312	C4	G	A	548	155.355	87.064	24.898	1.00	55.56	A16S

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ATOM	11313	N3	G	A	548	156.459	87.629	25.429	1.00	55.56	A16S
ATOM	11314	C2	G	A	548	157.538	86.901	25.210	1.00	55.56	A16S
ATOM	11315	N2	G	A	548	158.729	87.338	25.647	1.00	55.56	A16S
ATOM	11316	N1	G	A	548	157.531	85.702	24.542	1.00	55.56	A16S
ATOM	11317	C6	G	A	548	156.404	85.105	23.994	1.00	55.56	A16S
ATOM	11318	O6	G	A	548	156.503	84.022	23.428	1.00	55.56	A16S
ATOM	11319	C5	G	A	548	155.247	85.885	24.197	1.00	55.56	A16S
ATOM	11320	N7	G	A	548	153.935	85.664	23.804	1.00	55.56	A16S
ATOM	11321	C8	G	A	548	153.276	86.687	24.278	1.00	55.56	A16S
ATOM	11322	C2*	G	A	548	154.144	90.077	24.942	1.00	47.89	A16S
ATOM	11323	O2*	G	A	548	154.487	91.073	25.892	1.00	47.89	A16S
ATOM	11324	C3*	G	A	548	152.907	90.463	24.145	1.00	47.89	A16S
ATOM	11325	O3*	G	A	548	152.846	91.848	23.858	1.00	47.89	A16S
ATOM	11326	P	C	A	549	153.018	92.342	22.340	1.00	46.85	A16S
ATOM	11327	O1P	C	A	549	152.573	93.759	22.287	1.00	47.52	A16S
ATOM	11328	O2P	C	A	549	152.380	91.339	21.418	1.00	47.52	A16S
ATOM	11329	O5*	C	A	549	154.598	92.277	22.129	1.00	46.85	A16S
ATOM	11330	C5*	C	A	549	155.485	93.121	22.879	1.00	46.85	A16S
ATOM	11331	C4*	C	A	549	156.887	92.563	22.841	1.00	46.85	A16S
ATOM	11332	O4*	C	A	549	156.860	91.223	23.377	1.00	46.85	A16S
ATOM	11333	C1*	C	A	549	157.865	90.442	22.758	1.00	46.85	A16S
ATOM	11334	N1	C	A	549	157.254	89.243	22.172	1.00	47.52	A16S
ATOM	11335	C6	C	A	549	155.897	89.090	22.121	1.00	47.52	A16S
ATOM	11336	C2	C	A	549	158.094	88.247	21.673	1.00	47.52	A16S
ATOM	11337	O2	C	A	549	159.316	88.421	21.716	1.00	47.52	A16S
ATOM	11338	N3	C	A	549	157.558	87.127	21.156	1.00	47.52	A16S
ATOM	11339	C4	C	A	549	156.234	86.983	21.116	1.00	47.52	A16S
ATOM	11340	N4	C	A	549	155.748	85.862	20.592	1.00	47.52	A16S
ATOM	11341	C5	C	A	549	155.349	87.985	21.609	1.00	47.52	A16S
ATOM	11342	C2*	C	A	549	158.575	91.310	21.728	1.00	46.85	A16S
ATOM	11343	O2*	C	A	549	159.754	91.812	22.316	1.00	46.85	A16S
ATOM	11344	C3*	C	A	549	157.542	92.397	21.477	1.00	46.85	A16S
ATOM	11345	O3*	C	A	549	158.193	93.584	21.072	1.00	46.85	A16S
ATOM	11346	P	G	A	550	158.424	93.875	19.509	1.00	60.14	A16S
ATOM	11347	O1P	G	A	550	159.206	95.139	19.565	1.00	43.27	A16S
ATOM	11348	O2P	G	A	550	157.126	93.834	18.766	1.00	43.27	A16S
ATOM	11349	O5*	G	A	550	159.312	92.654	18.969	1.00	60.14	A16S
ATOM	11350	C5*	G	A	550	160.741	92.795	18.777	1.00	60.14	A16S
ATOM	11351	C4*	G	A	550	161.390	91.475	18.390	1.00	60.14	A16S
ATOM	11352	O4*	G	A	550	160.832	90.392	19.184	1.00	60.14	A16S
ATOM	11353	C1*	G	A	550	161.021	89.161	18.501	1.00	60.14	A16S
ATOM	11354	N9	G	A	550	159.753	88.454	18.357	1.00	43.27	A16S
ATOM	11355	C4	G	A	550	159.619	87.146	17.960	1.00	43.27	A16S
ATOM	11356	N3	G	A	550	160.629	86.308	17.651	1.00	43.27	A16S
ATOM	11357	C2	G	A	550	160.187	85.117	17.291	1.00	43.27	A16S
ATOM	11358	N2	G	A	550	161.048	84.171	16.951	1.00	43.27	A16S
ATOM	11359	N1	G	A	550	158.866	84.770	17.235	1.00	43.27	A16S
ATOM	11360	C6	G	A	550	157.809	85.615	17.542	1.00	43.27	A16S
ATOM	11361	O6	G	A	550	156.645	85.204	17.441	1.00	43.27	A16S
ATOM	11362	C5	G	A	550	158.266	86.903	17.940	1.00	43.27	A16S
ATOM	11363	N7	G	A	550	157.559	88.032	18.323	1.00	43.27	A16S
ATOM	11364	C8	G	A	550	158.481	88.927	18.563	1.00	43.27	A16S
ATOM	11365	C2*	G	A	550	161.614	89.474	17.135	1.00	60.14	A16S
ATOM	11366	O2*	G	A	550	163.011	89.256	17.204	1.00	60.14	A16S
ATOM	11367	C3*	G	A	550	161.255	90.946	16.968	1.00	60.14	A16S
ATOM	11368	O3*	G	A	550	162.166	91.524	16.048	1.00	60.14	A16S
ATOM	11369	P	U	A	551	161.881	91.383	14.467	1.00	44.81	A16S
ATOM	11370	O1P	U	A	551	162.828	92.297	13.754	1.00	41.55	A16S
ATOM	11371	O2P	U	A	551	160.418	91.544	14.275	1.00	41.55	A16S
ATOM	11372	O5*	U	A	551	162.241	89.874	14.102	1.00	44.81	A16S
ATOM	11373	C5*	U	A	551	163.592	89.402	14.188	1.00	44.81	A16S
ATOM	11374	C4*	U	A	551	163.661	87.949	13.794	1.00	44.81	A16S
ATOM	11375	O4*	U	A	551	162.863	87.144	14.700	1.00	44.81	A16S
ATOM	11376	C1*	U	A	551	162.286	86.060	14.000	1.00	44.81	A16S
ATOM	11377	N1	U	A	551	160.826	86.148	14.136	1.00	41.55	A16S
ATOM	11378	C6	U	A	551	160.224	87.293	14.579	1.00	41.55	A16S
ATOM	11379	C2	U	A	551	160.075	85.038	13.801	1.00	41.55	A16S
ATOM	11380	O2	U	A	551	160.567	84.005	13.394	1.00	41.55	A16S
ATOM	11381	N3	U	A	551	158.725	85.186	13.954	1.00	41.55	A16S
ATOM	11382	C4	U	A	551	158.067	86.303	14.393	1.00	41.55	A16S
ATOM	11383	O4	U	A	551	156.850	86.280	14.497	1.00	41.55	A16S
ATOM	11384	C5	U	A	551	158.906	87.404	14.715	1.00	41.55	A16S
ATOM	11385	C2*	U	A	551	162.769	86.140	12.553	1.00	44.81	A16S
ATOM	11386	O2*	U	A	551	163.901	85.308	12.454	1.00	44.81	A16S
ATOM	11387	C3*	U	A	551	163.119	87.617	12.421	1.00	44.81	A16S
ATOM	11388	O3*	U	A	551	164.137	87.845	11.471	1.00	44.81	A16S
ATOM	11389	P	U	A	552	163.751	88.204	9.956	1.00	43.39	A16S

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ATOM	11390	O1P	U	A	552	165.038	88.632	9.314	1.00	48.62	A16S
ATOM	11391	O2P	U	A	552	162.576	89.127	9.946	1.00	48.62	A16S
ATOM	11392	O5*	U	A	552	163.271	86.808	9.353	1.00	43.39	A16S
ATOM	11393	C5*	U	A	552	164.181	85.694	9.275	1.00	43.39	A16S
ATOM	11394	C4*	U	A	552	163.431	84.429	8.956	1.00	43.39	A16S
ATOM	11395	O4*	U	A	552	162.568	84.056	10.061	1.00	43.39	A16S
ATOM	11396	C1*	U	A	552	161.373	83.482	9.562	1.00	43.39	A16S
ATOM	11397	N1	U	A	552	160.224	84.270	10.036	1.00	48.62	A16S
ATOM	11398	C6	U	A	552	160.357	85.554	10.496	1.00	48.62	A16S
ATOM	11399	C2	U	A	552	158.986	83.658	10.001	1.00	48.62	A16S
ATOM	11400	O2	U	A	552	158.825	82.524	9.585	1.00	48.62	A16S
ATOM	11401	N3	U	A	552	157.940	84.416	10.464	1.00	48.62	A16S
ATOM	11402	C4	U	A	552	158.003	85.696	10.946	1.00	48.62	A16S
ATOM	11403	O4	U	A	552	156.970	86.246	11.343	1.00	48.62	A16S
ATOM	11404	C5	U	A	552	159.319	86.268	10.942	1.00	48.62	A16S
ATOM	11405	C2*	U	A	552	161.472	83.453	8.039	1.00	43.39	A16S
ATOM	11406	O2*	U	A	552	161.924	82.184	7.617	1.00	43.39	A16S
ATOM	11407	C3*	U	A	552	162.487	84.554	7.786	1.00	43.39	A16S
ATOM	11408	O3*	U	A	552	163.154	84.416	6.563	1.00	43.39	A16S
ATOM	11409	P	A	A	553	162.601	85.214	5.298	1.00	41.57	A16S
ATOM	11410	O1P	A	A	553	163.589	85.000	4.198	1.00	46.74	A16S
ATOM	11411	O2P	A	A	553	162.275	86.602	5.745	1.00	46.74	A16S
ATOM	11412	O5*	A	A	553	161.250	84.447	4.966	1.00	41.57	A16S
ATOM	11413	C5*	A	A	553	161.296	83.056	4.675	1.00	41.57	A16S
ATOM	11414	C4*	A	A	553	159.920	82.531	4.423	1.00	41.57	A16S
ATOM	11415	O4*	A	A	553	159.193	82.410	5.665	1.00	41.57	A16S
ATOM	11416	C1*	A	A	553	157.836	82.712	5.441	1.00	41.57	A16S
ATOM	11417	N9	A	A	553	157.496	83.855	6.287	1.00	46.74	A16S
ATOM	11418	C4	A	A	553	156.281	84.116	6.885	1.00	46.74	A16S
ATOM	11419	N3	A	A	553	155.161	83.375	6.824	1.00	46.74	A16S
ATOM	11420	C2	A	A	553	154.183	83.955	7.498	1.00	46.74	A16S
ATOM	11421	N1	A	A	553	154.193	85.104	8.180	1.00	46.74	A16S
ATOM	11422	C6	A	A	553	155.335	85.820	8.230	1.00	46.74	A16S
ATOM	11423	N6	A	A	553	155.347	86.969	8.913	1.00	46.74	A16S
ATOM	11424	C5	A	A	553	156.443	85.315	7.555	1.00	46.74	A16S
ATOM	11425	N7	A	A	553	157.733	85.797	7.399	1.00	46.74	A16S
ATOM	11426	C8	A	A	553	158.318	84.895	6.643	1.00	46.74	A16S
ATOM	11427	C2*	A	A	553	157.660	82.988	3.942	1.00	41.57	A16S
ATOM	11428	O2*	A	A	553	157.307	81.780	3.310	1.00	41.57	A16S
ATOM	11429	C3*	A	A	553	159.065	83.400	3.530	1.00	41.57	A16S
ATOM	11430	O3*	A	A	553	159.353	83.116	2.163	1.00	41.57	A16S
ATOM	11431	P	C	A	554	159.164	84.267	1.053	1.00	41.81	A16S
ATOM	11432	O1P	C	A	554	159.580	83.731	-0.291	1.00	42.04	A16S
ATOM	11433	O2P	C	A	554	159.775	85.538	1.567	1.00	42.04	A16S
ATOM	11434	O5*	C	A	554	157.584	84.432	1.006	1.00	41.81	A16S
ATOM	11435	C5*	C	A	554	156.774	83.398	0.441	1.00	41.81	A16S
ATOM	11436	C4*	C	A	554	155.315	83.705	0.646	1.00	41.81	A16S
ATOM	11437	O4*	C	A	554	155.014	83.666	2.060	1.00	41.81	A16S
ATOM	11438	C1*	C	A	554	153.968	84.573	2.334	1.00	41.81	A16S
ATOM	11439	N1	C	A	554	154.405	85.496	3.390	1.00	42.04	A16S
ATOM	11440	C6	C	A	554	155.651	86.050	3.370	1.00	42.04	A16S
ATOM	11441	C2	C	A	554	153.510	85.816	4.412	1.00	42.04	A16S
ATOM	11442	O2	C	A	554	152.394	85.258	4.435	1.00	42.04	A16S
ATOM	11443	N3	C	A	554	153.879	86.715	5.351	1.00	42.04	A16S
ATOM	11444	C4	C	A	554	155.086	87.270	5.301	1.00	42.04	A16S
ATOM	11445	N4	C	A	554	155.399	88.168	6.227	1.00	42.04	A16S
ATOM	11446	C5	C	A	554	156.025	86.934	4.297	1.00	42.04	A16S
ATOM	11447	C2*	C	A	554	153.586	85.279	1.029	1.00	41.81	A16S
ATOM	11448	O2*	C	A	554	152.493	84.614	0.440	1.00	41.81	A16S
ATOM	11449	C3*	C	A	554	154.824	85.069	0.181	1.00	41.81	A16S
ATOM	11450	O3*	C	A	554	154.469	85.061	-1.197	1.00	41.81	A16S
ATOM	11451	P	C	A	555	154.269	86.459	-1.972	1.00	45.98	A16S
ATOM	11452	O1P	C	A	555	154.126	86.163	-3.429	1.00	53.30	A16S
ATOM	11453	O2P	C	A	555	155.296	87.431	-1.520	1.00	53.30	A16S
ATOM	11454	O5*	C	A	555	152.890	87.020	-1.409	1.00	45.98	A16S
ATOM	11455	C5*	C	A	555	151.638	86.537	-1.917	1.00	45.98	A16S
ATOM	11456	C4*	C	A	555	150.511	87.416	-1.442	1.00	45.98	A16S
ATOM	11457	O4*	C	A	555	150.355	87.272	-0.011	1.00	45.98	A16S
ATOM	11458	C1*	C	A	555	149.974	88.509	0.554	1.00	45.98	A16S
ATOM	11459	N1	C	A	555	151.009	88.925	1.514	1.00	53.30	A16S
ATOM	11460	C6	C	A	555	152.270	88.405	1.458	1.00	53.30	A16S
ATOM	11461	C2	C	A	555	150.682	89.871	2.488	1.00	53.30	A16S
ATOM	11462	O2	C	A	555	149.531	90.330	2.514	1.00	53.30	A16S
ATOM	11463	N3	C	A	555	151.622	90.266	3.374	1.00	53.30	A16S
ATOM	11464	C4	C	A	555	152.845	89.748	3.314	1.00	53.30	A16S
ATOM	11465	N4	C	A	555	153.739	90.154	4.210	1.00	53.30	A16S
ATOM	11466	C5	C	A	555	153.209	88.783	2.331	1.00	53.30	A16S

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ATOM	11467	C2*	C	A	555	149.795	89.500	-0.594	1.00	45.98	A16S
ATOM	11468	O2*	C	A	555	148.440	89.468	-1.002	1.00	45.98	A16S
ATOM	11469	C3*	C	A	555	150.703	88.903	-1.653	1.00	45.98	A16S
ATOM	11470	O3*	C	A	555	150.303	89.288	-2.947	1.00	45.98	A16S
ATOM	11471	P	C	A	556	150.987	90.566	-3.630	1.00	42.57	A16S
ATOM	11472	O1P	C	A	556	150.622	90.522	-5.084	1.00	36.84	A16S
ATOM	11473	O2P	C	A	556	152.422	90.589	-3.230	1.00	36.84	A16S
ATOM	11474	O5*	C	A	556	150.261	91.807	-2.943	1.00	42.57	A16S
ATOM	11475	C5*	C	A	556	148.894	92.107	-3.247	1.00	42.57	A16S
ATOM	11476	C4*	C	A	556	148.399	93.222	-2.374	1.00	42.57	A16S
ATOM	11477	O4*	C	A	556	148.371	92.782	-0.992	1.00	42.57	A16S
ATOM	11478	C1*	C	A	556	148.665	93.869	-0.129	1.00	42.57	A16S
ATOM	11479	N1	C	A	556	149.895	93.571	0.626	1.00	36.84	A16S
ATOM	11480	C6	C	A	556	150.764	92.606	0.211	1.00	36.84	A16S
ATOM	11481	C2	C	A	556	150.175	94.319	1.774	1.00	36.84	A16S
ATOM	11482	O2	C	A	556	149.345	95.151	2.161	1.00	36.84	A16S
ATOM	11483	N3	C	A	556	151.336	94.110	2.438	1.00	36.84	A16S
ATOM	11484	C4	C	A	556	152.182	93.182	2.009	1.00	36.84	A16S
ATOM	11485	N4	C	A	556	153.308	93.014	2.678	1.00	36.84	A16S
ATOM	11486	C5	C	A	556	151.908	92.381	0.868	1.00	36.84	A16S
ATOM	11487	C2*	C	A	556	148.860	95.097	-1.009	1.00	42.57	A16S
ATOM	11488	O2*	C	A	556	147.621	95.774	-1.091	1.00	42.57	A16S
ATOM	11489	C3*	C	A	556	149.274	94.456	-2.327	1.00	42.57	A16S
ATOM	11490	O3*	C	A	556	149.087	95.300	-3.446	1.00	42.57	A16S
ATOM	11491	P	G	A	557	150.261	96.321	-3.857	1.00	40.21	A16S
ATOM	11492	O1P	G	A	557	149.735	97.130	-4.997	1.00	55.55	A16S
ATOM	11493	O2P	G	A	557	151.537	95.555	-4.024	1.00	55.55	A16S
ATOM	11494	O5*	G	A	557	150.408	97.253	-2.572	1.00	40.21	A16S
ATOM	11495	C5*	G	A	557	149.285	98.017	-2.093	1.00	40.21	A16S
ATOM	11496	C4*	G	A	557	149.663	98.805	-0.861	1.00	40.21	A16S
ATOM	11497	O4*	G	A	557	150.095	97.905	0.186	1.00	40.21	A16S
ATOM	11498	C1*	G	A	557	151.121	98.516	0.944	1.00	40.21	A16S
ATOM	11499	N9	G	A	557	152.281	97.632	0.921	1.00	55.55	A16S
ATOM	11500	C4	G	A	557	153.366	97.688	1.754	1.00	55.55	A16S
ATOM	11501	N3	G	A	557	153.572	98.595	2.729	1.00	55.55	A16S
ATOM	11502	C2	G	A	557	154.709	98.381	3.367	1.00	55.55	A16S
ATOM	11503	N2	G	A	557	155.083	99.187	4.364	1.00	55.55	A16S
ATOM	11504	N1	G	A	557	155.565	97.359	3.077	1.00	55.55	A16S
ATOM	11505	C6	G	A	557	155.363	96.408	2.080	1.00	55.55	A16S
ATOM	11506	O6	G	A	557	156.195	95.506	1.904	1.00	55.55	A16S
ATOM	11507	C5	G	A	557	154.162	96.630	1.384	1.00	55.55	A16S
ATOM	11508	N7	G	A	557	153.602	95.934	0.327	1.00	55.55	A16S
ATOM	11509	C8	G	A	557	152.491	96.566	0.082	1.00	55.55	A16S
ATOM	11510	C2*	G	A	557	151.352	99.918	0.381	1.00	40.21	A16S
ATOM	11511	O2*	G	A	557	150.579	100.800	1.158	1.00	40.21	A16S
ATOM	11512	C3*	G	A	557	150.810	99.779	-1.035	1.00	40.21	A16S
ATOM	11513	O3*	G	A	557	150.291	100.982	-1.560	1.00	40.21	A16S
ATOM	11514	P	G	A	558	150.828	101.532	-2.970	1.00	30.83	A16S
ATOM	11515	O1P	G	A	558	149.925	102.663	-3.385	1.00	41.82	A16S
ATOM	11516	O2P	G	A	558	151.049	100.387	-3.910	1.00	41.82	A16S
ATOM	11517	O5*	G	A	558	152.203	102.203	-2.557	1.00	30.83	A16S
ATOM	11518	C5*	G	A	558	152.152	103.447	-1.879	1.00	30.83	A16S
ATOM	11519	C4*	G	A	558	153.285	103.573	-0.920	1.00	30.83	A16S
ATOM	11520	O4*	G	A	558	153.430	102.377	-0.129	1.00	30.83	A16S
ATOM	11521	C1*	G	A	558	154.796	102.171	0.165	1.00	30.83	A16S
ATOM	11522	N9	G	A	558	155.158	100.870	-0.372	1.00	41.82	A16S
ATOM	11523	C4	G	A	558	156.094	99.998	0.124	1.00	41.82	A16S
ATOM	11524	N3	G	A	558	156.858	100.192	1.212	1.00	41.82	A16S
ATOM	11525	C2	G	A	558	157.651	99.166	1.447	1.00	41.82	A16S
ATOM	11526	N2	G	A	558	158.479	99.191	2.496	1.00	41.82	A16S
ATOM	11527	N1	G	A	558	157.689	98.036	0.674	1.00	41.82	A16S
ATOM	11528	C6	G	A	558	156.899	97.808	-0.449	1.00	41.82	A16S
ATOM	11529	O6	G	A	558	156.981	96.720	-1.068	1.00	41.82	A16S
ATOM	11530	C5	G	A	558	156.057	98.911	-0.715	1.00	41.82	A16S
ATOM	11531	N7	G	A	558	155.127	99.102	-1.727	1.00	41.82	A16S
ATOM	11532	C8	G	A	558	154.617	100.275	-1.481	1.00	41.82	A16S
ATOM	11533	C2*	G	A	558	155.585	103.313	-0.482	1.00	30.83	A16S
ATOM	11534	O2*	G	A	558	155.794	104.313	0.488	1.00	30.83	A16S
ATOM	11535	C3*	G	A	558	154.627	103.775	-1.567	1.00	30.83	A16S
ATOM	11536	O3*	G	A	558	154.721	105.152	-1.805	1.00	30.83	A16S
ATOM	11537	P	A	A	559	155.469	105.679	-3.101	1.00	41.63	A16S
ATOM	11538	O1P	A	A	559	156.869	105.925	-2.651	1.00	44.70	A16S
ATOM	11539	O2P	A	A	559	154.661	106.785	-3.695	1.00	44.70	A16S
ATOM	11540	O5*	A	A	559	155.455	104.430	-4.085	1.00	41.63	A16S
ATOM	11541	C5*	A	A	559	155.664	104.621	-5.494	1.00	41.63	A16S
ATOM	11542	C4*	A	A	559	155.186	103.417	-6.251	1.00	41.63	A16S
ATOM	11543	O4*	A	A	559	156.211	102.397	-6.300	1.00	41.63	A16S

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ATOM	11544	C1*	A	A 559	155.654	101.132	-6.026	1.00	41.63	A16S
ATOM	11545	N9	A	A 559	156.701	100.301	-5.414	1.00	44.70	A16S
ATOM	11546	C4	A	A 559	157.350	100.472	-4.210	1.00	44.70	A16S
ATOM	11547	N3	A	A 559	157.162	101.447	-3.310	1.00	44.70	A16S
ATOM	11548	C2	A	A 559	157.960	101.268	-2.249	1.00	44.70	A16S
ATOM	11549	N1	A	A 559	158.862	100.305	-2.010	1.00	44.70	A16S
ATOM	11550	C6	A	A 559	159.041	99.351	-2.940	1.00	44.70	A16S
ATOM	11551	N6	A	A 559	159.961	98.405	-2.709	1.00	44.70	A16S
ATOM	11552	C5	A	A 559	158.245	99.417	-4.108	1.00	44.70	A16S
ATOM	11553	N7	A	A 559	158.167	98.605	-5.227	1.00	44.70	A16S
ATOM	11554	C8	A	A 559	157.243	99.170	-5.966	1.00	44.70	A16S
ATOM	11555	C2*	A	A 559	154.394	101.362	-5.194	1.00	41.63	A16S
ATOM	11556	O2*	A	A 559	153.494	100.349	-5.569	1.00	41.63	A16S
ATOM	11557	C3*	A	A 559	153.973	102.759	-5.652	1.00	41.63	A16S
ATOM	11558	O3*	A	A 559	152.681	103.260	-5.977	1.00	41.63	A16S
ATOM	11559	P	U	A 560	151.922	102.758	-7.288	1.00	48.42	A16S
ATOM	11560	O1P	U	A 560	150.473	102.829	-6.977	1.00	68.13	A16S
ATOM	11561	O2P	U	A 560	152.511	101.473	-7.730	1.00	68.13	A16S
ATOM	11562	O5*	U	A 560	152.251	103.876	-8.365	1.00	48.42	A16S
ATOM	11563	C5*	U	A 560	152.891	103.539	-9.606	1.00	48.42	A16S
ATOM	11564	C4*	U	A 560	153.363	104.791	-10.301	1.00	48.42	A16S
ATOM	11565	O4*	U	A 560	152.221	105.481	-10.888	1.00	48.42	A16S
ATOM	11566	C1*	U	A 560	152.329	106.886	-10.668	1.00	48.42	A16S
ATOM	11567	N1	U	A 560	151.184	107.306	-9.839	1.00	68.13	A16S
ATOM	11568	C6	U	A 560	150.869	106.644	-8.672	1.00	68.13	A16S
ATOM	11569	C2	U	A 560	150.423	108.373	-10.267	1.00	68.13	A16S
ATOM	11570	O2	U	A 560	150.683	109.006	-11.271	1.00	68.13	A16S
ATOM	11571	N3	U	A 560	149.343	108.678	-9.466	1.00	68.13	A16S
ATOM	11572	C4	U	A 560	148.966	108.040	-8.295	1.00	68.13	A16S
ATOM	11573	O4	U	A 560	147.937	108.388	-7.707	1.00	68.13	A16S
ATOM	11574	C5	U	A 560	149.818	106.969	-7.910	1.00	68.13	A16S
ATOM	11575	C2*	U	A 560	153.693	107.155	-10.023	1.00	48.42	A16S
ATOM	11576	O2*	U	A 560	154.614	107.570	-11.011	1.00	48.42	A16S
ATOM	11577	C3*	U	A 560	153.986	105.807	-9.359	1.00	48.42	A16S
ATOM	11578	O3*	U	A 560	155.308	105.484	-8.881	1.00	48.42	A16S
ATOM	11579	P	U	A 561	156.540	105.233	-9.892	1.00	40.93	A16S
ATOM	11580	O1P	U	A 561	157.713	105.303	-8.980	1.00	53.96	A16S
ATOM	11581	O2P	U	A 561	156.492	106.092	-11.112	1.00	53.96	A16S
ATOM	11582	O5*	U	A 561	156.396	103.708	-10.333	1.00	40.93	A16S
ATOM	11583	C5*	U	A 561	156.380	103.332	-11.726	1.00	40.93	A16S
ATOM	11584	C4*	U	A 561	156.652	101.855	-11.872	1.00	40.93	A16S
ATOM	11585	O4*	U	A 561	158.015	101.594	-11.435	1.00	40.93	A16S
ATOM	11586	C1*	U	A 561	158.020	100.544	-10.489	1.00	40.93	A16S
ATOM	11587	N1	U	A 561	159.095	100.775	-9.512	1.00	53.96	A16S
ATOM	11588	C6	U	A 561	159.133	101.923	-8.778	1.00	53.96	A16S
ATOM	11589	C2	U	A 561	160.055	99.783	-9.337	1.00	53.96	A16S
ATOM	11590	O2	U	A 561	160.097	98.760	-10.005	1.00	53.96	A16S
ATOM	11591	N3	U	A 561	160.969	100.035	-8.350	1.00	53.96	A16S
ATOM	11592	C4	U	A 561	161.031	101.153	-7.541	1.00	53.96	A16S
ATOM	11593	O4	U	A 561	161.792	101.162	-6.562	1.00	53.96	A16S
ATOM	11594	C5	U	A 561	160.041	102.143	-7.828	1.00	53.96	A16S
ATOM	11595	C2*	U	A 561	156.624	100.525	-9.874	1.00	40.93	A16S
ATOM	11596	O2*	U	A 561	156.351	99.245	-9.345	1.00	40.93	A16S
ATOM	11597	C3*	U	A 561	155.752	100.916	-11.069	1.00	40.93	A16S
ATOM	11598	O3*	U	A 561	155.443	99.764	-11.840	1.00	40.93	A16S
ATOM	11599	P	C	A 562	154.165	98.865	-11.453	1.00	39.89	A16S
ATOM	11600	O1P	C	A 562	153.810	99.172	-10.042	1.00	45.30	A16S
ATOM	11601	O2P	C	A 562	154.396	97.455	-11.866	1.00	45.30	A16S
ATOM	11602	O5*	C	A 562	152.988	99.429	-12.365	1.00	39.89	A16S
ATOM	11603	C5*	C	A 562	153.210	99.683	-13.755	1.00	39.89	A16S
ATOM	11604	C4*	C	A 562	152.068	99.165	-14.587	1.00	39.89	A16S
ATOM	11605	O4*	C	A 562	152.694	98.740	-15.815	1.00	39.89	A16S
ATOM	11606	C1*	C	A 562	152.494	97.361	-16.005	1.00	39.89	A16S
ATOM	11607	N1	C	A 562	153.742	96.810	-16.547	1.00	45.30	A16S
ATOM	11608	C6	C	A 562	154.890	96.828	-15.809	1.00	45.30	A16S
ATOM	11609	C2	C	A 562	153.743	96.276	-17.840	1.00	45.30	A16S
ATOM	11610	O2	C	A 562	152.697	96.289	-18.498	1.00	45.30	A16S
ATOM	11611	N3	C	A 562	154.885	95.772	-18.343	1.00	45.30	A16S
ATOM	11612	C4	C	A 562	156.004	95.801	-17.615	1.00	45.30	A16S
ATOM	11613	N4	C	A 562	157.119	95.294	-18.154	1.00	45.30	A16S
ATOM	11614	C5	C	A 562	156.034	96.346	-16.302	1.00	45.30	A16S
ATOM	11615	C2*	C	A 562	152.069	96.780	-14.656	1.00	39.89	A16S
ATOM	11616	O2*	C	A 562	151.250	95.640	-14.848	1.00	39.89	A16S
ATOM	11617	C3*	C	A 562	151.311	97.950	-14.033	1.00	39.89	A16S
ATOM	11618	O3*	C	A 562	149.935	97.886	-14.518	1.00	39.89	A16S
ATOM	11619	P	A	A 563	148.759	98.809	-13.863	1.00	38.49	A16S
ATOM	11620	O1P	A	A 563	148.844	98.849	-12.358	1.00	40.79	A16S

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ATOM	11621	O2P	A	A 563	147.477	98.393	-14.517	1.00	40.79	A16S
ATOM	11622	O5*	A	A 563	149.120	100.284	-14.367	1.00	38.49	A16S
ATOM	11623	C5*	A	A 563	148.354	101.413	-13.927	1.00	38.49	A16S
ATOM	11624	C4*	A	A 563	148.877	102.687	-14.539	1.00	38.49	A16S
ATOM	11625	O4*	A	A 563	150.203	102.982	-14.067	1.00	38.49	A16S
ATOM	11626	C1*	A	A 563	150.737	103.973	-14.904	1.00	38.49	A16S
ATOM	11627	N9	A	A 563	152.191	103.875	-14.935	1.00	40.79	A16S
ATOM	11628	C4	A	A 563	152.979	103.046	-15.692	1.00	40.79	A16S
ATOM	11629	N3	A	A 563	152.579	102.112	-16.566	1.00	40.79	A16S
ATOM	11630	C2	A	A 563	153.626	101.503	-17.108	1.00	40.79	A16S
ATOM	11631	N1	A	A 563	154.922	101.705	-16.892	1.00	40.79	A16S
ATOM	11632	C6	A	A 563	155.286	102.650	-16.004	1.00	40.79	A16S
ATOM	11633	N6	A	A 563	156.582	102.852	-15.776	1.00	40.79	A16S
ATOM	11634	C5	A	A 563	154.279	103.368	-15.367	1.00	40.79	A16S
ATOM	11635	N7	A	A 563	154.315	104.384	-14.423	1.00	40.79	A16S
ATOM	11636	C8	A	A 563	153.054	104.642	-14.196	1.00	40.79	A16S
ATOM	11637	C2*	A	A 563	149.998	103.917	-16.245	1.00	38.49	A16S
ATOM	11638	O2*	A	A 563	149.319	105.146	-16.420	1.00	38.49	A16S
ATOM	11639	C3*	A	A 563	149.030	102.751	-16.047	1.00	38.49	A16S
ATOM	11640	O3*	A	A 563	147.790	103.138	-16.587	1.00	38.49	A16S
ATOM	11641	P	C	A 564	147.204	102.390	-17.865	1.00	34.32	A16S
ATOM	11642	O1P	C	A 564	147.522	100.938	-17.722	1.00	58.66	A16S
ATOM	11643	O2P	C	A 564	147.631	103.131	-19.078	1.00	58.66	A16S
ATOM	11644	O5*	C	A 564	145.634	102.564	-17.670	1.00	34.32	A16S
ATOM	11645	C5*	C	A 564	144.789	103.031	-18.732	1.00	34.32	A16S
ATOM	11646	C4*	C	A 564	143.444	103.452	-18.175	1.00	34.32	A16S
ATOM	11647	O4*	C	A 564	142.779	102.307	-17.575	1.00	34.32	A16S
ATOM	11648	C1*	C	A 564	142.051	102.727	-16.438	1.00	34.32	A16S
ATOM	11649	N1	C	A 564	142.572	102.030	-15.253	1.00	58.66	A16S
ATOM	11650	C6	C	A 564	143.729	101.306	-15.310	1.00	58.66	A16S
ATOM	11651	C2	C	A 564	141.865	102.132	-14.053	1.00	58.66	A16S
ATOM	11652	O2	C	A 564	140.812	102.799	-14.026	1.00	58.66	A16S
ATOM	11653	N3	C	A 564	142.344	101.512	-12.949	1.00	58.66	A16S
ATOM	11654	C4	C	A 564	143.481	100.820	-13.010	1.00	58.66	A16S
ATOM	11655	N4	C	A 564	143.927	100.244	-11.886	1.00	58.66	A16S
ATOM	11656	C5	C	A 564	144.217	100.692	-14.223	1.00	58.66	A16S
ATOM	11657	C2*	C	A 564	142.200	104.245	-16.318	1.00	34.32	A16S
ATOM	11658	O2*	C	A 564	141.137	104.856	-17.004	1.00	34.32	A16S
ATOM	11659	C3*	C	A 564	143.490	104.498	-17.069	1.00	34.32	A16S
ATOM	11660	O3*	C	A 564	143.450	105.802	-17.612	1.00	34.32	A16S
ATOM	11661	P	U	A 565	144.417	106.932	-17.026	1.00	40.66	A16S
ATOM	11662	O1P	U	A 565	144.141	108.143	-17.838	1.00	56.87	A16S
ATOM	11663	O2P	U	A 565	145.803	106.396	-16.945	1.00	56.87	A16S
ATOM	11664	O5*	U	A 565	143.872	107.189	-15.558	1.00	40.66	A16S
ATOM	11665	C5*	U	A 565	142.690	107.955	-15.376	1.00	40.66	A16S
ATOM	11666	C4*	U	A 565	142.239	107.893	-13.951	1.00	40.66	A16S
ATOM	11667	O4*	U	A 565	142.015	106.509	-13.585	1.00	40.66	A16S
ATOM	11668	C1*	U	A 565	142.243	106.358	-12.195	1.00	40.66	A16S
ATOM	11669	N1	U	A 565	143.226	105.290	-11.971	1.00	56.87	A16S
ATOM	11670	C6	U	A 565	144.184	104.995	-12.905	1.00	56.87	A16S
ATOM	11671	C2	U	A 565	143.164	104.597	-10.770	1.00	56.87	A16S
ATOM	11672	O2	U	A 565	142.324	104.815	-9.909	1.00	56.87	A16S
ATOM	11673	N3	U	A 565	144.125	103.638	-10.613	1.00	56.87	A16S
ATOM	11674	C4	U	A 565	145.114	103.307	-11.506	1.00	56.87	A16S
ATOM	11675	O4	U	A 565	145.883	102.393	-11.237	1.00	56.87	A16S
ATOM	11676	C5	U	A 565	145.106	104.058	-12.715	1.00	56.87	A16S
ATOM	11677	C2*	U	A 565	142.714	107.705	-11.647	1.00	40.66	A16S
ATOM	11678	O2*	U	A 565	141.594	108.372	-11.115	1.00	40.66	A16S
ATOM	11679	C3*	U	A 565	143.216	108.396	-12.905	1.00	40.66	A16S
ATOM	11680	O3*	U	A 565	143.202	109.819	-12.774	1.00	40.66	A16S
ATOM	11681	P	G	A 566	144.575	110.598	-12.419	1.00	43.42	A16S
ATOM	11682	O1P	G	A 566	144.425	112.012	-12.883	1.00	43.18	A16S
ATOM	11683	O2P	G	A 566	144.906	110.333	-10.981	1.00	43.18	A16S
ATOM	11684	O5*	G	A 566	145.653	109.838	-13.326	1.00	43.42	A16S
ATOM	11685	C5*	G	A 566	146.974	110.385	-13.554	1.00	43.42	A16S
ATOM	11686	C4*	G	A 566	147.940	109.297	-13.998	1.00	43.42	A16S
ATOM	11687	O4*	G	A 566	148.331	108.497	-12.856	1.00	43.42	A16S
ATOM	11688	C1*	G	A 566	148.031	107.146	-13.097	1.00	43.42	A16S
ATOM	11689	N9	G	A 566	147.598	106.577	-11.828	1.00	43.18	A16S
ATOM	11690	C4	G	A 566	148.101	105.463	-11.189	1.00	43.18	A16S
ATOM	11691	N3	G	A 566	149.076	104.643	-11.650	1.00	43.18	A16S
ATOM	11692	C2	G	A 566	149.378	103.688	-10.777	1.00	43.18	A16S
ATOM	11693	N2	G	A 566	150.335	102.794	-11.054	1.00	43.18	A16S
ATOM	11694	N1	G	A 566	148.764	103.547	-9.555	1.00	43.18	A16S
ATOM	11695	C6	G	A 566	147.764	104.385	-9.059	1.00	43.18	A16S
ATOM	11696	O6	G	A 566	147.299	104.194	-7.926	1.00	43.18	A16S
ATOM	11697	C5	G	A 566	147.431	105.403	-9.988	1.00	43.18	A16S

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ATOM	11698	N7	G	A	566	146.506	106.425	-9.890	1.00	43.18	A16S
ATOM	11699	C8	G	A	566	146.633	107.086	-11.005	1.00	43.18	A16S
ATOM	11700	C2*	G	A	566	146.990	107.129	-14.218	1.00	43.42	A16S
ATOM	11701	O2*	G	A	566	147.121	105.946	-14.966	1.00	43.42	A16S
ATOM	11702	C3*	G	A	566	147.403	108.336	-15.053	1.00	43.42	A16S
ATOM	11703	O3*	G	A	566	148.454	107.907	-15.925	1.00	43.42	A16S
ATOM	11704	P	G	A	567	149.068	108.902	-17.031	1.00	56.62	A16S
ATOM	11705	O1P	G	A	567	148.550	108.497	-18.364	1.00	78.54	A16S
ATOM	11706	O2P	G	A	567	148.937	110.317	-16.584	1.00	78.54	A16S
ATOM	11707	O5*	G	A	567	150.610	108.512	-16.975	1.00	43.24	A16S
ATOM	11708	C5*	G	A	567	151.366	108.718	-15.756	1.00	43.24	A16S
ATOM	11709	C4*	G	A	567	152.836	108.412	-15.966	1.00	43.24	A16S
ATOM	11710	O4*	G	A	567	153.101	106.994	-15.887	1.00	43.24	A16S
ATOM	11711	C1*	G	A	567	154.164	106.660	-16.767	1.00	43.24	A16S
ATOM	11712	N9	G	A	567	153.671	105.694	-17.747	1.00	40.28	A16S
ATOM	11713	C4	G	A	567	154.424	104.817	-18.497	1.00	40.28	A16S
ATOM	11714	N3	G	A	567	155.766	104.681	-18.456	1.00	40.28	A16S
ATOM	11715	C2	G	A	567	156.192	103.758	-19.308	1.00	40.28	A16S
ATOM	11716	N2	G	A	567	157.509	103.501	-19.415	1.00	40.28	A16S
ATOM	11717	N1	G	A	567	155.364	103.027	-20.119	1.00	40.28	A16S
ATOM	11718	C6	G	A	567	153.985	103.156	-20.173	1.00	40.28	A16S
ATOM	11719	O6	G	A	567	153.333	102.450	-20.940	1.00	40.28	A16S
ATOM	11720	C5	G	A	567	153.520	104.138	-19.282	1.00	40.28	A16S
ATOM	11721	N7	G	A	567	152.229	104.572	-19.031	1.00	40.28	A16S
ATOM	11722	C8	G	A	567	152.366	105.491	-18.115	1.00	40.28	A16S
ATOM	11723	C2*	G	A	567	154.646	107.955	-17.427	1.00	43.24	A16S
ATOM	11724	O2*	G	A	567	155.732	108.497	-16.703	1.00	43.24	A16S
ATOM	11725	C3*	G	A	567	153.429	108.851	-17.292	1.00	43.24	A16S
ATOM	11726	O3*	G	A	567	153.827	110.205	-17.210	1.00	43.24	A16S
ATOM	11727	P	G	A	568	154.175	111.015	-18.546	1.00	50.07	A16S
ATOM	11728	O1P	G	A	568	154.321	112.432	-18.112	1.00	41.50	A16S
ATOM	11729	O2P	G	A	568	153.248	110.663	-19.679	1.00	41.50	A16S
ATOM	11730	O5*	G	A	568	155.613	110.467	-18.904	1.00	50.07	A16S
ATOM	11731	C5*	G	A	568	155.965	110.198	-20.253	1.00	50.07	A16S
ATOM	11732	C4*	G	A	568	156.941	109.070	-20.288	1.00	50.07	A16S
ATOM	11733	O4*	G	A	568	156.249	107.821	-20.037	1.00	50.07	A16S
ATOM	11734	C1*	G	A	568	156.853	106.788	-20.785	1.00	50.07	A16S
ATOM	11735	N9	G	A	568	155.836	106.173	-21.650	1.00	41.50	A16S
ATOM	11736	C4	G	A	568	156.037	105.178	-22.582	1.00	41.50	A16S
ATOM	11737	N3	G	A	568	157.213	104.591	-22.870	1.00	41.50	A16S
ATOM	11738	C2	G	A	568	157.088	103.665	-23.795	1.00	41.50	A16S
ATOM	11739	N2	G	A	568	158.164	102.970	-24.182	1.00	41.50	A16S
ATOM	11740	N1	G	A	568	155.903	103.350	-24.405	1.00	41.50	A16S
ATOM	11741	C6	G	A	568	154.683	103.952	-24.133	1.00	41.50	A16S
ATOM	11742	O6	G	A	568	153.680	103.608	-24.760	1.00	41.50	A16S
ATOM	11743	C5	G	A	568	154.799	104.929	-23.128	1.00	41.50	A16S
ATOM	11744	N7	G	A	568	153.837	105.737	-22.555	1.00	41.50	A16S
ATOM	11745	C8	G	A	568	154.496	106.460	-21.689	1.00	41.50	A16S
ATOM	11746	C2*	G	A	568	158.062	107.408	-21.499	1.00	50.07	A16S
ATOM	11747	O2*	G	A	568	159.171	107.298	-20.628	1.00	50.07	A16S
ATOM	11748	C3*	G	A	568	157.650	108.869	-21.606	1.00	50.07	A16S
ATOM	11749	O3*	G	A	568	158.751	109.779	-21.686	1.00	50.07	A16S
ATOM	11750	P	C	A	569	159.052	110.551	-23.072	1.00	43.29	A16S
ATOM	11751	O1P	C	A	569	160.059	111.631	-22.819	1.00	35.90	A16S
ATOM	11752	O2P	C	A	569	157.767	110.881	-23.772	1.00	35.90	A16S
ATOM	11753	O5*	C	A	569	159.748	109.425	-23.952	1.00	43.29	A16S
ATOM	11754	C5*	C	A	569	161.050	108.925	-23.625	1.00	43.29	A16S
ATOM	11755	C4*	C	A	569	161.514	108.024	-24.722	1.00	43.29	A16S
ATOM	11756	O4*	C	A	569	160.721	106.816	-24.699	1.00	43.29	A16S
ATOM	11757	C1*	C	A	569	160.473	106.390	-26.024	1.00	43.29	A16S
ATOM	11758	N1	C	A	569	159.027	106.152	-26.196	1.00	35.90	A16S
ATOM	11759	C6	C	A	569	158.104	106.806	-25.435	1.00	35.90	A16S
ATOM	11760	C2	C	A	569	158.609	105.226	-27.165	1.00	35.90	A16S
ATOM	11761	O2	C	A	569	159.459	104.633	-27.838	1.00	35.90	A16S
ATOM	11762	N3	C	A	569	157.290	104.994	-27.345	1.00	35.90	A16S
ATOM	11763	C4	C	A	569	156.399	105.632	-26.599	1.00	35.90	A16S
ATOM	11764	N4	C	A	569	155.117	105.363	-26.811	1.00	35.90	A16S
ATOM	11765	C5	C	A	569	156.789	106.575	-25.598	1.00	35.90	A16S
ATOM	11766	C2*	C	A	569	161.096	107.404	-26.991	1.00	43.29	A16S
ATOM	11767	O2*	C	A	569	162.322	106.906	-27.492	1.00	43.29	A16S
ATOM	11768	C3*	C	A	569	161.290	108.625	-26.099	1.00	43.29	A16S
ATOM	11769	O3*	C	A	569	162.413	109.413	-26.495	1.00	43.29	A16S
ATOM	11770	P	G	A	570	162.196	110.681	-27.456	1.00	37.24	A16S
ATOM	11771	O1P	G	A	570	161.736	111.768	-26.556	1.00	55.28	A16S
ATOM	11772	O2P	G	A	570	161.336	110.260	-28.602	1.00	55.28	A16S
ATOM	11773	O5*	G	A	570	163.658	111.020	-28.017	1.00	37.24	A16S
ATOM	11774	C5*	G	A	570	164.132	110.425	-29.270	1.00	37.24	A16S

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ATOM	11775	C4*	G	A	570	165.423	111.080	-29.744	1.00	37.24	A16S
ATOM	11776	O4*	G	A	570	165.196	112.496	-29.948	1.00	37.24	A16S
ATOM	11777	C1*	G	A	570	166.293	113.235	-29.460	1.00	37.24	A16S
ATOM	11778	N9	G	A	570	165.782	114.100	-28.398	1.00	55.28	A16S
ATOM	11779	C4	G	A	570	166.492	114.805	-27.449	1.00	55.28	A16S
ATOM	11780	N3	G	A	570	167.829	114.849	-27.322	1.00	55.28	A16S
ATOM	11781	C2	G	A	570	168.202	115.619	-26.317	1.00	55.28	A16S
ATOM	11782	N2	G	A	570	169.494	115.791	-26.052	1.00	55.28	A16S
ATOM	11783	N1	G	A	570	167.338	116.280	-25.495	1.00	55.28	A16S
ATOM	11784	C6	G	A	570	165.960	116.246	-25.603	1.00	55.28	A16S
ATOM	11785	O6	G	A	570	165.265	116.876	-24.802	1.00	55.28	A16S
ATOM	11786	C5	G	A	570	165.543	115.441	-26.682	1.00	55.28	A16S
ATOM	11787	N7	G	A	570	164.267	115.162	-27.145	1.00	55.28	A16S
ATOM	11788	C8	G	A	570	164.458	114.365	-28.158	1.00	55.28	A16S
ATOM	11789	C2*	G	A	570	167.397	112.241	-29.071	1.00	37.24	A16S
ATOM	11790	O2*	G	A	570	168.296	112.133	-30.158	1.00	37.24	A16S
ATOM	11791	C3*	G	A	570	166.609	110.961	-28.797	1.00	37.24	A16S
ATOM	11792	O3*	G	A	570	167.360	109.783	-29.132	1.00	37.24	A16S
ATOM	11793	P	U	A	571	167.662	108.665	-28.007	1.00	31.25	A16S
ATOM	11794	O1P	U	A	571	168.138	107.400	-28.631	1.00	47.41	A16S
ATOM	11795	O2P	U	A	571	166.510	108.614	-27.058	1.00	47.41	A16S
ATOM	11796	O5*	U	A	571	168.921	109.275	-27.247	1.00	31.25	A16S
ATOM	11797	C5*	U	A	571	170.198	109.365	-27.903	1.00	31.25	A16S
ATOM	11798	C4*	U	A	571	171.164	110.163	-27.064	1.00	31.25	A16S
ATOM	11799	O4*	U	A	571	170.754	111.556	-27.073	1.00	31.25	A16S
ATOM	11800	C1*	U	A	571	171.000	112.129	-25.802	1.00	31.25	A16S
ATOM	11801	N1	U	A	571	169.707	112.536	-25.218	1.00	47.41	A16S
ATOM	11802	C6	U	A	571	168.528	111.960	-25.630	1.00	47.41	A16S
ATOM	11803	C2	U	A	571	169.706	113.524	-24.245	1.00	47.41	A16S
ATOM	11804	O2	U	A	571	170.727	114.060	-23.825	1.00	47.41	A16S
ATOM	11805	N3	U	A	571	168.465	113.869	-23.782	1.00	47.41	A16S
ATOM	11806	C4	U	A	571	167.259	113.351	-24.177	1.00	47.41	A16S
ATOM	11807	O4	U	A	571	166.222	113.876	-23.777	1.00	47.41	A16S
ATOM	11808	C5	U	A	571	167.345	112.324	-25.156	1.00	47.41	A16S
ATOM	11809	C2*	U	A	571	171.737	111.080	-24.965	1.00	31.25	A16S
ATOM	11810	O2*	U	A	571	173.127	111.281	-25.144	1.00	31.25	A16S
ATOM	11811	C3*	U	A	571	171.250	109.782	-25.593	1.00	31.25	A16S
ATOM	11812	O3*	U	A	571	172.150	108.710	-25.366	1.00	31.25	A16S
ATOM	11813	P	A	A	572	171.576	107.243	-25.011	1.00	45.95	A16S
ATOM	11814	O1P	A	A	572	172.738	106.289	-25.184	1.00	55.21	A16S
ATOM	11815	O2P	A	A	572	170.291	106.994	-25.742	1.00	55.21	A16S
ATOM	11816	O5*	A	A	572	171.237	107.281	-23.454	1.00	45.95	A16S
ATOM	11817	C5*	A	A	572	170.119	108.016	-22.928	1.00	45.95	A16S
ATOM	11818	C4*	A	A	572	169.903	107.623	-21.488	1.00	45.95	A16S
ATOM	11819	O4*	A	A	572	169.160	108.612	-20.756	1.00	45.95	A16S
ATOM	11820	C1*	A	A	572	168.625	108.012	-19.595	1.00	45.95	A16S
ATOM	11821	N9	A	A	572	167.345	108.655	-19.311	1.00	55.21	A16S
ATOM	11822	C4	A	A	572	167.189	109.763	-18.515	1.00	55.21	A16S
ATOM	11823	N3	A	A	572	168.129	110.376	-17.784	1.00	55.21	A16S
ATOM	11824	C2	A	A	572	167.638	111.466	-17.211	1.00	55.21	A16S
ATOM	11825	N1	A	A	572	166.415	111.981	-17.289	1.00	55.21	A16S
ATOM	11826	C6	A	A	572	165.496	111.346	-18.038	1.00	55.21	A16S
ATOM	11827	N6	A	A	572	164.286	111.888	-18.155	1.00	55.21	A16S
ATOM	11828	C5	A	A	572	165.881	110.160	-18.671	1.00	55.21	A16S
ATOM	11829	N7	A	A	572	165.194	109.269	-19.479	1.00	55.21	A16S
ATOM	11830	C8	A	A	572	166.104	108.385	-19.817	1.00	55.21	A16S
ATOM	11831	C2*	A	A	572	168.681	106.492	-19.784	1.00	45.95	A16S
ATOM	11832	O2*	A	A	572	169.632	105.977	-18.877	1.00	45.95	A16S
ATOM	11833	C3*	A	A	572	169.143	106.345	-21.238	1.00	45.95	A16S
ATOM	11834	O3*	A	A	572	170.066	105.282	-21.358	1.00	45.95	A16S
ATOM	11835	P	A	A	573	169.786	104.106	-22.403	1.00	41.81	A16S
ATOM	11836	O1P	A	A	573	171.075	103.379	-22.571	1.00	49.57	A16S
ATOM	11837	O2P	A	A	573	169.120	104.722	-23.593	1.00	49.57	A16S
ATOM	11838	O5*	A	A	573	168.759	103.166	-21.624	1.00	41.81	A16S
ATOM	11839	C5*	A	A	573	168.954	101.748	-21.541	1.00	41.81	A16S
ATOM	11840	C4*	A	A	573	167.643	101.050	-21.766	1.00	41.81	A16S
ATOM	11841	O4*	A	A	573	166.772	101.258	-20.625	1.00	41.81	A16S
ATOM	11842	C1*	A	A	573	165.440	101.495	-21.070	1.00	41.81	A16S
ATOM	11843	N9	A	A	573	164.992	102.789	-20.523	1.00	49.57	A16S
ATOM	11844	C4	A	A	573	163.744	103.116	-20.040	1.00	49.57	A16S
ATOM	11845	N3	A	A	573	162.656	102.338	-20.000	1.00	49.57	A16S
ATOM	11846	C2	A	A	573	161.638	102.990	-19.450	1.00	49.57	A16S
ATOM	11847	N1	A	A	573	161.589	104.236	-18.963	1.00	49.57	A16S
ATOM	11848	C6	A	A	573	162.703	104.988	-19.006	1.00	49.57	A16S
ATOM	11849	N6	A	A	573	162.661	106.223	-18.493	1.00	49.57	A16S
ATOM	11850	C5	A	A	573	163.844	104.419	-19.581	1.00	49.57	A16S
ATOM	11851	N7	A	A	573	165.115	104.915	-19.790	1.00	49.57	A16S

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ATOM	11852	C8	A	A	573	165.754	103.919	-20.356	1.00	49.57	A16S
ATOM	11853	C2*	A	A	573	165.421	101.355	-22.601	1.00	41.81	A16S
ATOM	11854	O2*	A	A	573	164.969	100.057	-22.933	1.00	41.81	A16S
ATOM	11855	C3*	A	A	573	166.887	101.600	-22.963	1.00	41.81	A16S
ATOM	11856	O3*	A	A	573	167.324	100.944	-24.154	1.00	41.81	A16S
ATOM	11857	P	A	A	574	167.333	101.744	-25.555	1.00	38.23	A16S
ATOM	11858	O1P	A	A	574	167.974	100.879	-26.577	1.00	45.21	A16S
ATOM	11859	O2P	A	A	574	167.821	103.143	-25.362	1.00	45.21	A16S
ATOM	11860	O5*	A	A	574	165.795	101.781	-25.939	1.00	38.23	A16S
ATOM	11861	C5*	A	A	574	165.047	100.560	-26.034	1.00	38.23	A16S
ATOM	11862	C4*	A	A	574	163.594	100.877	-26.151	1.00	38.23	A16S
ATOM	11863	O4*	A	A	574	163.154	101.471	-24.912	1.00	38.23	A16S
ATOM	11864	C1*	A	A	574	162.288	102.550	-25.194	1.00	38.23	A16S
ATOM	11865	N9	A	A	574	162.832	103.742	-24.545	1.00	45.21	A16S
ATOM	11866	C4	A	A	574	162.259	104.412	-23.492	1.00	45.21	A16S
ATOM	11867	N3	A	A	574	161.102	104.125	-22.875	1.00	45.21	A16S
ATOM	11868	C2	A	A	574	160.869	104.993	-21.909	1.00	45.21	A16S
ATOM	11869	N1	A	A	574	161.598	106.030	-21.520	1.00	45.21	A16S
ATOM	11870	C6	A	A	574	162.750	106.287	-22.161	1.00	45.21	A16S
ATOM	11871	N6	A	A	574	163.478	107.329	-21.781	1.00	45.21	A16S
ATOM	11872	C5	A	A	574	163.116	105.448	-23.196	1.00	45.21	A16S
ATOM	11873	N7	A	A	574	164.214	105.443	-24.043	1.00	45.21	A16S
ATOM	11874	C8	A	A	574	163.997	104.416	-24.826	1.00	45.21	A16S
ATOM	11875	C2*	A	A	574	162.122	102.653	-26.716	1.00	38.23	A16S
ATOM	11876	O2*	A	A	574	160.962	101.969	-27.131	1.00	38.23	A16S
ATOM	11877	C3*	A	A	574	163.348	101.921	-27.216	1.00	38.23	A16S
ATOM	11878	O3*	A	A	574	163.105	101.280	-28.446	1.00	38.23	A16S
ATOM	11879	P	G	A	575	163.928	101.733	-29.736	1.00	51.01	A16S
ATOM	11880	O1P	G	A	575	163.425	100.958	-30.910	1.00	48.76	A16S
ATOM	11881	O2P	G	A	575	165.367	101.683	-29.381	1.00	48.76	A16S
ATOM	11882	O5*	G	A	575	163.541	103.269	-29.903	1.00	51.01	A16S
ATOM	11883	C5*	G	A	575	162.233	103.648	-30.358	1.00	51.01	A16S
ATOM	11884	C4*	G	A	575	162.093	103.317	-31.818	1.00	51.01	A16S
ATOM	11885	O4*	G	A	575	160.710	103.280	-32.206	1.00	51.01	A16S
ATOM	11886	C1*	G	A	575	160.407	104.360	-33.072	1.00	51.01	A16S
ATOM	11887	N9	G	A	575	159.302	105.074	-32.431	1.00	48.76	A16S
ATOM	11888	C4	G	A	575	157.968	104.939	-32.738	1.00	48.76	A16S
ATOM	11889	N3	G	A	575	157.463	104.224	-33.761	1.00	48.76	A16S
ATOM	11890	C2	G	A	575	156.140	104.224	-33.760	1.00	48.76	A16S
ATOM	11891	N2	G	A	575	155.469	103.580	-34.726	1.00	48.76	A16S
ATOM	11892	N1	G	A	575	155.369	104.859	-32.822	1.00	48.76	A16S
ATOM	11893	C6	G	A	575	155.858	105.605	-31.760	1.00	48.76	A16S
ATOM	11894	O6	G	A	575	155.059	106.138	-30.967	1.00	48.76	A16S
ATOM	11895	C5	G	A	575	157.294	105.632	-31.759	1.00	48.76	A16S
ATOM	11896	N7	G	A	575	158.188	106.253	-30.897	1.00	48.76	A16S
ATOM	11897	C8	G	A	575	159.365	105.914	-31.349	1.00	48.76	A16S
ATOM	11898	C2*	G	A	575	161.687	105.161	-33.322	1.00	51.01	A16S
ATOM	11899	O2*	G	A	575	161.806	105.585	-34.671	1.00	51.01	A16S
ATOM	11900	C3*	G	A	575	162.793	104.231	-32.792	1.00	51.01	A16S
ATOM	11901	O3*	G	A	575	163.710	103.443	-33.590	1.00	51.01	A16S
ATOM	11902	P	G	A	576	163.269	102.700	-34.954	1.00	42.54	A16S
ATOM	11903	O1P	G	A	576	164.441	101.798	-35.116	1.00	44.73	A16S
ATOM	11904	O2P	G	A	576	162.901	103.660	-36.061	1.00	44.73	A16S
ATOM	11905	O5*	G	A	576	162.029	101.762	-34.594	1.00	42.54	A16S
ATOM	11906	C5*	G	A	576	162.241	100.439	-34.083	1.00	42.54	A16S
ATOM	11907	C4*	G	A	576	161.796	99.389	-35.086	1.00	42.54	A16S
ATOM	11908	O4*	G	A	576	160.362	99.139	-35.008	1.00	42.54	A16S
ATOM	11909	C1*	G	A	576	159.830	99.087	-36.312	1.00	42.54	A16S
ATOM	11910	N9	G	A	576	158.478	99.630	-36.283	1.00	44.73	A16S
ATOM	11911	C4	G	A	576	157.325	99.014	-36.720	1.00	44.73	A16S
ATOM	11912	N3	G	A	576	157.220	97.759	-37.195	1.00	44.73	A16S
ATOM	11913	C2	G	A	576	155.980	97.480	-37.574	1.00	44.73	A16S
ATOM	11914	N2	G	A	576	155.683	96.275	-38.059	1.00	44.73	A16S
ATOM	11915	N1	G	A	576	154.939	98.361	-37.507	1.00	44.73	A16S
ATOM	11916	C6	G	A	576	155.032	99.661	-37.039	1.00	44.73	A16S
ATOM	11917	O6	G	A	576	154.042	100.402	-37.068	1.00	44.73	A16S
ATOM	11918	C5	G	A	576	156.339	99.964	-36.599	1.00	44.73	A16S
ATOM	11919	N7	G	A	576	156.844	101.127	-36.043	1.00	44.73	A16S
ATOM	11920	C8	G	A	576	158.110	100.880	-35.862	1.00	44.73	A16S
ATOM	11921	C2*	G	A	576	160.788	99.903	-37.190	1.00	42.54	A16S
ATOM	11922	O2*	G	A	576	160.693	99.486	-38.541	1.00	42.54	A16S
ATOM	11923	C3*	G	A	576	162.145	99.580	-36.563	1.00	42.54	A16S
ATOM	11924	O3*	G	A	576	162.552	98.320	-37.094	1.00	42.54	A16S
ATOM	11925	P	G	A	577	164.037	98.120	-37.677	1.00	43.15	A16S
ATOM	11926	O1P	G	A	577	164.029	96.769	-38.333	1.00	33.20	A16S
ATOM	11927	O2P	G	A	577	165.000	98.394	-36.575	1.00	33.20	A16S
ATOM	11928	O5*	G	A	577	164.170	99.226	-38.819	1.00	43.15	A16S

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ATOM	11929	C5*	G	A	577	165.037	100.359	-38.671	1.00	43.15	A16S
ATOM	11930	C4*	G	A	577	165.291	100.977	-40.020	1.00	43.15	A16S
ATOM	11931	O4*	G	A	577	165.956	99.989	-40.842	1.00	43.15	A16S
ATOM	11932	C1*	G	A	577	165.466	100.054	-42.162	1.00	43.15	A16S
ATOM	11933	N9	G	A	577	164.860	98.774	-42.495	1.00	33.20	A16S
ATOM	11934	C4	G	A	577	164.333	98.455	-43.714	1.00	33.20	A16S
ATOM	11935	N3	G	A	577	164.284	99.271	-44.780	1.00	33.20	A16S
ATOM	11936	C2	G	A	577	163.695	98.704	-45.806	1.00	33.20	A16S
ATOM	11937	N2	G	A	577	163.537	99.396	-46.933	1.00	33.20	A16S
ATOM	11938	N1	G	A	577	163.212	97.427	-45.798	1.00	33.20	A16S
ATOM	11939	C6	G	A	577	163.260	96.562	-44.715	1.00	33.20	A16S
ATOM	11940	O6	G	A	577	162.804	95.424	-44.821	1.00	33.20	A16S
ATOM	11941	C5	G	A	577	163.871	97.169	-43.591	1.00	33.20	A16S
ATOM	11942	N7	G	A	577	164.097	96.683	-42.307	1.00	33.20	A16S
ATOM	11943	C8	G	A	577	164.689	97.671	-41.691	1.00	33.20	A16S
ATOM	11944	C2*	G	A	577	164.447	101.186	-42.246	1.00	43.15	A16S
ATOM	11945	O2*	G	A	577	165.067	102.305	-42.829	1.00	43.15	A16S
ATOM	11946	C3*	G	A	577	164.027	101.335	-40.787	1.00	43.15	A16S
ATOM	11947	O3*	G	A	577	163.561	102.644	-40.445	1.00	43.15	A16S
ATOM	11948	P	C	A	578	161.984	102.985	-40.518	1.00	42.02	A16S
ATOM	11949	O1P	C	A	578	161.909	104.377	-39.974	1.00	25.08	A16S
ATOM	11950	O2P	C	A	578	161.139	101.898	-39.926	1.00	25.08	A16S
ATOM	11951	O5*	C	A	578	161.668	103.045	-42.076	1.00	42.02	A16S
ATOM	11952	C5*	C	A	578	162.028	104.210	-42.824	1.00	42.02	A16S
ATOM	11953	C4*	C	A	578	161.582	104.082	-44.251	1.00	42.02	A16S
ATOM	11954	O4*	C	A	578	162.226	102.935	-44.849	1.00	42.02	A16S
ATOM	11955	C1*	C	A	578	161.369	102.369	-45.810	1.00	42.02	A16S
ATOM	11956	N1	C	A	578	161.070	101.003	-45.402	1.00	25.08	A16S
ATOM	11957	C6	C	A	578	161.321	100.576	-44.132	1.00	25.08	A16S
ATOM	11958	C2	C	A	578	160.525	100.128	-46.347	1.00	25.08	A16S
ATOM	11959	O2	C	A	578	160.301	100.549	-47.492	1.00	25.08	A16S
ATOM	11960	N3	C	A	578	160.260	98.852	-46.000	1.00	25.08	A16S
ATOM	11961	C4	C	A	578	160.537	98.433	-44.769	1.00	25.08	A16S
ATOM	11962	N4	C	A	578	160.309	97.148	-44.484	1.00	25.08	A16S
ATOM	11963	C5	C	A	578	161.075	99.309	-43.776	1.00	25.08	A16S
ATOM	11964	C2*	C	A	578	160.105	103.218	-45.873	1.00	42.02	A16S
ATOM	11965	O2*	C	A	578	160.245	104.182	-46.899	1.00	42.02	A16S
ATOM	11966	C3*	C	A	578	160.100	103.862	-44.499	1.00	42.02	A16S
ATOM	11967	O3*	C	A	578	159.386	105.088	-44.538	1.00	42.02	A16S
ATOM	11968	P	G	A	579	157.779	105.080	-44.481	1.00	38.04	A16S
ATOM	11969	O1P	G	A	579	157.405	106.520	-44.606	1.00	48.44	A16S
ATOM	11970	O2P	G	A	579	157.317	104.285	-43.299	1.00	48.44	A16S
ATOM	11971	O5*	G	A	579	157.289	104.278	-45.774	1.00	38.04	A16S
ATOM	11972	C5*	G	A	579	157.131	104.935	-47.036	1.00	38.04	A16S
ATOM	11973	C4*	G	A	579	156.991	103.919	-48.146	1.00	38.04	A16S
ATOM	11974	O4*	G	A	579	157.680	102.702	-47.769	1.00	38.04	A16S
ATOM	11975	C1*	G	A	579	157.109	101.598	-48.440	1.00	38.04	A16S
ATOM	11976	N9	G	A	579	156.843	100.544	-47.473	1.00	48.44	A16S
ATOM	11977	C4	G	A	579	156.392	99.291	-47.758	1.00	48.44	A16S
ATOM	11978	N3	G	A	579	156.126	98.814	-48.990	1.00	48.44	A16S
ATOM	11979	C2	G	A	579	155.695	97.558	-48.950	1.00	48.44	A16S
ATOM	11980	N2	G	A	579	155.396	96.912	-50.098	1.00	48.44	A16S
ATOM	11981	N1	G	A	579	155.529	96.839	-47.779	1.00	48.44	A16S
ATOM	11982	C6	G	A	579	155.792	97.322	-46.498	1.00	48.44	A16S
ATOM	11983	O6	G	A	579	155.591	96.601	-45.506	1.00	48.44	A16S
ATOM	11984	C5	G	A	579	156.271	98.656	-46.537	1.00	48.44	A16S
ATOM	11985	N7	G	A	579	156.657	99.494	-45.507	1.00	48.44	A16S
ATOM	11986	C8	G	A	579	156.987	100.603	-46.109	1.00	48.44	A16S
ATOM	11987	C2*	G	A	579	155.871	102.097	-49.179	1.00	38.04	A16S
ATOM	11988	O2*	G	A	579	156.212	102.273	-50.541	1.00	38.04	A16S
ATOM	11989	C3*	G	A	579	155.598	103.428	-48.482	1.00	38.04	A16S
ATOM	11990	O3*	G	A	579	154.932	104.329	-49.360	1.00	38.04	A16S
ATOM	11991	P	U	A	580	153.329	104.474	-49.269	1.00	50.54	A16S
ATOM	11992	O1P	U	A	580	152.910	105.563	-50.208	1.00	51.53	A16S
ATOM	11993	O2P	U	A	580	152.987	104.574	-47.819	1.00	51.53	A16S
ATOM	11994	O5*	U	A	580	152.767	103.072	-49.789	1.00	50.54	A16S
ATOM	11995	C5*	U	A	580	152.572	102.824	-51.190	1.00	50.54	A16S
ATOM	11996	C4*	U	A	580	152.068	101.416	-51.401	1.00	50.54	A16S
ATOM	11997	O4*	U	A	580	153.022	100.487	-50.827	1.00	50.54	A16S
ATOM	11998	C1*	U	A	580	152.342	99.356	-50.312	1.00	50.54	A16S
ATOM	11999	N1	U	A	580	152.613	99.259	-48.869	1.00	51.53	A16S
ATOM	12000	C6	U	A	580	153.046	100.340	-48.145	1.00	51.53	A16S
ATOM	12001	C2	U	A	580	152.398	98.032	-48.250	1.00	51.53	A16S
ATOM	12002	O2	U	A	580	152.033	97.034	-48.855	1.00	51.53	A16S
ATOM	12003	N3	U	A	580	152.623	98.013	-46.897	1.00	51.53	A16S
ATOM	12004	C4	U	A	580	153.039	99.056	-46.116	1.00	51.53	A16S
ATOM	12005	O4	U	A	580	153.206	98.875	-44.911	1.00	51.53	A16S

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ATOM	12006	C5	U	A	580	153.260	100.283	-46.826	1.00	51.53	A16S
ATOM	12007	C2*	U	A	580	150.851	99.538	-50.597	1.00	50.54	A16S
ATOM	12008	O2*	U	A	580	150.486	98.869	-51.791	1.00	50.54	A16S
ATOM	12009	C3*	U	A	580	150.751	101.050	-50.723	1.00	50.54	A16S
ATOM	12010	O3*	U	A	580	149.609	101.424	-51.480	1.00	50.54	A16S
ATOM	12011	P	G	A	581	148.345	102.059	-50.729	1.00	51.90	A16S
ATOM	12012	O1P	G	A	581	147.402	102.509	-51.789	1.00	55.34	A16S
ATOM	12013	O2P	G	A	581	148.840	103.032	-49.734	1.00	55.34	A16S
ATOM	12014	O5*	G	A	581	147.725	100.830	-49.928	1.00	51.90	A16S
ATOM	12015	C5*	G	A	581	147.089	99.747	-50.627	1.00	51.90	A16S
ATOM	12016	C4*	G	A	581	147.078	98.493	-49.771	1.00	51.90	A16S
ATOM	12017	O4*	G	A	581	148.415	98.290	-49.247	1.00	51.90	A16S
ATOM	12018	C1*	G	A	581	148.343	97.641	-47.998	1.00	51.90	A16S
ATOM	12019	N9	G	A	581	148.962	98.492	-46.997	1.00	55.34	A16S
ATOM	12020	C4	G	A	581	149.415	98.070	-45.782	1.00	55.34	A16S
ATOM	12021	N3	G	A	581	149.375	96.801	-45.331	1.00	55.34	A16S
ATOM	12022	C2	G	A	581	149.841	96.702	-44.108	1.00	55.34	A16S
ATOM	12023	N2	G	A	581	149.856	95.499	-43.505	1.00	55.34	A16S
ATOM	12024	N1	G	A	581	150.316	97.769	-43.388	1.00	55.34	A16S
ATOM	12025	C6	G	A	581	150.357	99.085	-43.838	1.00	55.34	A16S
ATOM	12026	O6	G	A	581	150.778	99.980	-43.102	1.00	55.34	A16S
ATOM	12027	C5	G	A	581	149.864	99.200	-45.145	1.00	55.34	A16S
ATOM	12028	N7	G	A	581	149.716	100.318	-45.955	1.00	55.34	A16S
ATOM	12029	C8	G	A	581	149.181	99.849	-47.049	1.00	55.34	A16S
ATOM	12030	C2*	G	A	581	146.874	97.397	-47.670	1.00	51.90	A16S
ATOM	12031	O2*	G	A	581	146.578	96.063	-48.007	1.00	51.90	A16S
ATOM	12032	C3*	G	A	581	146.176	98.439	-48.540	1.00	51.90	A16S
ATOM	12033	O3*	G	A	581	144.848	98.030	-48.889	1.00	51.90	A16S
ATOM	12034	P	U	A	582	143.702	97.940	-47.757	1.00	46.82	A16S
ATOM	12035	O1P	U	A	582	142.410	98.015	-48.462	1.00	43.47	A16S
ATOM	12036	O2P	U	A	582	143.996	98.898	-46.668	1.00	43.47	A16S
ATOM	12037	O5*	U	A	582	143.831	96.462	-47.173	1.00	46.82	A16S
ATOM	12038	C5*	U	A	582	143.541	95.310	-47.992	1.00	46.82	A16S
ATOM	12039	C4*	U	A	582	143.398	94.072	-47.133	1.00	46.82	A16S
ATOM	12040	O4*	U	A	582	144.691	93.633	-46.637	1.00	46.82	A16S
ATOM	12041	C1*	U	A	582	144.544	93.068	-45.341	1.00	46.82	A16S
ATOM	12042	N1	U	A	582	145.291	93.878	-44.362	1.00	43.47	A16S
ATOM	12043	C6	U	A	582	145.879	95.070	-44.695	1.00	43.47	A16S
ATOM	12044	C2	U	A	582	145.368	93.396	-43.066	1.00	43.47	A16S
ATOM	12045	O2	U	A	582	144.889	92.344	-42.733	1.00	43.47	A16S
ATOM	12046	N3	U	A	582	146.032	94.193	-42.177	1.00	43.47	A16S
ATOM	12047	C4	U	A	582	146.624	95.401	-42.438	1.00	43.47	A16S
ATOM	12048	O4	U	A	582	147.105	96.049	-41.505	1.00	43.47	A16S
ATOM	12049	C5	U	A	582	146.528	95.828	-43.803	1.00	43.47	A16S
ATOM	12050	C2*	U	A	582	143.057	93.081	-45.011	1.00	46.82	A16S
ATOM	12051	O2*	U	A	582	142.503	91.836	-45.381	1.00	46.82	A16S
ATOM	12052	C3*	U	A	582	142.573	94.236	-45.871	1.00	46.82	A16S
ATOM	12053	O3*	U	A	582	141.183	94.208	-46.099	1.00	46.82	A16S
ATOM	12054	P	A	A	583	140.243	95.206	-45.263	1.00	49.85	A16S
ATOM	12055	O1P	A	A	583	138.917	95.177	-45.931	1.00	42.77	A16S
ATOM	12056	O2P	A	A	583	140.969	96.515	-45.112	1.00	42.77	A16S
ATOM	12057	O5*	A	A	583	140.131	94.518	-43.826	1.00	49.85	A16S
ATOM	12058	C5*	A	A	583	139.592	93.199	-43.694	1.00	49.85	A16S
ATOM	12059	C4*	A	A	583	140.007	92.595	-42.379	1.00	49.85	A16S
ATOM	12060	O4*	A	A	583	141.452	92.608	-42.284	1.00	49.85	A16S
ATOM	12061	C1*	A	A	583	141.842	92.836	-40.934	1.00	49.85	A16S
ATOM	12062	N9	A	A	583	142.593	94.089	-40.872	1.00	42.77	A16S
ATOM	12063	C4	A	A	583	143.413	94.502	-39.849	1.00	42.77	A16S
ATOM	12064	N3	A	A	583	143.668	93.860	-38.698	1.00	42.77	A16S
ATOM	12065	C2	A	A	583	144.539	94.549	-37.962	1.00	42.77	A16S
ATOM	12066	N1	A	A	583	145.141	95.718	-38.229	1.00	42.77	A16S
ATOM	12067	C6	A	A	583	144.852	96.340	-39.398	1.00	42.77	A16S
ATOM	12068	N6	A	A	583	145.443	97.507	-39.681	1.00	42.77	A16S
ATOM	12069	C5	A	A	583	143.942	95.717	-40.258	1.00	42.77	A16S
ATOM	12070	N7	A	A	583	143.442	96.081	-41.498	1.00	42.77	A16S
ATOM	12071	C8	A	A	583	142.645	95.087	-41.820	1.00	42.77	A16S
ATOM	12072	C2*	A	A	583	140.574	92.908	-40.093	1.00	49.85	A16S
ATOM	12073	O2*	A	A	583	140.304	91.625	-39.570	1.00	49.85	A16S
ATOM	12074	C3*	A	A	583	139.555	93.339	-41.136	1.00	49.85	A16S
ATOM	12075	O3*	A	A	583	138.245	92.994	-40.751	1.00	49.85	A16S
ATOM	12076	P	G	A	584	137.255	94.149	-40.247	1.00	45.02	A16S
ATOM	12077	O1P	G	A	584	136.024	93.498	-39.705	1.00	42.14	A16S
ATOM	12078	O2P	G	A	584	137.140	95.130	-41.373	1.00	42.14	A16S
ATOM	12079	O5*	G	A	584	138.027	94.808	-39.016	1.00	45.02	A16S
ATOM	12080	C5*	G	A	584	138.140	94.089	-37.780	1.00	45.02	A16S
ATOM	12081	C4*	G	A	584	139.035	94.821	-36.815	1.00	45.02	A16S
ATOM	12082	O4*	G	A	584	140.353	94.966	-37.401	1.00	45.02	A16S

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ATOM	12083	C1*	G	A	584	140.938	96.181	-36.967	1.00	45.02	A16S
ATOM	12084	N9	G	A	584	141.169	97.027	-38.138	1.00	42.14	A16S
ATOM	12085	C4	G	A	584	142.003	98.123	-38.212	1.00	42.14	A16S
ATOM	12086	N3	G	A	584	142.765	98.605	-37.216	1.00	42.14	A16S
ATOM	12087	C2	G	A	584	143.441	99.669	-37.589	1.00	42.14	A16S
ATOM	12088	N2	G	A	584	144.250	100.277	-36.716	1.00	42.14	A16S
ATOM	12089	N1	G	A	584	143.374	100.220	-38.842	1.00	42.14	A16S
ATOM	12090	C6	G	A	584	142.588	99.742	-39.885	1.00	42.14	A16S
ATOM	12091	O6	G	A	584	142.577	100.327	-40.979	1.00	42.14	A16S
ATOM	12092	C5	G	A	584	141.870	98.599	-39.503	1.00	42.14	A16S
ATOM	12093	N7	G	A	584	140.985	97.818	-40.229	1.00	42.14	A16S
ATOM	12094	C8	G	A	584	140.593	96.899	-39.383	1.00	42.14	A16S
ATOM	12095	C2*	G	A	584	139.964	96.821	-35.982	1.00	45.02	A16S
ATOM	12096	O2*	G	A	584	140.294	96.386	-34.676	1.00	45.02	A16S
ATOM	12097	C3*	G	A	584	138.637	96.237	-36.441	1.00	45.02	A16S
ATOM	12098	O3*	G	A	584	137.659	96.277	-35.410	1.00	45.02	A16S
ATOM	12099	P	G	A	585	136.763	97.608	-35.209	1.00	41.39	A16S
ATOM	12100	O1P	G	A	585	135.851	97.278	-34.077	1.00	36.20	A16S
ATOM	12101	O2P	G	A	585	136.184	98.060	-36.510	1.00	36.20	A16S
ATOM	12102	O5*	G	A	585	137.805	98.714	-34.709	1.00	41.39	A16S
ATOM	12103	C5*	G	A	585	138.439	98.578	-33.418	1.00	41.39	A16S
ATOM	12104	C4*	G	A	585	139.300	99.777	-33.114	1.00	41.39	A16S
ATOM	12105	O4*	G	A	585	140.458	99.779	-33.967	1.00	41.39	A16S
ATOM	12106	C1*	G	A	585	140.742	101.099	-34.401	1.00	41.39	A16S
ATOM	12107	N9	G	A	585	140.487	101.144	-35.838	1.00	36.20	A16S
ATOM	12108	C4	G	A	585	140.959	102.062	-36.744	1.00	36.20	A16S
ATOM	12109	N3	G	A	585	141.762	103.108	-36.473	1.00	36.20	A16S
ATOM	12110	C2	G	A	585	142.053	103.811	-37.572	1.00	36.20	A16S
ATOM	12111	N2	G	A	585	142.852	104.899	-37.498	1.00	36.20	A16S
ATOM	12112	N1	G	A	585	141.587	103.504	-38.828	1.00	36.20	A16S
ATOM	12113	C6	G	A	585	140.764	102.425	-39.130	1.00	36.20	A16S
ATOM	12114	O6	G	A	585	140.409	102.224	-40.306	1.00	36.20	A16S
ATOM	12115	C5	G	A	585	140.444	101.667	-37.963	1.00	36.20	A16S
ATOM	12116	N7	G	A	585	139.663	100.527	-37.822	1.00	36.20	A16S
ATOM	12117	C8	G	A	585	139.716	100.255	-36.551	1.00	36.20	A16S
ATOM	12118	C2*	G	A	585	139.815	102.024	-33.626	1.00	41.39	A16S
ATOM	12119	O2*	G	A	585	140.419	102.387	-32.404	1.00	41.39	A16S
ATOM	12120	C3*	G	A	585	138.640	101.106	-33.375	1.00	41.39	A16S
ATOM	12121	O3*	G	A	585	137.882	101.527	-32.283	1.00	41.39	A16S
ATOM	12122	P	C	A	586	136.548	102.361	-32.557	1.00	40.01	A16S
ATOM	12123	O1P	C	A	586	135.968	102.645	-31.198	1.00	34.95	A16S
ATOM	12124	O2P	C	A	586	135.752	101.618	-33.585	1.00	34.95	A16S
ATOM	12125	O5*	C	A	586	137.065	103.706	-33.229	1.00	40.01	A16S
ATOM	12126	C5*	C	A	586	137.834	104.622	-32.463	1.00	40.01	A16S
ATOM	12127	C4*	C	A	586	138.376	105.716	-33.334	1.00	40.01	A16S
ATOM	12128	O4*	C	A	586	139.287	105.155	-34.315	1.00	40.01	A16S
ATOM	12129	C1*	C	A	586	139.365	106.032	-35.425	1.00	40.01	A16S
ATOM	12130	N1	C	A	586	138.988	105.345	-36.660	1.00	34.95	A16S
ATOM	12131	C6	C	A	586	138.343	104.146	-36.654	1.00	34.95	A16S
ATOM	12132	C2	C	A	586	139.278	105.987	-37.871	1.00	34.95	A16S
ATOM	12133	O2	C	A	586	139.906	107.058	-37.844	1.00	34.95	A16S
ATOM	12134	N3	C	A	586	138.871	105.435	-39.027	1.00	34.95	A16S
ATOM	12135	C4	C	A	586	138.202	104.286	-39.009	1.00	34.95	A16S
ATOM	12136	N4	C	A	586	137.780	103.800	-40.171	1.00	34.95	A16S
ATOM	12137	C5	C	A	586	137.929	103.588	-37.795	1.00	34.95	A16S
ATOM	12138	C2*	C	A	586	138.347	107.142	-35.210	1.00	40.01	A16S
ATOM	12139	O2*	C	A	586	139.066	108.270	-34.765	1.00	40.01	A16S
ATOM	12140	C3*	C	A	586	137.402	106.508	-34.191	1.00	40.01	A16S
ATOM	12141	O3*	C	A	586	136.622	107.475	-33.485	1.00	40.01	A16S
ATOM	12142	P	G	A	587	135.159	107.880	-34.050	1.00	42.35	A16S
ATOM	12143	O1P	G	A	587	134.621	108.878	-33.100	1.00	45.26	A16S
ATOM	12144	O2P	G	A	587	134.361	106.660	-34.360	1.00	45.26	A16S
ATOM	12145	O5*	G	A	587	135.451	108.654	-35.411	1.00	42.35	A16S
ATOM	12146	C5*	G	A	587	136.305	109.803	-35.400	1.00	42.35	A16S
ATOM	12147	C4*	G	A	587	136.186	110.564	-36.689	1.00	42.35	A16S
ATOM	12148	O4*	G	A	587	136.656	109.724	-37.776	1.00	42.35	A16S
ATOM	12149	C1*	G	A	587	135.704	109.709	-38.807	1.00	42.35	A16S
ATOM	12150	N9	G	A	587	135.632	108.366	-39.354	1.00	45.26	A16S
ATOM	12151	C4	G	A	587	135.531	108.031	-40.687	1.00	45.26	A16S
ATOM	12152	N3	G	A	587	135.543	108.894	-41.732	1.00	45.26	A16S
ATOM	12153	C2	G	A	587	135.374	108.268	-42.894	1.00	45.26	A16S
ATOM	12154	N2	G	A	587	135.337	108.966	-44.047	1.00	45.26	A16S
ATOM	12155	N1	G	A	587	135.218	106.913	-43.013	1.00	45.26	A16S
ATOM	12156	C6	G	A	587	135.198	106.014	-41.956	1.00	45.26	A16S
ATOM	12157	O6	G	A	587	135.030	104.820	-42.180	1.00	45.26	A16S
ATOM	12158	C5	G	A	587	135.378	106.663	-40.708	1.00	45.26	A16S
ATOM	12159	N7	G	A	587	135.427	106.142	-39.420	1.00	45.26	A16S

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ATOM	12160	C8	G	A	587	135.591	107.188	-38.652	1.00	45.26	A16S
ATOM	12161	C2*	G	A	587	134.364	110.076	-38.172	1.00	42.35	A16S
ATOM	12162	O2*	G	A	587	133.504	110.649	-39.155	1.00	42.35	A16S
ATOM	12163	C3*	G	A	587	134.785	111.041	-37.064	1.00	42.35	A16S
ATOM	12164	O3*	G	A	587	134.815	112.368	-37.576	1.00	42.35	A16S
ATOM	12165	P	G	A	588	133.480	113.258	-37.534	1.00	46.66	A16S
ATOM	12166	O1P	G	A	588	133.482	113.929	-36.212	1.00	54.77	A16S
ATOM	12167	O2P	G	A	588	132.304	112.445	-37.944	1.00	54.77	A16S
ATOM	12168	O5*	G	A	588	133.727	114.355	-38.657	1.00	46.66	A16S
ATOM	12169	C5*	G	A	588	134.795	115.305	-38.513	1.00	46.66	A16S
ATOM	12170	C4*	G	A	588	134.627	116.446	-39.490	1.00	46.66	A16S
ATOM	12171	O4*	G	A	588	134.824	115.980	-40.847	1.00	46.66	A16S
ATOM	12172	C1*	G	A	588	134.049	116.761	-41.721	1.00	46.66	A16S
ATOM	12173	N9	G	A	588	133.235	115.887	-42.547	1.00	54.77	A16S
ATOM	12174	C4	G	A	588	132.472	116.292	-43.604	1.00	54.77	A16S
ATOM	12175	N3	G	A	588	132.300	117.569	-44.004	1.00	54.77	A16S
ATOM	12176	C2	G	A	588	131.515	117.655	-45.058	1.00	54.77	A16S
ATOM	12177	N2	G	A	588	131.208	118.861	-45.559	1.00	54.77	A16S
ATOM	12178	N1	G	A	588	130.965	116.569	-45.691	1.00	54.77	A16S
ATOM	12179	C6	G	A	588	131.136	115.243	-45.301	1.00	54.77	A16S
ATOM	12180	O6	G	A	588	130.602	114.335	-45.954	1.00	54.77	A16S
ATOM	12181	C5	G	A	588	131.954	115.142	-44.146	1.00	54.77	A16S
ATOM	12182	N7	G	A	588	132.354	114.031	-43.416	1.00	54.77	A16S
ATOM	12183	C8	G	A	588	133.105	114.523	-42.471	1.00	54.77	A16S
ATOM	12184	C2*	G	A	588	133.250	117.763	-40.897	1.00	46.66	A16S
ATOM	12185	O2*	G	A	588	133.961	118.981	-40.909	1.00	46.66	A16S
ATOM	12186	C3*	G	A	588	133.268	117.123	-39.517	1.00	46.66	A16S
ATOM	12187	O3*	G	A	588	133.165	118.104	-38.493	1.00	46.66	A16S
ATOM	12188	P	C	A	589	131.753	118.350	-37.785	1.00	51.23	A16S
ATOM	12189	O1P	C	A	589	132.043	119.304	-36.675	1.00	43.78	A16S
ATOM	12190	O2P	C	A	589	131.116	117.036	-37.490	1.00	43.78	A16S
ATOM	12191	O5*	C	A	589	130.871	119.048	-38.916	1.00	51.23	A16S
ATOM	12192	C5*	C	A	589	131.039	120.451	-39.216	1.00	51.23	A16S
ATOM	12193	C4*	C	A	589	129.998	120.931	-40.209	1.00	51.23	A16S
ATOM	12194	O4*	C	A	589	130.289	120.413	-41.530	1.00	51.23	A16S
ATOM	12195	C1*	C	A	589	129.082	120.226	-42.239	1.00	51.23	A16S
ATOM	12196	N1	C	A	589	128.952	118.812	-42.582	1.00	43.78	A16S
ATOM	12197	C6	C	A	589	129.503	117.840	-41.801	1.00	43.78	A16S
ATOM	12198	C2	C	A	589	128.224	118.473	-43.718	1.00	43.78	A16S
ATOM	12199	O2	C	A	589	127.780	119.378	-44.427	1.00	43.78	A16S
ATOM	12200	N3	C	A	589	128.026	117.171	-44.023	1.00	43.78	A16S
ATOM	12201	C4	C	A	589	128.551	116.223	-43.247	1.00	43.78	A16S
ATOM	12202	N4	C	A	589	128.329	114.946	-43.579	1.00	43.78	A16S
ATOM	12203	C5	C	A	589	129.330	116.542	-42.094	1.00	43.78	A16S
ATOM	12204	C2*	C	A	589	127.927	120.655	-41.339	1.00	51.23	A16S
ATOM	12205	O2*	C	A	589	127.546	121.967	-41.692	1.00	51.23	A16S
ATOM	12206	C3*	C	A	589	128.554	120.529	-39.953	1.00	51.23	A16S
ATOM	12207	O3*	C	A	589	127.915	121.342	-38.967	1.00	51.23	A16S
ATOM	12208	P	C	A	590	126.648	120.756	-38.154	1.00	47.92	A16S
ATOM	12209	O1P	C	A	590	126.356	121.760	-37.091	1.00	59.17	A16S
ATOM	12210	O2P	C	A	590	126.904	119.345	-37.767	1.00	59.17	A16S
ATOM	12211	O5*	C	A	590	125.481	120.720	-39.248	1.00	47.92	A16S
ATOM	12212	C5*	C	A	590	124.985	121.939	-39.845	1.00	47.92	A16S
ATOM	12213	C4*	C	A	590	123.832	121.657	-40.798	1.00	47.92	A16S
ATOM	12214	O4*	C	A	590	124.311	121.019	-42.013	1.00	47.92	A16S
ATOM	12215	C1*	C	A	590	123.309	120.155	-42.523	1.00	47.92	A16S
ATOM	12216	N1	C	A	590	123.851	118.782	-42.599	1.00	59.17	A16S
ATOM	12217	C6	C	A	590	125.018	118.441	-41.969	1.00	59.17	A16S
ATOM	12218	C2	C	A	590	123.137	117.818	-43.319	1.00	59.17	A16S
ATOM	12219	O2	C	A	590	122.094	118.153	-43.896	1.00	59.17	A16S
ATOM	12220	N3	C	A	590	123.596	116.547	-43.366	1.00	59.17	A16S
ATOM	12221	C4	C	A	590	124.722	116.223	-42.733	1.00	59.17	A16S
ATOM	12222	N4	C	A	590	125.122	114.955	-42.788	1.00	59.17	A16S
ATOM	12223	C5	C	A	590	125.484	117.185	-42.009	1.00	59.17	A16S
ATOM	12224	C2*	C	A	590	122.089	120.248	-41.598	1.00	47.92	A16S
ATOM	12225	O2*	C	A	590	121.124	121.129	-42.138	1.00	47.92	A16S
ATOM	12226	C3*	C	A	590	122.711	120.755	-40.300	1.00	47.92	A16S
ATOM	12227	O3*	C	A	590	121.770	121.444	-39.481	1.00	47.92	A16S
ATOM	12228	P	U	A	591	120.958	120.633	-38.346	1.00	54.68	A16S
ATOM	12229	O1P	U	A	591	120.167	121.648	-37.601	1.00	66.84	A16S
ATOM	12230	O2P	U	A	591	121.913	119.781	-37.593	1.00	66.84	A16S
ATOM	12231	O5*	U	A	591	119.961	119.708	-39.195	1.00	54.68	A16S
ATOM	12232	C5*	U	A	591	118.975	120.328	-40.050	1.00	54.68	A16S
ATOM	12233	C4*	U	A	591	118.155	119.309	-40.826	1.00	54.68	A16S
ATOM	12234	O4*	U	A	591	118.922	118.716	-41.905	1.00	54.68	A16S
ATOM	12235	C1*	U	A	591	118.401	117.426	-42.196	1.00	54.68	A16S
ATOM	12236	N1	U	A	591	119.434	116.416	-41.921	1.00	66.84	A16S

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ATOM	12237	C6	U	A	591	120.512	116.687	-41.115	1.00	66.84	A16S
ATOM	12238	C2	U	A	591	119.269	115.167	-42.493	1.00	66.84	A16S
ATOM	12239	O2	U	A	591	118.337	114.891	-43.228	1.00	66.84	A16S
ATOM	12240	N3	U	A	591	120.234	114.253	-42.175	1.00	66.84	A16S
ATOM	12241	C4	U	A	591	121.327	114.458	-41.373	1.00	66.84	A16S
ATOM	12242	O4	U	A	591	122.111	113.533	-41.182	1.00	66.84	A16S
ATOM	12243	C5	U	A	591	121.437	115.778	-40.830	1.00	66.84	A16S
ATOM	12244	C2*	U	A	591	117.213	117.188	-41.272	1.00	54.68	A16S
ATOM	12245	O2*	U	A	591	116.022	117.546	-41.936	1.00	54.68	A16S
ATOM	12246	C3*	U	A	591	117.539	118.117	-40.112	1.00	54.68	A16S
ATOM	12247	O3*	U	A	591	116.357	118.423	-39.399	1.00	54.68	A16S
ATOM	12248	P	G	A	592	115.889	117.456	-38.202	1.00	58.71	A16S
ATOM	12249	O1P	G	A	592	114.783	118.173	-37.513	1.00	56.85	A16S
ATOM	12250	O2P	G	A	592	117.100	117.048	-37.428	1.00	56.85	A16S
ATOM	12251	O5*	G	A	592	115.283	116.175	-38.941	1.00	58.71	A16S
ATOM	12252	C5*	G	A	592	114.019	116.256	-39.623	1.00	58.71	A16S
ATOM	12253	C4*	G	A	592	113.686	114.944	-40.289	1.00	58.71	A16S
ATOM	12254	O4*	G	A	592	114.701	114.637	-41.279	1.00	58.71	A16S
ATOM	12255	C1*	G	A	592	114.871	113.230	-41.374	1.00	58.71	A16S
ATOM	12256	N9	G	A	592	116.222	112.890	-40.936	1.00	56.85	A16S
ATOM	12257	C4	G	A	592	116.828	111.664	-41.057	1.00	56.85	A16S
ATOM	12258	N3	G	A	592	116.311	110.590	-41.677	1.00	56.85	A16S
ATOM	12259	C2	G	A	592	117.111	109.544	-41.601	1.00	56.85	A16S
ATOM	12260	N2	G	A	592	116.759	108.401	-42.194	1.00	56.85	A16S
ATOM	12261	N1	G	A	592	118.315	109.543	-40.945	1.00	56.85	A16S
ATOM	12262	C6	G	A	592	118.865	110.635	-40.282	1.00	56.85	A16S
ATOM	12263	O6	G	A	592	119.951	110.517	-39.678	1.00	56.85	A16S
ATOM	12264	C5	G	A	592	118.028	111.780	-40.391	1.00	56.85	A16S
ATOM	12265	N7	G	A	592	118.203	113.070	-39.914	1.00	56.85	A16S
ATOM	12266	C8	G	A	592	117.113	113.695	-40.268	1.00	56.85	A16S
ATOM	12267	C2*	G	A	592	113.854	112.589	-40.428	1.00	58.71	A16S
ATOM	12268	O2*	G	A	592	112.679	112.244	-41.140	1.00	58.71	A16S
ATOM	12269	C3*	G	A	592	113.639	113.703	-39.412	1.00	58.71	A16S
ATOM	12270	O3*	G	A	592	112.407	113.548	-38.725	1.00	58.71	A16S
ATOM	12271	P	G	A	593	112.360	112.698	-37.354	1.00	52.99	A16S
ATOM	12272	O1P	G	A	593	110.994	112.910	-36.808	1.00	59.95	A16S
ATOM	12273	O2P	G	A	593	113.535	113.065	-36.527	1.00	59.95	A16S
ATOM	12274	O5*	G	A	593	112.509	111.170	-37.810	1.00	52.99	A16S
ATOM	12275	C5*	G	A	593	111.528	110.578	-38.688	1.00	52.99	A16S
ATOM	12276	C4*	G	A	593	111.850	109.125	-38.995	1.00	52.99	A16S
ATOM	12277	O4*	G	A	593	113.017	109.029	-39.854	1.00	52.99	A16S
ATOM	12278	C1*	G	A	593	113.730	107.829	-39.566	1.00	52.99	A16S
ATOM	12279	N9	G	A	593	115.049	108.185	-39.042	1.00	59.95	A16S
ATOM	12280	C4	G	A	593	116.105	107.333	-38.841	1.00	59.95	A16S
ATOM	12281	N3	G	A	593	116.125	106.021	-39.135	1.00	59.95	A16S
ATOM	12282	C2	G	A	593	117.281	105.469	-38.832	1.00	59.95	A16S
ATOM	12283	N2	G	A	593	117.481	104.174	-39.096	1.00	59.95	A16S
ATOM	12284	N1	G	A	593	118.332	106.148	-38.259	1.00	59.95	A16S
ATOM	12285	C6	G	A	593	118.335	107.502	-37.943	1.00	59.95	A16S
ATOM	12286	O6	G	A	593	119.347	108.028	-37.428	1.00	59.95	A16S
ATOM	12287	C5	G	A	593	117.102	108.109	-38.283	1.00	59.95	A16S
ATOM	12288	N7	G	A	593	116.688	109.427	-38.156	1.00	59.95	A16S
ATOM	12289	C8	G	A	593	115.470	109.427	-38.622	1.00	59.95	A16S
ATOM	12290	C2*	G	A	593	112.922	107.066	-38.517	1.00	52.99	A16S
ATOM	12291	O2*	G	A	593	112.078	106.143	-39.172	1.00	52.99	A16S
ATOM	12292	C3*	G	A	593	112.158	108.196	-37.833	1.00	52.99	A16S
ATOM	12293	O3*	G	A	593	110.998	107.727	-37.163	1.00	52.99	A16S
ATOM	12294	P	G	A	594	111.043	107.524	-35.568	1.00	58.24	A16S
ATOM	12295	O1P	G	A	594	109.664	107.185	-35.125	1.00	59.66	A16S
ATOM	12296	O2P	G	A	594	111.735	108.702	-34.973	1.00	59.66	A16S
ATOM	12297	O5*	G	A	594	111.977	106.242	-35.369	1.00	58.24	A16S
ATOM	12298	C5*	G	A	594	111.629	104.971	-35.966	1.00	58.24	A16S
ATOM	12299	C4*	G	A	594	112.787	103.992	-35.881	1.00	58.24	A16S
ATOM	12300	O4*	G	A	594	113.944	104.522	-36.580	1.00	58.24	A16S
ATOM	12301	C1*	G	A	594	115.132	104.061	-35.955	1.00	58.24	A16S
ATOM	12302	N9	G	A	594	115.931	105.207	-35.531	1.00	59.66	A16S
ATOM	12303	C4	G	A	594	117.263	105.178	-35.211	1.00	59.66	A16S
ATOM	12304	N3	G	A	594	118.063	104.095	-35.274	1.00	59.66	A16S
ATOM	12305	C2	G	A	594	119.293	104.374	-34.890	1.00	59.66	A16S
ATOM	12306	N2	G	A	594	120.223	103.411	-34.912	1.00	59.66	A16S
ATOM	12307	N1	G	A	594	119.700	105.618	-34.460	1.00	59.66	A16S
ATOM	12308	C6	G	A	594	118.885	106.740	-34.375	1.00	59.66	A16S
ATOM	12309	O6	G	A	594	119.342	107.804	-33.951	1.00	59.66	A16S
ATOM	12310	C5	G	A	594	117.573	106.460	-34.806	1.00	59.66	A16S
ATOM	12311	N7	G	A	594	116.466	107.287	-34.900	1.00	59.66	A16S
ATOM	12312	C8	G	A	594	115.517	106.504	-35.338	1.00	59.66	A16S
ATOM	12313	C2*	G	A	594	114.730	103.188	-34.767	1.00	58.24	A16S

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ATOM	12314	O2*	G	A	594	114.779	101.834	-35.152	1.00	58.24	A16S
ATOM	12315	C3*	G	A	594	113.307	103.658	-34.494	1.00	58.24	A16S
ATOM	12316	O3*	G	A	594	112.549	102.624	-33.897	1.00	58.24	A16S
ATOM	12317	P	G	A	595	112.197	102.710	-32.336	1.00	64.42	A16S
ATOM	12318	O1P	G	A	595	111.434	101.482	-31.970	1.00	54.15	A16S
ATOM	12319	O2P	G	A	595	111.623	104.058	-32.072	1.00	54.15	A16S
ATOM	12320	O5*	G	A	595	113.605	102.647	-31.601	1.00	64.42	A16S
ATOM	12321	C5*	G	A	595	114.434	101.474	-31.688	1.00	64.42	A16S
ATOM	12322	C4*	G	A	595	115.747	101.729	-30.996	1.00	64.42	A16S
ATOM	12323	O4*	G	A	595	116.281	102.959	-31.542	1.00	64.42	A16S
ATOM	12324	C1*	G	A	595	116.483	103.900	-30.513	1.00	64.42	A16S
ATOM	12325	N9	G	A	595	115.979	105.185	-30.980	1.00	54.15	A16S
ATOM	12326	C4	G	A	595	116.658	106.375	-31.005	1.00	54.15	A16S
ATOM	12327	N3	G	A	595	117.947	106.559	-30.661	1.00	54.15	A16S
ATOM	12328	C2	G	A	595	118.309	107.820	-30.776	1.00	54.15	A16S
ATOM	12329	N2	G	A	595	119.571	108.176	-30.508	1.00	54.15	A16S
ATOM	12330	N1	G	A	595	117.464	108.822	-31.169	1.00	54.15	A16S
ATOM	12331	C6	G	A	595	116.133	108.650	-31.521	1.00	54.15	A16S
ATOM	12332	O6	G	A	595	115.450	109.624	-31.852	1.00	54.15	A16S
ATOM	12333	C5	G	A	595	115.745	107.305	-31.433	1.00	54.15	A16S
ATOM	12334	N7	G	A	595	114.530	106.707	-31.721	1.00	54.15	A16S
ATOM	12335	C8	G	A	595	114.716	105.449	-31.444	1.00	54.15	A16S
ATOM	12336	C2*	G	A	595	115.697	103.423	-29.295	1.00	64.42	A16S
ATOM	12337	O2*	G	A	595	116.381	103.788	-28.112	1.00	64.42	A16S
ATOM	12338	C3*	G	A	595	115.677	101.915	-29.482	1.00	64.42	A16S
ATOM	12339	O3*	G	A	595	116.843	101.398	-28.889	1.00	64.42	A16S
ATOM	12340	P	C	A	596	116.935	99.837	-28.546	1.00	55.95	A16S
ATOM	12341	O1P	C	A	596	115.988	99.086	-29.432	1.00	65.75	A16S
ATOM	12342	O2P	C	A	596	116.852	99.688	-27.066	1.00	65.75	A16S
ATOM	12343	O5*	C	A	596	118.415	99.479	-29.006	1.00	55.95	A16S
ATOM	12344	C5*	C	A	596	118.844	98.124	-29.181	1.00	55.95	A16S
ATOM	12345	C4*	C	A	596	120.329	98.105	-29.380	1.00	55.95	A16S
ATOM	12346	O4*	C	A	596	120.639	98.656	-30.685	1.00	55.95	A16S
ATOM	12347	C1*	C	A	596	121.783	99.485	-30.595	1.00	55.95	A16S
ATOM	12348	N1	C	A	596	121.401	100.854	-30.981	1.00	65.75	A16S
ATOM	12349	C6	C	A	596	120.116	101.164	-31.328	1.00	65.75	A16S
ATOM	12350	C2	C	A	596	122.380	101.853	-30.945	1.00	65.75	A16S
ATOM	12351	O2	C	A	596	123.552	101.533	-30.693	1.00	65.75	A16S
ATOM	12352	N3	C	A	596	122.027	103.135	-31.187	1.00	65.75	A16S
ATOM	12353	C4	C	A	596	120.761	103.431	-31.472	1.00	65.75	A16S
ATOM	12354	N4	C	A	596	120.450	104.709	-31.648	1.00	65.75	A16S
ATOM	12355	C5	C	A	596	119.756	102.428	-31.575	1.00	65.75	A16S
ATOM	12356	C2*	C	A	596	122.283	99.441	-29.145	1.00	55.95	A16S
ATOM	12357	O2*	C	A	596	123.362	98.550	-28.999	1.00	55.95	A16S
ATOM	12358	C3*	C	A	596	121.036	99.013	-28.394	1.00	55.95	A16S
ATOM	12359	O3*	C	A	596	121.296	98.367	-27.159	1.00	55.95	A16S
ATOM	12360	P	G	A	597	121.165	99.205	-25.789	1.00	45.89	A16S
ATOM	12361	O1P	G	A	597	120.980	98.233	-24.667	1.00	52.81	A16S
ATOM	12362	O2P	G	A	597	120.153	100.292	-25.994	1.00	52.81	A16S
ATOM	12363	O5*	G	A	597	122.595	99.909	-25.637	1.00	45.89	A16S
ATOM	12364	C5*	G	A	597	123.818	99.169	-25.876	1.00	45.89	A16S
ATOM	12365	C4*	G	A	597	124.967	100.108	-26.141	1.00	45.89	A16S
ATOM	12366	O4*	G	A	597	124.721	100.841	-27.365	1.00	45.89	A16S
ATOM	12367	C1*	G	A	597	125.206	102.169	-27.229	1.00	45.89	A16S
ATOM	12368	N9	G	A	597	124.098	103.111	-27.404	1.00	52.81	A16S
ATOM	12369	C4	G	A	597	124.185	104.489	-27.343	1.00	52.81	A16S
ATOM	12370	N3	G	A	597	125.316	105.204	-27.184	1.00	52.81	A16S
ATOM	12371	C2	G	A	597	125.079	106.498	-27.126	1.00	52.81	A16S
ATOM	12372	N2	G	A	597	126.093	107.350	-26.994	1.00	52.81	A16S
ATOM	12373	N1	G	A	597	123.834	107.054	-27.198	1.00	52.81	A16S
ATOM	12374	C6	G	A	597	122.651	106.347	-27.359	1.00	52.81	A16S
ATOM	12375	O6	G	A	597	121.572	106.957	-27.398	1.00	52.81	A16S
ATOM	12376	C5	G	A	597	122.891	104.943	-27.450	1.00	52.81	A16S
ATOM	12377	N7	G	A	597	122.009	103.883	-27.633	1.00	52.81	A16S
ATOM	12378	C8	G	A	597	122.769	102.819	-27.610	1.00	52.81	A16S
ATOM	12379	C2*	G	A	597	125.844	102.290	-25.842	1.00	45.89	A16S
ATOM	12380	O2*	G	A	597	127.226	102.066	-25.930	1.00	45.89	A16S
ATOM	12381	C3*	G	A	597	125.167	101.170	-25.083	1.00	45.89	A16S
ATOM	12382	O3*	G	A	597	126.006	100.710	-24.050	1.00	45.89	A16S
ATOM	12383	P	U	A	598	125.586	100.990	-22.529	1.00	46.68	A16S
ATOM	12384	O1P	U	A	598	124.274	100.296	-22.371	1.00	52.58	A16S
ATOM	12385	O2P	U	A	598	126.707	100.686	-21.597	1.00	52.58	A16S
ATOM	12386	O5*	U	A	598	125.313	102.558	-22.482	1.00	46.68	A16S
ATOM	12387	C5*	U	A	598	126.382	103.498	-22.684	1.00	46.68	A16S
ATOM	12388	C4*	U	A	598	125.847	104.910	-22.663	1.00	46.68	A16S
ATOM	12389	O4*	U	A	598	125.106	105.188	-23.875	1.00	46.68	A16S
ATOM	12390	C1*	U	A	598	124.037	106.070	-23.593	1.00	46.68	A16S

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ATOM	12391	N1	U	A	598	122.781	105.419	-23.997	1.00	52.58	A16S
ATOM	12392	C6	U	A	598	122.755	104.098	-24.369	1.00	52.58	A16S
ATOM	12393	C2	U	A	598	121.616	106.172	-23.977	1.00	52.58	A16S
ATOM	12394	O2	U	A	598	121.595	107.359	-23.675	1.00	52.58	A16S
ATOM	12395	N3	U	A	598	120.478	105.483	-24.325	1.00	52.58	A16S
ATOM	12396	C4	U	A	598	120.386	104.152	-24.691	1.00	52.58	A16S
ATOM	12397	O4	U	A	598	119.283	103.654	-24.932	1.00	52.58	A16S
ATOM	12398	C5	U	A	598	121.629	103.459	-24.707	1.00	52.58	A16S
ATOM	12399	C2*	U	A	598	124.099	106.396	-22.100	1.00	46.68	A16S
ATOM	12400	O2*	U	A	598	124.833	107.581	-21.914	1.00	46.68	A16S
ATOM	12401	C3*	U	A	598	124.872	105.216	-21.551	1.00	46.68	A16S
ATOM	12402	O3*	U	A	598	125.553	105.564	-20.371	1.00	46.68	A16S
ATOM	12403	P	C	A	599	124.913	105.165	-18.960	1.00	58.10	A16S
ATOM	12404	O1P	C	A	599	124.276	103.839	-19.195	1.00	53.79	A16S
ATOM	12405	O2P	C	A	599	125.914	105.324	-17.864	1.00	53.79	A16S
ATOM	12406	O5*	C	A	599	123.777	106.263	-18.752	1.00	58.10	A16S
ATOM	12407	C5*	C	A	599	124.129	107.640	-18.520	1.00	58.10	A16S
ATOM	12408	C4*	C	A	599	122.892	108.507	-18.475	1.00	58.10	A16S
ATOM	12409	O4*	C	A	599	122.274	108.580	-19.783	1.00	58.10	A16S
ATOM	12410	C1*	C	A	599	120.873	108.735	-19.635	1.00	58.10	A16S
ATOM	12411	N1	C	A	599	120.202	107.594	-20.256	1.00	53.79	A16S
ATOM	12412	C6	C	A	599	120.824	106.385	-20.375	1.00	53.79	A16S
ATOM	12413	C2	C	A	599	118.892	107.762	-20.710	1.00	53.79	A16S
ATOM	12414	O2	C	A	599	118.362	108.894	-20.627	1.00	53.79	A16S
ATOM	12415	N3	C	A	599	118.234	106.699	-21.233	1.00	53.79	A16S
ATOM	12416	C4	C	A	599	118.846	105.518	-21.322	1.00	53.79	A16S
ATOM	12417	N4	C	A	599	118.157	104.496	-21.817	1.00	53.79	A16S
ATOM	12418	C5	C	A	599	120.189	105.332	-20.899	1.00	53.79	A16S
ATOM	12419	C2*	C	A	599	120.559	108.769	-18.146	1.00	58.10	A16S
ATOM	12420	O2*	C	A	599	120.474	110.122	-17.742	1.00	58.10	A16S
ATOM	12421	C3*	C	A	599	121.765	108.043	-17.572	1.00	58.10	A16S
ATOM	12422	O3*	C	A	599	121.993	108.376	-16.222	1.00	58.10	A16S
ATOM	12423	P	C	A	600	121.274	107.517	-15.084	1.00	52.67	A16S
ATOM	12424	O1P	C	A	600	121.407	106.080	-15.451	1.00	43.02	A16S
ATOM	12425	O2P	C	A	600	121.786	108.002	-13.758	1.00	43.02	A16S
ATOM	12426	O5*	C	A	600	119.737	107.895	-15.284	1.00	52.67	A16S
ATOM	12427	C5*	C	A	600	119.286	109.260	-15.108	1.00	52.67	A16S
ATOM	12428	C4*	C	A	600	117.776	109.344	-15.189	1.00	52.67	A16S
ATOM	12429	O4*	C	A	600	117.336	109.040	-16.534	1.00	52.67	A16S
ATOM	12430	C1*	C	A	600	116.067	108.426	-16.486	1.00	52.67	A16S
ATOM	12431	N1	C	A	600	116.133	107.143	-17.185	1.00	43.02	A16S
ATOM	12432	C6	C	A	600	117.291	106.416	-17.242	1.00	43.02	A16S
ATOM	12433	C2	C	A	600	114.975	106.673	-17.801	1.00	43.02	A16S
ATOM	12434	O2	C	A	600	113.934	107.343	-17.703	1.00	43.02	A16S
ATOM	12435	N3	C	A	600	115.011	105.505	-18.480	1.00	43.02	A16S
ATOM	12436	C4	C	A	600	116.145	104.812	-18.548	1.00	43.02	A16S
ATOM	12437	N4	C	A	600	116.137	103.687	-19.247	1.00	43.02	A16S
ATOM	12438	C5	C	A	600	117.340	105.253	-17.906	1.00	43.02	A16S
ATOM	12439	C2*	C	A	600	115.657	108.281	-15.025	1.00	52.67	A16S
ATOM	12440	O2*	C	A	600	114.792	109.346	-14.713	1.00	52.67	A16S
ATOM	12441	C3*	C	A	600	116.995	108.385	-14.310	1.00	52.67	A16S
ATOM	12442	O3*	C	A	600	116.849	108.892	-12.995	1.00	52.67	A16S
ATOM	12443	P	C	A	601	116.685	107.866	-11.772	1.00	54.05	A16S
ATOM	12444	O1P	C	A	601	116.855	108.674	-10.530	1.00	66.13	A16S
ATOM	12445	O2P	C	A	601	117.562	106.686	-12.003	1.00	66.13	A16S
ATOM	12446	O5*	C	A	601	115.173	107.372	-11.892	1.00	54.05	A16S
ATOM	12447	C5*	C	A	601	114.092	108.316	-11.802	1.00	54.05	A16S
ATOM	12448	C4*	C	A	601	112.770	107.659	-12.129	1.00	54.05	A16S
ATOM	12449	O4*	C	A	601	112.676	107.345	-13.540	1.00	54.05	A16S
ATOM	12450	C1*	C	A	601	111.887	106.183	-13.714	1.00	54.05	A16S
ATOM	12451	N1	C	A	601	112.683	105.173	-14.416	1.00	66.13	A16S
ATOM	12452	C6	C	A	601	114.035	105.103	-14.248	1.00	66.13	A16S
ATOM	12453	C2	C	A	601	112.032	104.280	-15.261	1.00	66.13	A16S
ATOM	12454	O2	C	A	601	110.808	104.361	-15.384	1.00	66.13	A16S
ATOM	12455	N3	C	A	601	112.750	103.347	-15.922	1.00	66.13	A16S
ATOM	12456	C4	C	A	601	114.072	103.287	-15.756	1.00	66.13	A16S
ATOM	12457	N4	C	A	601	114.751	102.350	-16.429	1.00	66.13	A16S
ATOM	12458	C5	C	A	601	114.762	104.184	-14.892	1.00	66.13	A16S
ATOM	12459	C2*	C	A	601	111.439	105.704	-12.337	1.00	54.05	A16S
ATOM	12460	O2*	C	A	601	110.133	106.177	-12.094	1.00	54.05	A16S
ATOM	12461	C3*	C	A	601	112.481	106.347	-11.432	1.00	54.05	A16S
ATOM	12462	O3*	C	A	601	111.992	106.550	-10.120	1.00	54.05	A16S
ATOM	12463	P	A	A	602	112.148	105.373	-9.046	1.00	51.34	A16S
ATOM	12464	O1P	A	A	602	111.614	105.904	-7.769	1.00	77.75	A16S
ATOM	12465	O2P	A	A	602	113.543	104.869	-9.101	1.00	77.75	A16S
ATOM	12466	O5*	A	A	602	111.171	104.238	-9.600	1.00	51.34	A16S
ATOM	12467	C5*	A	A	602	109.760	104.490	-9.674	1.00	51.34	A16S

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ATOM	12468	C4*	A	A	602	109.021	103.318	-10.280	1.00	51.34	A16S
ATOM	12469	O4*	A	A	602	109.328	103.194	-11.691	1.00	51.34	A16S
ATOM	12470	C1*	A	A	602	109.208	101.837	-12.079	1.00	51.34	A16S
ATOM	12471	N9	A	A	602	110.494	101.394	-12.623	1.00	77.75	A16S
ATOM	12472	C4	A	A	602	110.697	100.267	-13.381	1.00	77.75	A16S
ATOM	12473	N3	A	A	602	109.770	99.397	-13.808	1.00	77.75	A16S
ATOM	12474	C2	A	A	602	110.338	98.406	-14.482	1.00	77.75	A16S
ATOM	12475	N1	A	A	602	111.627	98.198	-14.750	1.00	77.75	A16S
ATOM	12476	C6	A	A	602	112.531	99.091	-14.304	1.00	77.75	A16S
ATOM	12477	N6	A	A	602	113.819	98.869	-14.552	1.00	77.75	A16S
ATOM	12478	C5	A	A	602	112.059	100.195	-13.593	1.00	77.75	A16S
ATOM	12479	N7	A	A	602	112.705	101.279	-13.020	1.00	77.75	A16S
ATOM	12480	C8	A	A	602	111.735	101.965	-12.464	1.00	77.75	A16S
ATOM	12481	C2*	A	A	602	108.802	101.029	-10.840	1.00	51.34	A16S
ATOM	12482	O2*	A	A	602	107.403	100.818	-10.833	1.00	51.34	A16S
ATOM	12483	C3*	A	A	602	109.268	101.935	-9.708	1.00	51.34	A16S
ATOM	12484	O3*	A	A	602	108.528	101.709	-8.519	1.00	51.34	A16S
ATOM	12485	P	U	A	603	109.153	100.776	-7.370	1.00	55.25	A16S
ATOM	12486	O1P	U	A	603	108.255	100.835	-6.185	1.00	62.03	A16S
ATOM	12487	O2P	U	A	603	110.581	101.144	-7.215	1.00	62.03	A16S
ATOM	12488	O5*	U	A	603	109.083	99.311	-8.004	1.00	55.25	A16S
ATOM	12489	C5*	U	A	603	107.812	98.705	-8.336	1.00	55.25	A16S
ATOM	12490	C4*	U	A	603	108.011	97.393	-9.083	1.00	55.25	A16S
ATOM	12491	O4*	U	A	603	108.526	97.643	-10.422	1.00	55.25	A16S
ATOM	12492	C1*	U	A	603	109.422	96.605	-10.795	1.00	55.25	A16S
ATOM	12493	N1	U	A	603	110.767	97.184	-10.968	1.00	62.03	A16S
ATOM	12494	C6	U	A	603	111.214	98.225	-10.181	1.00	62.03	A16S
ATOM	12495	C2	U	A	603	111.588	96.627	-11.929	1.00	62.03	A16S
ATOM	12496	O2	U	A	603	111.228	95.727	-12.664	1.00	62.03	A16S
ATOM	12497	N3	U	A	603	112.852	97.159	-11.994	1.00	62.03	A16S
ATOM	12498	C4	U	A	603	113.371	98.167	-11.212	1.00	62.03	A16S
ATOM	12499	O4	U	A	603	114.569	98.449	-11.306	1.00	62.03	A16S
ATOM	12500	C5	U	A	603	112.452	98.715	-10.266	1.00	62.03	A16S
ATOM	12501	C2*	U	A	603	109.428	95.570	-9.669	1.00	55.25	A16S
ATOM	12502	O2*	U	A	603	108.533	94.518	-9.944	1.00	55.25	A16S
ATOM	12503	C3*	U	A	603	109.005	96.416	-8.477	1.00	55.25	A16S
ATOM	12504	O3*	U	A	603	108.475	95.637	-7.423	1.00	55.25	A16S
ATOM	12505	P	G	A	604	109.477	95.042	-6.317	1.00	51.81	A16S
ATOM	12506	O1P	G	A	604	108.663	94.482	-5.207	1.00	55.87	A16S
ATOM	12507	O2P	G	A	604	110.503	96.082	-6.018	1.00	55.87	A16S
ATOM	12508	O5*	G	A	604	110.148	93.813	-7.077	1.00	51.81	A16S
ATOM	12509	C5*	G	A	604	109.316	92.812	-7.674	1.00	51.81	A16S
ATOM	12510	C4*	G	A	604	110.135	91.851	-8.491	1.00	51.81	A16S
ATOM	12511	O4*	G	A	604	110.632	92.485	-9.700	1.00	51.81	A16S
ATOM	12512	C1*	G	A	604	111.864	91.877	-10.079	1.00	51.81	A16S
ATOM	12513	N9	G	A	604	112.927	92.885	-10.108	1.00	55.87	A16S
ATOM	12514	C4	G	A	604	114.141	92.780	-10.762	1.00	55.87	A16S
ATOM	12515	N3	G	A	604	114.558	91.733	-11.503	1.00	55.87	A16S
ATOM	12516	C2	G	A	604	115.771	91.919	-11.987	1.00	55.87	A16S
ATOM	12517	N2	G	A	604	116.337	90.975	-12.734	1.00	55.87	A16S
ATOM	12518	N1	G	A	604	116.516	93.043	-11.776	1.00	55.87	A16S
ATOM	12519	C6	G	A	604	116.112	94.142	-11.027	1.00	55.87	A16S
ATOM	12520	O6	G	A	604	116.866	95.126	-10.912	1.00	55.87	A16S
ATOM	12521	C5	G	A	604	114.811	93.949	-10.482	1.00	55.87	A16S
ATOM	12522	N7	G	A	604	114.044	94.773	-9.666	1.00	55.87	A16S
ATOM	12523	C8	G	A	604	112.936	94.106	-9.477	1.00	55.87	A16S
ATOM	12524	C2*	G	A	604	112.174	90.799	-9.040	1.00	51.81	A16S
ATOM	12525	O2*	G	A	604	111.713	89.552	-9.516	1.00	51.81	A16S
ATOM	12526	C3*	G	A	604	111.381	91.291	-7.838	1.00	51.81	A16S
ATOM	12527	O3*	G	A	604	111.114	90.249	-6.930	1.00	51.81	A16S
ATOM	12528	P	U	A	605	112.044	90.092	-5.632	1.00	57.15	A16S
ATOM	12529	O1P	U	A	605	111.516	88.943	-4.847	1.00	58.47	A16S
ATOM	12530	O2P	U	A	605	112.189	91.433	-4.988	1.00	58.47	A16S
ATOM	12531	O5*	U	A	605	113.473	89.686	-6.213	1.00	57.15	A16S
ATOM	12532	C5*	U	A	605	113.646	88.476	-6.970	1.00	57.15	A16S
ATOM	12533	C4*	U	A	605	115.035	88.412	-7.564	1.00	57.15	A16S
ATOM	12534	O4*	U	A	605	115.201	89.448	-8.565	1.00	57.15	A16S
ATOM	12535	C1*	U	A	605	116.562	89.840	-8.610	1.00	57.15	A16S
ATOM	12536	N1	U	A	605	116.667	91.274	-8.314	1.00	58.47	A16S
ATOM	12537	C6	U	A	605	115.777	91.920	-7.493	1.00	58.47	A16S
ATOM	12538	C2	U	A	605	117.708	91.950	-8.892	1.00	58.47	A16S
ATOM	12539	O2	U	A	605	118.513	91.405	-9.617	1.00	58.47	A16S
ATOM	12540	N3	U	A	605	117.774	93.291	-8.594	1.00	58.47	A16S
ATOM	12541	C4	U	A	605	116.911	94.010	-7.797	1.00	58.47	A16S
ATOM	12542	O4	U	A	605	117.022	95.239	-7.731	1.00	58.47	A16S
ATOM	12543	C5	U	A	605	115.862	93.232	-7.219	1.00	58.47	A16S
ATOM	12544	C2*	U	A	605	117.326	89.013	-7.579	1.00	57.15	A16S

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ATOM	12545	O2*	U	A	605	117.924	87.897	-8.215	1.00	57.15	A16S
ATOM	12546	C3*	U	A	605	116.213	88.615	-6.621	1.00	57.15	A16S
ATOM	12547	O3*	U	A	605	116.569	87.435	-5.928	1.00	57.15	A16S
ATOM	12548	P	G	A	606	117.100	87.535	-4.418	1.00	56.68	A16S
ATOM	12549	O1P	G	A	606	117.317	86.134	-3.976	1.00	91.26	A16S
ATOM	12550	O2P	G	A	606	116.176	88.417	-3.660	1.00	91.26	A16S
ATOM	12551	O5*	G	A	606	118.528	88.239	-4.515	1.00	56.68	A16S
ATOM	12552	C5*	G	A	606	119.642	87.555	-5.130	1.00	56.68	A16S
ATOM	12553	C4*	G	A	606	120.782	88.513	-5.408	1.00	56.68	A16S
ATOM	12554	O4*	G	A	606	120.363	89.555	-6.329	1.00	56.68	A16S
ATOM	12555	C1*	G	A	606	120.972	90.782	-5.970	1.00	56.68	A16S
ATOM	12556	N9	G	A	606	119.918	91.728	-5.613	1.00	91.26	A16S
ATOM	12557	C4	G	A	606	120.021	93.096	-5.585	1.00	91.26	A16S
ATOM	12558	N3	G	A	606	121.124	93.815	-5.881	1.00	91.26	A16S
ATOM	12559	C2	G	A	606	120.908	95.117	-5.781	1.00	91.26	A16S
ATOM	12560	N2	G	A	606	121.898	95.985	-6.050	1.00	91.26	A16S
ATOM	12561	N1	G	A	606	119.704	95.665	-5.413	1.00	91.26	A16S
ATOM	12562	C6	G	A	606	118.554	94.941	-5.104	1.00	91.26	A16S
ATOM	12563	O6	G	A	606	117.510	95.535	-4.792	1.00	91.26	A16S
ATOM	12564	C5	G	A	606	118.774	93.549	-5.209	1.00	91.26	A16S
ATOM	12565	N7	G	A	606	117.907	92.489	-4.998	1.00	91.26	A16S
ATOM	12566	C8	G	A	606	118.627	91.431	-5.245	1.00	91.26	A16S
ATOM	12567	C2*	G	A	606	121.934	90.496	-4.820	1.00	56.68	A16S
ATOM	12568	O2*	G	A	606	123.201	90.225	-5.382	1.00	56.68	A16S
ATOM	12569	C3*	G	A	606	121.323	89.246	-4.201	1.00	56.68	A16S
ATOM	12570	O3*	G	A	606	122.317	88.452	-3.591	1.00	56.68	A16S
ATOM	12571	P	A	A	607	122.394	88.368	-1.993	1.00	66.86	A16S
ATOM	12572	O1P	A	A	607	121.956	89.664	-1.401	1.00	76.05	A16S
ATOM	12573	O2P	A	A	607	123.736	87.834	-1.655	1.00	76.05	A16S
ATOM	12574	O5*	A	A	607	121.300	87.266	-1.636	1.00	66.86	A16S
ATOM	12575	C5*	A	A	607	119.896	87.590	-1.588	1.00	66.86	A16S
ATOM	12576	C4*	A	A	607	119.191	86.693	-0.592	1.00	66.86	A16S
ATOM	12577	O4*	A	A	607	119.352	85.315	-1.019	1.00	66.86	A16S
ATOM	12578	C1*	A	A	607	119.563	84.482	0.110	1.00	66.86	A16S
ATOM	12579	N9	A	A	607	120.903	83.896	-0.006	1.00	76.05	A16S
ATOM	12580	C4	A	A	607	121.443	82.913	0.791	1.00	76.05	A16S
ATOM	12581	N3	A	A	607	120.859	82.291	1.831	1.00	76.05	A16S
ATOM	12582	C2	A	A	607	121.686	81.396	2.361	1.00	76.05	A16S
ATOM	12583	N1	A	A	607	122.936	81.083	2.000	1.00	76.05	A16S
ATOM	12584	C6	A	A	607	123.491	81.736	0.958	1.00	76.05	A16S
ATOM	12585	N6	A	A	607	124.740	81.440	0.608	1.00	76.05	A16S
ATOM	12586	C5	A	A	607	122.721	82.696	0.307	1.00	76.05	A16S
ATOM	12587	N7	A	A	607	122.988	83.521	-0.774	1.00	76.05	A16S
ATOM	12588	C8	A	A	607	121.883	84.211	-0.922	1.00	76.05	A16S
ATOM	12589	C2*	A	A	607	119.403	85.348	1.360	1.00	66.86	A16S
ATOM	12590	O2*	A	A	607	118.075	85.311	1.840	1.00	66.86	A16S
ATOM	12591	C3*	A	A	607	119.751	86.725	0.823	1.00	66.86	A16S
ATOM	12592	O3*	A	A	607	119.168	87.729	1.634	1.00	66.86	A16S
ATOM	12593	P	A	A	608	119.947	88.231	2.945	1.00	54.67	A16S
ATOM	12594	O1P	A	A	608	118.967	88.953	3.788	1.00	51.05	A16S
ATOM	12595	O2P	A	A	608	121.237	88.917	2.528	1.00	51.05	A16S
ATOM	12596	O5*	A	A	608	120.317	86.888	3.722	1.00	54.67	A16S
ATOM	12597	C5*	A	A	608	119.368	86.225	4.578	1.00	54.67	A16S
ATOM	12598	C4*	A	A	608	120.075	85.214	5.457	1.00	54.67	A16S
ATOM	12599	O4*	A	A	608	120.644	84.161	4.633	1.00	54.67	A16S
ATOM	12600	C1*	A	A	608	121.888	83.750	5.176	1.00	54.67	A16S
ATOM	12601	N9	A	A	608	122.932	84.020	4.192	1.00	51.05	A16S
ATOM	12602	C4	A	A	608	124.244	83.633	4.272	1.00	51.05	A16S
ATOM	12603	N3	A	A	608	124.823	82.941	5.258	1.00	51.05	A16S
ATOM	12604	C2	A	A	608	126.114	82.754	4.997	1.00	51.05	A16S
ATOM	12605	N1	A	A	608	126.835	83.156	3.944	1.00	51.05	A16S
ATOM	12606	C6	A	A	608	126.219	83.853	2.973	1.00	51.05	A16S
ATOM	12607	N6	A	A	608	126.940	84.259	1.926	1.00	51.05	A16S
ATOM	12608	C5	A	A	608	124.851	84.110	3.128	1.00	51.05	A16S
ATOM	12609	N7	A	A	608	123.937	84.786	2.337	1.00	51.05	A16S
ATOM	12610	C8	A	A	608	122.819	84.706	3.011	1.00	51.05	A16S
ATOM	12611	C2*	A	A	608	122.122	84.536	6.466	1.00	54.67	A16S
ATOM	12612	O2*	A	A	608	121.720	83.762	7.576	1.00	54.67	A16S
ATOM	12613	C3*	A	A	608	121.248	85.762	6.251	1.00	54.67	A16S
ATOM	12614	O3*	A	A	608	120.839	86.320	7.485	1.00	54.67	A16S
ATOM	12615	P	A	A	609	121.612	87.607	8.067	1.00	39.52	A16S
ATOM	12616	O1P	A	A	609	121.068	87.905	9.419	1.00	64.77	A16S
ATOM	12617	O2P	A	A	609	121.577	88.658	7.009	1.00	64.77	A16S
ATOM	12618	O5*	A	A	609	123.114	87.108	8.279	1.00	39.52	A16S
ATOM	12619	C5*	A	A	609	123.411	86.064	9.229	1.00	39.52	A16S
ATOM	12620	C4*	A	A	609	124.825	85.558	9.048	1.00	39.52	A16S
ATOM	12621	O4*	A	A	609	124.978	84.920	7.755	1.00	39.52	A16S

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ATOM	12622	C1*	A	A	609	126.294	85.138	7.277	1.00	39.52	A16S
ATOM	12623	N9	A	A	609	126.221	85.902	6.036	1.00	64.77	A16S
ATOM	12624	C4	A	A	609	127.283	86.168	5.209	1.00	64.77	A16S
ATOM	12625	N3	A	A	609	128.547	85.745	5.352	1.00	64.77	A16S
ATOM	12626	C2	A	A	609	129.304	86.212	4.369	1.00	64.77	A16S
ATOM	12627	N1	A	A	609	128.970	86.997	3.340	1.00	64.77	A16S
ATOM	12628	C6	A	A	609	127.692	87.405	3.229	1.00	64.77	A16S
ATOM	12629	N6	A	A	609	127.359	88.200	2.209	1.00	64.77	A16S
ATOM	12630	C5	A	A	609	126.785	86.970	4.203	1.00	64.77	A16S
ATOM	12631	N7	A	A	609	125.424	87.183	4.372	1.00	64.77	A16S
ATOM	12632	C8	A	A	609	125.138	86.525	5.469	1.00	64.77	A16S
ATOM	12633	C2*	A	A	609	127.052	85.938	8.333	1.00	39.52	A16S
ATOM	12634	O2*	A	A	609	127.798	85.059	9.146	1.00	39.52	A16S
ATOM	12635	C3*	A	A	609	125.914	86.612	9.079	1.00	39.52	A16S
ATOM	12636	O3*	A	A	609	126.282	86.943	10.402	1.00	39.52	A16S
ATOM	12637	P	G	A	610	126.592	88.477	10.773	1.00	54.51	A16S
ATOM	12638	O1P	G	A	610	127.074	88.516	12.186	1.00	74.70	A16S
ATOM	12639	O2P	G	A	610	125.396	89.278	10.375	1.00	74.70	A16S
ATOM	12640	O5*	G	A	610	127.813	88.863	9.821	1.00	54.51	A16S
ATOM	12641	C5*	G	A	610	129.092	88.213	9.966	1.00	54.51	A16S
ATOM	12642	C4*	G	A	610	130.095	88.767	8.978	1.00	54.51	A16S
ATOM	12643	O4*	G	A	610	129.713	88.405	7.629	1.00	54.51	A16S
ATOM	12644	C1*	G	A	610	130.076	89.446	6.739	1.00	54.51	A16S
ATOM	12645	N9	G	A	610	128.871	89.895	6.050	1.00	74.70	A16S
ATOM	12646	C4	G	A	610	128.812	90.771	4.998	1.00	74.70	A16S
ATOM	12647	N3	G	A	610	129.861	91.388	4.422	1.00	74.70	A16S
ATOM	12648	C2	G	A	610	129.488	92.168	3.425	1.00	74.70	A16S
ATOM	12649	N2	G	A	610	130.403	92.868	2.749	1.00	74.70	A16S
ATOM	12650	N1	G	A	610	128.190	92.322	3.019	1.00	74.70	A16S
ATOM	12651	C6	G	A	610	127.094	91.691	3.597	1.00	74.70	A16S
ATOM	12652	O6	G	A	610	125.961	91.889	3.148	1.00	74.70	A16S
ATOM	12653	C5	G	A	610	127.479	90.864	4.675	1.00	74.70	A16S
ATOM	12654	N7	G	A	610	126.712	90.073	5.516	1.00	74.70	A16S
ATOM	12655	C8	G	A	610	127.578	89.518	6.313	1.00	74.70	A16S
ATOM	12656	C2*	G	A	610	130.770	90.542	7.551	1.00	54.51	A16S
ATOM	12657	O2*	G	A	610	132.165	90.345	7.515	1.00	54.51	A16S
ATOM	12658	C3*	G	A	610	130.240	90.277	8.948	1.00	54.51	A16S
ATOM	12659	O3*	G	A	610	131.165	90.722	9.915	1.00	54.51	A16S
ATOM	12660	P	A	A	611	130.992	92.182	10.537	1.00	56.73	A16S
ATOM	12661	O1P	A	A	611	132.137	92.437	11.450	1.00	74.69	A16S
ATOM	12662	O2P	A	A	611	129.604	92.260	11.057	1.00	74.69	A16S
ATOM	12663	O5*	A	A	611	131.097	93.146	9.276	1.00	56.73	A16S
ATOM	12664	C5*	A	A	611	132.348	93.339	8.608	1.00	56.73	A16S
ATOM	12665	C4*	A	A	611	132.190	94.343	7.492	1.00	56.73	A16S
ATOM	12666	O4*	A	A	611	131.337	93.795	6.454	1.00	56.73	A16S
ATOM	12667	C1*	A	A	611	130.521	94.816	5.915	1.00	56.73	A16S
ATOM	12668	N9	A	A	611	129.131	94.459	6.173	1.00	74.69	A16S
ATOM	12669	C4	A	A	611	128.049	94.971	5.511	1.00	74.69	A16S
ATOM	12670	N3	A	A	611	128.062	95.847	4.498	1.00	74.69	A16S
ATOM	12671	C2	A	A	611	126.825	96.136	4.115	1.00	74.69	A16S
ATOM	12672	N1	A	A	611	125.668	95.689	4.599	1.00	74.69	A16S
ATOM	12673	C6	A	A	611	125.693	94.811	5.625	1.00	74.69	A16S
ATOM	12674	N6	A	A	611	124.534	94.379	6.122	1.00	74.69	A16S
ATOM	12675	C5	A	A	611	126.942	94.413	6.112	1.00	74.69	A16S
ATOM	12676	N7	A	A	611	127.317	93.538	7.121	1.00	74.69	A16S
ATOM	12677	C8	A	A	611	128.625	93.597	7.114	1.00	74.69	A16S
ATOM	12678	C2*	A	A	611	130.899	96.132	6.598	1.00	56.73	A16S
ATOM	12679	O2*	A	A	611	131.804	96.841	5.782	1.00	56.73	A16S
ATOM	12680	C3*	A	A	611	131.517	95.637	7.902	1.00	56.73	A16S
ATOM	12681	O3*	A	A	611	132.454	96.535	8.478	1.00	56.73	A16S
ATOM	12682	P	C	A	612	132.078	97.289	9.843	1.00	56.07	A16S
ATOM	12683	O1P	C	A	612	133.264	98.076	10.284	1.00	75.46	A16S
ATOM	12684	O2P	C	A	612	131.489	96.277	10.761	1.00	75.46	A16S
ATOM	12685	O5*	C	A	612	130.927	98.300	9.396	1.00	56.07	A16S
ATOM	12686	C5*	C	A	612	131.204	99.340	8.436	1.00	56.07	A16S
ATOM	12687	C4*	C	A	612	129.962	100.155	8.147	1.00	56.07	A16S
ATOM	12688	O4*	C	A	612	129.041	99.413	7.312	1.00	56.07	A16S
ATOM	12689	C1*	C	A	612	127.710	99.785	7.629	1.00	56.07	A16S
ATOM	12690	N1	C	A	612	126.967	98.572	8.023	1.00	75.46	A16S
ATOM	12691	C6	C	A	612	127.620	97.510	8.584	1.00	75.46	A16S
ATOM	12692	C2	C	A	612	125.579	98.519	7.820	1.00	75.46	A16S
ATOM	12693	O2	C	A	612	125.003	99.484	7.310	1.00	75.46	A16S
ATOM	12694	N3	C	A	612	124.904	97.414	8.187	1.00	75.46	A16S
ATOM	12695	C4	C	A	612	125.555	96.387	8.736	1.00	75.46	A16S
ATOM	12696	N4	C	A	612	124.848	95.317	9.087	1.00	75.46	A16S
ATOM	12697	C5	C	A	612	126.959	96.411	8.951	1.00	75.46	A16S
ATOM	12698	C2*	C	A	612	127.772	100.852	8.723	1.00	56.07	A16S

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ATOM	12699	O2*	C	A	612	127.725	102.121	8.115	1.00	56.07	A16S
ATOM	12700	C3*	C	A	612	129.136	100.589	9.342	1.00	56.07	A16S
ATOM	12701	O3*	C	A	612	129.680	101.752	9.940	1.00	56.07	A16S
ATOM	12702	P	C	A	613	129.533	101.962	11.523	1.00	58.35	A16S
ATOM	12703	O1P	C	A	613	130.364	103.139	11.870	1.00	77.95	A16S
ATOM	12704	O2P	C	A	613	129.790	100.661	12.201	1.00	77.95	A16S
ATOM	12705	O5*	C	A	613	127.996	102.359	11.698	1.00	58.35	A16S
ATOM	12706	C5*	C	A	613	127.507	103.623	11.186	1.00	58.35	A16S
ATOM	12707	C4*	C	A	613	126.023	103.789	11.455	1.00	58.35	A16S
ATOM	12708	O4*	C	A	613	125.239	102.922	10.594	1.00	58.35	A16S
ATOM	12709	C1*	C	A	613	124.089	102.459	11.295	1.00	58.35	A16S
ATOM	12710	N1	C	A	613	124.188	100.988	11.456	1.00	77.95	A16S
ATOM	12711	C6	C	A	613	125.407	100.384	11.642	1.00	77.95	A16S
ATOM	12712	C2	C	A	613	123.017	100.213	11.424	1.00	77.95	A16S
ATOM	12713	O2	C	A	613	121.927	100.776	11.280	1.00	77.95	A16S
ATOM	12714	N3	C	A	613	123.112	98.872	11.560	1.00	77.95	A16S
ATOM	12715	C4	C	A	613	124.309	98.299	11.729	1.00	77.95	A16S
ATOM	12716	N4	C	A	613	124.362	96.974	11.839	1.00	77.95	A16S
ATOM	12717	C5	C	A	613	125.509	99.059	11.785	1.00	77.95	A16S
ATOM	12718	C2*	C	A	613	124.082	103.155	12.655	1.00	58.35	A16S
ATOM	12719	O2*	C	A	613	123.314	104.331	12.579	1.00	58.35	A16S
ATOM	12720	C3*	C	A	613	125.557	103.452	12.855	1.00	58.35	A16S
ATOM	12721	O3*	C	A	613	125.748	104.511	13.755	1.00	58.35	A16S
ATOM	12722	P	A	A	614	125.868	104.189	15.322	1.00	62.35	A16S
ATOM	12723	O1P	A	A	614	126.347	105.451	15.957	1.00	68.12	A16S
ATOM	12724	O2P	A	A	614	126.648	102.926	15.512	1.00	68.12	A16S
ATOM	12725	O5*	A	A	614	124.361	103.892	15.753	1.00	62.35	A16S
ATOM	12726	C5*	A	A	614	123.310	104.821	15.431	1.00	62.35	A16S
ATOM	12727	C4*	A	A	614	121.961	104.231	15.770	1.00	62.35	A16S
ATOM	12728	O4*	A	A	614	121.580	103.228	14.791	1.00	62.35	A16S
ATOM	12729	C1*	A	A	614	120.875	102.180	15.435	1.00	62.35	A16S
ATOM	12730	N9	A	A	614	121.660	100.946	15.306	1.00	68.12	A16S
ATOM	12731	C4	A	A	614	121.194	99.663	15.481	1.00	68.12	A16S
ATOM	12732	N3	A	A	614	119.940	99.280	15.778	1.00	68.12	A16S
ATOM	12733	C2	A	A	614	119.862	97.960	15.879	1.00	68.12	A16S
ATOM	12734	N1	A	A	614	120.816	97.048	15.735	1.00	68.12	A16S
ATOM	12735	C6	A	A	614	122.067	97.462	15.449	1.00	68.12	A16S
ATOM	12736	N6	A	A	614	123.028	96.550	15.328	1.00	68.12	A16S
ATOM	12737	C5	A	A	614	122.284	98.838	15.304	1.00	68.12	A16S
ATOM	12738	N7	A	A	614	123.421	99.578	15.010	1.00	68.12	A16S
ATOM	12739	C8	A	A	614	122.999	100.818	15.018	1.00	68.12	A16S
ATOM	12740	C2*	A	A	614	120.709	102.576	16.906	1.00	62.35	A16S
ATOM	12741	O2*	A	A	614	119.471	103.225	17.120	1.00	62.35	A16S
ATOM	12742	C3*	A	A	614	121.888	103.511	17.102	1.00	62.35	A16S
ATOM	12743	O3*	A	A	614	121.723	104.383	18.202	1.00	62.35	A16S
ATOM	12744	P	C	A	615	122.392	103.994	19.607	1.00	63.53	A16S
ATOM	12745	O1P	C	A	615	122.390	105.194	20.483	1.00	76.08	A16S
ATOM	12746	O2P	C	A	615	123.684	103.321	19.296	1.00	76.08	A16S
ATOM	12747	O5*	C	A	615	121.363	102.928	20.212	1.00	63.53	A16S
ATOM	12748	C5*	C	A	615	119.984	103.301	20.468	1.00	63.53	A16S
ATOM	12749	C4*	C	A	615	119.111	102.077	20.695	1.00	63.53	A16S
ATOM	12750	O4*	C	A	615	119.034	101.279	19.479	1.00	63.53	A16S
ATOM	12751	C1*	C	A	615	118.955	99.901	19.820	1.00	63.53	A16S
ATOM	12752	N1	C	A	615	120.195	99.229	19.373	1.00	76.08	A16S
ATOM	12753	C6	C	A	615	121.320	99.949	19.082	1.00	76.08	A16S
ATOM	12754	C2	C	A	615	120.211	97.829	19.269	1.00	76.08	A16S
ATOM	12755	O2	C	A	615	119.181	97.193	19.522	1.00	76.08	A16S
ATOM	12756	N3	C	A	615	121.348	97.208	18.896	1.00	76.08	A16S
ATOM	12757	C4	C	A	615	122.438	97.922	18.626	1.00	76.08	A16S
ATOM	12758	N4	C	A	615	123.540	97.263	18.273	1.00	76.08	A16S
ATOM	12759	C5	C	A	615	122.450	99.343	18.707	1.00	76.08	A16S
ATOM	12760	C2*	C	A	615	118.846	99.814	21.342	1.00	63.53	A16S
ATOM	12761	O2*	C	A	615	117.492	99.806	21.759	1.00	63.53	A16S
ATOM	12762	C3*	C	A	615	119.551	101.088	21.765	1.00	63.53	A16S
ATOM	12763	O3*	C	A	615	119.148	101.431	23.071	1.00	63.53	A16S
ATOM	12764	P	G	A	616	119.961	100.830	24.320	1.00	70.60	A16S
ATOM	12765	O1P	G	A	616	119.254	101.335	25.527	1.00	75.60	A16S
ATOM	12766	O2P	G	A	616	121.414	101.099	24.148	1.00	75.60	A16S
ATOM	12767	O5*	G	A	616	119.765	99.250	24.213	1.00	70.60	A16S
ATOM	12768	C5*	G	A	616	118.478	98.655	24.455	1.00	70.60	A16S
ATOM	12769	C4*	G	A	616	118.528	97.154	24.268	1.00	70.60	A16S
ATOM	12770	O4*	G	A	616	118.991	96.852	22.929	1.00	70.60	A16S
ATOM	12771	C1*	G	A	616	119.659	95.600	22.931	1.00	70.60	A16S
ATOM	12772	N9	G	A	616	121.021	95.778	22.435	1.00	75.60	A16S
ATOM	12773	C4	G	A	616	121.865	94.772	22.024	1.00	75.60	A16S
ATOM	12774	N3	G	A	616	121.572	93.452	22.002	1.00	75.60	A16S
ATOM	12775	C2	G	A	616	122.587	92.732	21.578	1.00	75.60	A16S

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ATOM	12776	N2	G	A	616	122.470	91.407	21.522	1.00	75.60	A16S
ATOM	12777	N1	G	A	616	123.794	93.261	21.185	1.00	75.60	A16S
ATOM	12778	C6	G	A	616	124.117	94.619	21.191	1.00	75.60	A16S
ATOM	12779	O6	G	A	616	125.240	94.999	20.805	1.00	75.60	A16S
ATOM	12780	C5	G	A	616	123.037	95.403	21.664	1.00	75.60	A16S
ATOM	12781	N7	G	A	616	122.932	96.775	21.839	1.00	75.60	A16S
ATOM	12782	C8	G	A	616	121.722	96.952	22.294	1.00	75.60	A16S
ATOM	12783	C2*	G	A	616	119.642	95.063	24.360	1.00	70.60	A16S
ATOM	12784	O2*	G	A	616	118.573	94.149	24.497	1.00	70.60	A16S
ATOM	12785	C3*	G	A	616	119.438	96.334	25.171	1.00	70.60	A16S
ATOM	12786	O3*	G	A	616	118.826	96.006	26.406	1.00	70.60	A16S
ATOM	12787	P	G	A	617	119.730	95.457	27.612	1.00	59.92	A16S
ATOM	12788	O1P	G	A	617	118.848	95.353	28.802	1.00	73.27	A16S
ATOM	12789	O2P	G	A	617	120.960	96.288	27.676	1.00	73.27	A16S
ATOM	12790	O5*	G	A	617	120.169	93.987	27.161	1.00	59.92	A16S
ATOM	12791	C5*	G	A	617	119.249	92.858	27.237	1.00	59.92	A16S
ATOM	12792	C4*	G	A	617	119.980	91.532	27.055	1.00	59.92	A16S
ATOM	12793	O4*	G	A	617	120.490	91.409	25.701	1.00	59.92	A16S
ATOM	12794	C1*	G	A	617	121.698	90.666	25.709	1.00	59.92	A16S
ATOM	12795	N9	G	A	617	122.765	91.478	25.127	1.00	73.27	A16S
ATOM	12796	C4	G	A	617	124.024	91.041	24.763	1.00	73.27	A16S
ATOM	12797	N3	G	A	617	124.493	89.778	24.879	1.00	73.27	A16S
ATOM	12798	C2	G	A	617	125.736	89.667	24.440	1.00	73.27	A16S
ATOM	12799	N2	G	A	617	126.350	88.474	24.468	1.00	73.27	A16S
ATOM	12800	N1	G	A	617	126.467	90.716	23.940	1.00	73.27	A16S
ATOM	12801	C6	G	A	617	126.011	92.025	23.824	1.00	73.27	A16S
ATOM	12802	O6	G	A	617	126.763	92.902	23.380	1.00	73.27	A16S
ATOM	12803	C5	G	A	617	124.670	92.154	24.274	1.00	73.27	A16S
ATOM	12804	N7	G	A	617	123.842	93.267	24.324	1.00	73.27	A16S
ATOM	12805	C8	G	A	617	122.727	92.819	24.836	1.00	73.27	A16S
ATOM	12806	C2*	G	A	617	121.985	90.253	27.151	1.00	59.92	A16S
ATOM	12807	O2*	G	A	617	121.516	88.933	27.335	1.00	59.92	A16S
ATOM	12808	C3*	G	A	617	121.190	91.287	27.938	1.00	59.92	A16S
ATOM	12809	O3*	G	A	617	120.817	90.796	29.212	1.00	59.92	A16S
ATOM	12810	P	C	A	618	121.669	91.233	30.504	1.00	61.16	A16S
ATOM	12811	O1P	C	A	618	121.015	90.606	31.691	1.00	74.99	A16S
ATOM	12812	O2P	C	A	618	121.834	92.716	30.457	1.00	74.99	A16S
ATOM	12813	O5*	C	A	618	123.105	90.559	30.291	1.00	61.16	A16S
ATOM	12814	C5*	C	A	618	123.331	89.216	30.741	1.00	61.16	A16S
ATOM	12815	C4*	C	A	618	124.718	88.714	30.381	1.00	61.16	A16S
ATOM	12816	O4*	C	A	618	125.007	88.924	28.978	1.00	61.16	A16S
ATOM	12817	C1*	C	A	618	126.368	88.632	28.772	1.00	61.16	A16S
ATOM	12818	N1	C	A	618	126.991	89.582	27.833	1.00	74.99	A16S
ATOM	12819	C6	C	A	618	126.660	90.908	27.805	1.00	74.99	A16S
ATOM	12820	C2	C	A	618	127.988	89.090	26.989	1.00	74.99	A16S
ATOM	12821	O2	C	A	618	128.209	87.874	26.976	1.00	74.99	A16S
ATOM	12822	N3	C	A	618	128.680	89.942	26.203	1.00	74.99	A16S
ATOM	12823	C4	C	A	618	128.391	91.237	26.217	1.00	74.99	A16S
ATOM	12824	N4	C	A	618	129.135	92.040	25.457	1.00	74.99	A16S
ATOM	12825	C5	C	A	618	127.332	91.766	27.020	1.00	74.99	A16S
ATOM	12826	C2*	C	A	618	127.053	88.623	30.141	1.00	61.16	A16S
ATOM	12827	O2*	C	A	618	127.296	87.267	30.445	1.00	61.16	A16S
ATOM	12828	C3*	C	A	618	125.987	89.215	31.065	1.00	61.16	A16S
ATOM	12829	O3*	C	A	618	126.119	88.640	32.382	1.00	61.16	A16S
ATOM	12830	P	U	A	619	127.480	88.842	33.267	1.00	58.30	A16S
ATOM	12831	O1P	U	A	619	128.683	88.346	32.530	1.00	56.15	A16S
ATOM	12832	O2P	U	A	619	127.214	88.329	34.643	1.00	56.15	A16S
ATOM	12833	O5*	U	A	619	127.688	90.414	33.382	1.00	58.30	A16S
ATOM	12834	C5*	U	A	619	126.639	91.273	33.829	1.00	58.30	A16S
ATOM	12835	C4*	U	A	619	127.205	92.628	34.132	1.00	58.30	A16S
ATOM	12836	O4*	U	A	619	128.080	92.527	35.276	1.00	58.30	A16S
ATOM	12837	C1*	U	A	619	129.160	93.413	35.118	1.00	58.30	A16S
ATOM	12838	N1	U	A	619	130.393	92.636	35.203	1.00	56.15	A16S
ATOM	12839	C6	U	A	619	130.458	91.349	34.734	1.00	56.15	A16S
ATOM	12840	C2	U	A	619	131.489	93.249	35.771	1.00	56.15	A16S
ATOM	12841	O2	U	A	619	131.466	94.400	36.198	1.00	56.15	A16S
ATOM	12842	N3	U	A	619	132.616	92.473	35.822	1.00	56.15	A16S
ATOM	12843	C4	U	A	619	132.752	91.181	35.374	1.00	56.15	A16S
ATOM	12844	O4	U	A	619	133.835	90.614	35.501	1.00	56.15	A16S
ATOM	12845	C5	U	A	619	131.570	90.619	34.797	1.00	56.15	A16S
ATOM	12846	C2*	U	A	619	129.006	94.132	33.778	1.00	58.30	A16S
ATOM	12847	O2*	U	A	619	128.436	95.401	33.987	1.00	58.30	A16S
ATOM	12848	C3*	U	A	619	128.076	93.196	33.032	1.00	58.30	A16S
ATOM	12849	O3*	U	A	619	127.288	93.867	32.068	1.00	58.30	A16S
ATOM	12850	P	C	A	620	127.522	93.557	30.512	1.00	48.28	A16S
ATOM	12851	O1P	C	A	620	126.388	94.146	29.717	1.00	55.29	A16S
ATOM	12852	O2P	C	A	620	127.822	92.105	30.392	1.00	55.29	A16S

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ATOM	12853	O5*	C	A	620	128.865	94.347	30.185	1.00	48.28	A16S
ATOM	12854	C5*	C	A	620	128.893	95.772	30.259	1.00	48.28	A16S
ATOM	12855	C4*	C	A	620	130.183	96.294	29.704	1.00	48.28	A16S
ATOM	12856	O4*	C	A	620	131.266	95.808	30.523	1.00	48.28	A16S
ATOM	12857	C1*	C	A	620	132.429	95.692	29.729	1.00	48.28	A16S
ATOM	12858	N1	C	A	620	133.058	94.377	29.957	1.00	55.29	A16S
ATOM	12859	C6	C	A	620	132.317	93.244	30.166	1.00	55.29	A16S
ATOM	12860	C2	C	A	620	134.447	94.317	29.968	1.00	55.29	A16S
ATOM	12861	O2	C	A	620	135.089	95.358	29.756	1.00	55.29	A16S
ATOM	12862	N3	C	A	620	135.062	93.138	30.204	1.00	55.29	A16S
ATOM	12863	C4	C	A	620	134.339	92.040	30.416	1.00	55.29	A16S
ATOM	12864	N4	C	A	620	134.996	90.904	30.643	1.00	55.29	A16S
ATOM	12865	C5	C	A	620	132.913	92.063	30.400	1.00	55.29	A16S
ATOM	12866	C2*	C	A	620	132.064	96.029	28.283	1.00	48.28	A16S
ATOM	12867	O2*	C	A	620	132.428	97.375	28.034	1.00	48.28	A16S
ATOM	12868	C3*	C	A	620	130.554	95.858	28.296	1.00	48.28	A16S
ATOM	12869	O3*	C	A	620	129.958	96.694	27.327	1.00	48.28	A16S
ATOM	12870	P	A	A	621	129.478	96.067	25.930	1.00	48.24	A16S
ATOM	12871	O1P	A	A	621	128.902	97.160	25.113	1.00	65.11	A16S
ATOM	12872	O2P	A	A	621	128.648	94.872	26.230	1.00	65.11	A16S
ATOM	12873	O5*	A	A	621	130.847	95.632	25.244	1.00	48.24	A16S
ATOM	12874	C5*	A	A	621	131.809	96.629	24.852	1.00	48.24	A16S
ATOM	12875	C4*	A	A	621	133.161	96.001	24.594	1.00	48.24	A16S
ATOM	12876	O4*	A	A	621	133.643	95.364	25.810	1.00	48.24	A16S
ATOM	12877	C1*	A	A	621	134.330	94.170	25.484	1.00	48.24	A16S
ATOM	12878	N9	A	A	621	133.618	93.052	26.113	1.00	65.11	A16S
ATOM	12879	C4	A	A	621	134.166	91.846	26.479	1.00	65.11	A16S
ATOM	12880	N3	A	A	621	135.443	91.459	26.344	1.00	65.11	A16S
ATOM	12881	C2	A	A	621	135.611	90.233	26.812	1.00	65.11	A16S
ATOM	12882	N1	A	A	621	134.720	89.406	27.365	1.00	65.11	A16S
ATOM	12883	C6	A	A	621	133.445	89.821	27.492	1.00	65.11	A16S
ATOM	12884	N6	A	A	621	132.564	88.996	28.056	1.00	65.11	A16S
ATOM	12885	C5	A	A	621	133.130	91.107	27.024	1.00	65.11	A16S
ATOM	12886	N7	A	A	621	131.943	91.830	26.999	1.00	65.11	A16S
ATOM	12887	C8	A	A	621	132.284	92.974	26.455	1.00	65.11	A16S
ATOM	12888	C2*	A	A	621	134.379	94.066	23.953	1.00	48.24	A16S
ATOM	12889	O2*	A	A	621	135.582	94.617	23.451	1.00	48.24	A16S
ATOM	12890	C3*	A	A	621	133.181	94.906	23.543	1.00	48.24	A16S
ATOM	12891	O3*	A	A	621	133.332	95.427	22.233	1.00	48.24	A16S
ATOM	12892	P	A	A	622	132.597	94.692	21.011	1.00	53.79	A16S
ATOM	12893	O1P	A	A	622	132.816	95.487	19.776	1.00	63.06	A16S
ATOM	12894	O2P	A	A	622	131.207	94.404	21.442	1.00	63.06	A16S
ATOM	12895	O5*	A	A	622	133.401	93.316	20.900	1.00	53.79	A16S
ATOM	12896	C5*	A	A	622	134.791	93.305	20.502	1.00	53.79	A16S
ATOM	12897	C4*	A	A	622	135.410	91.933	20.707	1.00	53.79	A16S
ATOM	12898	O4*	A	A	622	135.475	91.625	22.124	1.00	53.79	A16S
ATOM	12899	C1*	A	A	622	135.317	90.226	22.315	1.00	53.79	A16S
ATOM	12900	N9	A	A	622	134.078	89.989	23.056	1.00	63.06	A16S
ATOM	12901	C4	A	A	622	133.753	88.866	23.778	1.00	63.06	A16S
ATOM	12902	N3	A	A	622	134.525	87.792	24.017	1.00	63.06	A16S
ATOM	12903	C2	A	A	622	133.858	86.884	24.729	1.00	63.06	A16S
ATOM	12904	N1	A	A	622	132.601	86.923	25.183	1.00	63.06	A16S
ATOM	12905	C6	A	A	622	131.854	88.016	24.911	1.00	63.06	A16S
ATOM	12906	N6	A	A	622	130.592	88.057	25.331	1.00	63.06	A16S
ATOM	12907	C5	A	A	622	132.448	89.050	24.188	1.00	63.06	A16S
ATOM	12908	N7	A	A	622	131.973	90.283	23.777	1.00	63.06	A16S
ATOM	12909	C8	A	A	622	132.981	90.806	23.126	1.00	63.06	A16S
ATOM	12910	C2*	A	A	622	135.223	89.578	20.933	1.00	53.79	A16S
ATOM	12911	O2*	A	A	622	136.512	89.140	20.544	1.00	53.79	A16S
ATOM	12912	C3*	A	A	622	134.706	90.733	20.084	1.00	53.79	A16S
ATOM	12913	O3*	A	A	622	135.056	90.544	18.723	1.00	53.79	A16S
ATOM	12914	P	C	A	623	133.904	90.285	17.633	1.00	51.13	A16S
ATOM	12915	O1P	C	A	623	134.570	89.691	16.446	1.00	56.29	A16S
ATOM	12916	O2P	C	A	623	133.125	91.533	17.480	1.00	56.29	A16S
ATOM	12917	O5*	C	A	623	132.940	89.203	18.300	1.00	51.13	A16S
ATOM	12918	C5*	C	A	623	133.367	87.837	18.468	1.00	51.13	A16S
ATOM	12919	C4*	C	A	623	132.301	87.026	19.171	1.00	51.13	A16S
ATOM	12920	O4*	C	A	623	132.196	87.451	20.555	1.00	51.13	A16S
ATOM	12921	C1*	C	A	623	130.834	87.433	20.954	1.00	51.13	A16S
ATOM	12922	N1	C	A	623	130.422	88.822	21.238	1.00	56.29	A16S
ATOM	12923	C6	C	A	623	131.173	89.873	20.793	1.00	56.29	A16S
ATOM	12924	C2	C	A	623	129.236	89.054	21.946	1.00	56.29	A16S
ATOM	12925	O2	C	A	623	128.579	88.095	22.354	1.00	56.29	A16S
ATOM	12926	N3	C	A	623	128.838	90.319	22.164	1.00	56.29	A16S
ATOM	12927	C4	C	A	623	129.574	91.336	21.718	1.00	56.29	A16S
ATOM	12928	N4	C	A	623	129.144	92.574	21.962	1.00	56.29	A16S
ATOM	12929	C5	C	A	623	130.787	91.132	21.005	1.00	56.29	A16S

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ATOM	12930	C2*	C	A	623	130.021	86.836	19.798	1.00	51.13	A16S
ATOM	12931	O2*	C	A	623	129.875	85.444	19.969	1.00	51.13	A16S
ATOM	12932	C3*	C	A	623	130.897	87.162	18.600	1.00	51.13	A16S
ATOM	12933	O3*	C	A	623	130.660	86.269	17.519	1.00	51.13	A16S
ATOM	12934	P	C	A	624	129.547	86.640	16.414	1.00	57.62	A16S
ATOM	12935	O1P	C	A	624	129.455	85.529	15.412	1.00	71.78	A16S
ATOM	12936	O2P	C	A	624	129.817	88.030	15.944	1.00	71.78	A16S
ATOM	12937	O5*	C	A	624	128.196	86.653	17.255	1.00	57.62	A16S
ATOM	12938	C5*	C	A	624	127.684	85.442	17.816	1.00	57.62	A16S
ATOM	12939	C4*	C	A	624	126.459	85.722	18.649	1.00	57.62	A16S
ATOM	12940	O4*	C	A	624	126.827	86.518	19.801	1.00	57.62	A16S
ATOM	12941	C1*	C	A	624	125.750	87.363	20.147	1.00	57.62	A16S
ATOM	12942	N1	C	A	624	126.217	88.746	20.102	1.00	71.78	A16S
ATOM	12943	C6	C	A	624	127.268	89.109	19.312	1.00	71.78	A16S
ATOM	12944	C2	C	A	624	125.544	89.690	20.851	1.00	71.78	A16S
ATOM	12945	O2	C	A	624	124.632	89.315	21.608	1.00	71.78	A16S
ATOM	12946	N3	C	A	624	125.897	90.983	20.742	1.00	71.78	A16S
ATOM	12947	C4	C	A	624	126.893	91.334	19.933	1.00	71.78	A16S
ATOM	12948	N4	C	A	624	127.175	92.628	19.815	1.00	71.78	A16S
ATOM	12949	C5	C	A	624	127.634	90.380	19.200	1.00	71.78	A16S
ATOM	12950	C2*	C	A	624	124.606	87.133	19.153	1.00	57.62	A16S
ATOM	12951	O2*	C	A	624	123.626	86.320	19.759	1.00	57.62	A16S
ATOM	12952	C3*	C	A	624	125.331	86.487	17.972	1.00	57.62	A16S
ATOM	12953	O3*	C	A	624	124.495	85.591	17.242	1.00	57.62	A16S
ATOM	12954	P	G	A	625	123.545	86.153	16.077	1.00	49.23	A16S
ATOM	12955	O1P	G	A	625	122.914	84.999	15.393	1.00	71.53	A16S
ATOM	12956	O2P	G	A	625	124.309	87.144	15.282	1.00	71.53	A16S
ATOM	12957	O5*	G	A	625	122.372	86.896	16.852	1.00	49.23	A16S
ATOM	12958	C5*	G	A	625	121.454	86.142	17.660	1.00	49.23	A16S
ATOM	12959	C4*	G	A	625	120.416	87.049	18.275	1.00	49.23	A16S
ATOM	12960	O4*	G	A	625	121.049	87.964	19.205	1.00	49.23	A16S
ATOM	12961	C1*	G	A	625	120.371	89.209	19.174	1.00	49.23	A16S
ATOM	12962	N9	G	A	625	121.324	90.257	18.808	1.00	71.53	A16S
ATOM	12963	C4	G	A	625	121.096	91.614	18.864	1.00	71.53	A16S
ATOM	12964	N3	G	A	625	119.959	92.207	19.276	1.00	71.53	A16S
ATOM	12965	C2	G	A	625	120.036	93.518	19.206	1.00	71.53	A16S
ATOM	12966	N2	G	A	625	118.992	94.264	19.583	1.00	71.53	A16S
ATOM	12967	N1	G	A	625	121.139	94.196	18.764	1.00	71.53	A16S
ATOM	12968	C6	G	A	625	122.318	93.610	18.336	1.00	71.53	A16S
ATOM	12969	O6	G	A	625	123.247	94.319	17.951	1.00	71.53	A16S
ATOM	12970	C5	G	A	625	122.253	92.200	18.409	1.00	71.53	A16S
ATOM	12971	N7	G	A	625	123.197	91.236	18.083	1.00	71.53	A16S
ATOM	12972	C8	G	A	625	122.605	90.100	18.337	1.00	71.53	A16S
ATOM	12973	C2*	G	A	625	119.206	89.091	18.187	1.00	49.23	A16S
ATOM	12974	O2*	G	A	625	118.021	88.797	18.894	1.00	49.23	A16S
ATOM	12975	C3*	G	A	625	119.664	87.940	17.302	1.00	49.23	A16S
ATOM	12976	O3*	G	A	625	118.577	87.255	16.701	1.00	49.23	A16S
ATOM	12977	P	U	A	626	118.140	87.640	15.209	1.00	54.79	A16S
ATOM	12978	O1P	U	A	626	117.156	86.644	14.733	1.00	55.29	A16S
ATOM	12979	O2P	U	A	626	119.381	87.886	14.429	1.00	55.29	A16S
ATOM	12980	O5*	U	A	626	117.372	89.017	15.405	1.00	54.79	A16S
ATOM	12981	C5*	U	A	626	116.180	89.071	16.209	1.00	54.79	A16S
ATOM	12982	C4*	U	A	626	115.696	90.496	16.349	1.00	54.79	A16S
ATOM	12983	O4*	U	A	626	116.605	91.256	17.183	1.00	54.79	A16S
ATOM	12984	C1*	U	A	626	116.686	92.590	16.703	1.00	54.79	A16S
ATOM	12985	N1	U	A	626	118.085	92.863	16.323	1.00	55.29	A16S
ATOM	12986	C6	U	A	626	118.968	91.834	16.084	1.00	55.29	A16S
ATOM	12987	C2	U	A	626	118.494	94.183	16.223	1.00	55.29	A16S
ATOM	12988	O2	U	A	626	117.739	95.132	16.374	1.00	55.29	A16S
ATOM	12989	N3	U	A	626	119.821	94.352	15.922	1.00	55.29	A16S
ATOM	12990	C4	U	A	626	120.751	93.366	15.687	1.00	55.29	A16S
ATOM	12991	O4	U	A	626	121.919	93.676	15.463	1.00	55.29	A16S
ATOM	12992	C5	U	A	626	120.247	92.038	15.774	1.00	55.29	A16S
ATOM	12993	C2*	U	A	626	115.703	92.723	15.541	1.00	54.79	A16S
ATOM	12994	O2*	U	A	626	114.463	93.179	16.042	1.00	54.79	A16S
ATOM	12995	C3*	U	A	626	115.607	91.287	15.061	1.00	54.79	A16S
ATOM	12996	O3*	U	A	626	114.397	91.048	14.389	1.00	54.79	A16S
ATOM	12997	P	G	A	627	114.318	91.337	12.822	1.00	66.68	A16S
ATOM	12998	O1P	G	A	627	112.925	91.045	12.388	1.00	72.67	A16S
ATOM	12999	O2P	G	A	627	115.449	90.648	12.165	1.00	72.67	A16S
ATOM	13000	O5*	G	A	627	114.541	92.908	12.739	1.00	66.68	A16S
ATOM	13001	C5*	G	A	627	113.525	93.785	13.232	1.00	66.68	A16S
ATOM	13002	C4*	G	A	627	113.901	95.221	13.004	1.00	66.68	A16S
ATOM	13003	O4*	G	A	627	115.019	95.582	13.848	1.00	66.68	A16S
ATOM	13004	C1*	G	A	627	115.796	96.568	13.195	1.00	66.68	A16S
ATOM	13005	N9	G	A	627	117.149	96.054	13.018	1.00	72.67	A16S
ATOM	13006	C4	G	A	627	118.274	96.811	12.820	1.00	72.67	A16S

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ATOM	13007	N3	G	A	627	118.318	98.155	12.741	1.00	72.67	A16S
ATOM	13008	C2	G	A	627	119.547	98.596	12.555	1.00	72.67	A16S
ATOM	13009	N2	G	A	627	119.774	99.910	12.444	1.00	72.67	A16S
ATOM	13010	N1	G	A	627	120.642	97.784	12.459	1.00	72.67	A16S
ATOM	13011	C6	G	A	627	120.614	96.398	12.528	1.00	72.67	A16S
ATOM	13012	O6	G	A	627	121.656	95.762	12.419	1.00	72.67	A16S
ATOM	13013	C5	G	A	627	119.307	95.911	12.723	1.00	72.67	A16S
ATOM	13014	N7	G	A	627	118.841	94.610	12.841	1.00	72.67	A16S
ATOM	13015	C8	G	A	627	117.555	94.743	13.015	1.00	72.67	A16S
ATOM	13016	C2*	G	A	627	115.131	96.876	11.852	1.00	66.68	A16S
ATOM	13017	O2*	G	A	627	114.297	98.014	11.985	1.00	66.68	A16S
ATOM	13018	C3*	G	A	627	114.340	95.601	11.604	1.00	66.68	A16S
ATOM	13019	O3*	G	A	627	113.245	95.839	10.743	1.00	66.68	A16S
ATOM	13020	P	G	A	628	113.479	95.822	9.154	1.00	75.35	A16S
ATOM	13021	O1P	G	A	628	112.147	95.980	8.504	1.00	86.05	A16S
ATOM	13022	O2P	G	A	628	114.306	94.627	8.846	1.00	86.05	A16S
ATOM	13023	O5*	G	A	628	114.335	97.139	8.877	1.00	75.35	A16S
ATOM	13024	C5*	G	A	628	113.809	98.431	9.225	1.00	75.35	A16S
ATOM	13025	C4*	G	A	628	114.856	99.499	9.042	1.00	75.35	A16S
ATOM	13026	O4*	G	A	628	115.950	99.319	9.983	1.00	75.35	A16S
ATOM	13027	C1*	G	A	628	117.174	99.726	9.382	1.00	75.35	A16S
ATOM	13028	N9	G	A	628	118.095	98.585	9.371	1.00	86.05	A16S
ATOM	13029	C4	G	A	628	119.455	98.611	9.118	1.00	86.05	A16S
ATOM	13030	N3	G	A	628	120.199	99.708	8.858	1.00	86.05	A16S
ATOM	13031	C2	G	A	628	121.470	99.401	8.631	1.00	86.05	A16S
ATOM	13032	N2	G	A	628	122.355	100.365	8.357	1.00	86.05	A16S
ATOM	13033	N1	G	A	628	121.969	98.126	8.655	1.00	86.05	A16S
ATOM	13034	C6	G	A	628	121.225	96.984	8.917	1.00	86.05	A16S
ATOM	13035	O6	G	A	628	121.773	95.883	8.901	1.00	86.05	A16S
ATOM	13036	C5	G	A	628	119.862	97.293	9.171	1.00	86.05	A16S
ATOM	13037	N7	G	A	628	118.796	96.460	9.474	1.00	86.05	A16S
ATOM	13038	C8	G	A	628	117.774	97.264	9.587	1.00	86.05	A16S
ATOM	13039	C2*	G	A	628	116.838	100.248	7.978	1.00	75.35	A16S
ATOM	13040	O2*	G	A	628	116.681	101.651	8.024	1.00	75.35	A16S
ATOM	13041	C3*	G	A	628	115.520	99.538	7.682	1.00	75.35	A16S
ATOM	13042	O3*	G	A	628	114.711	100.243	6.756	1.00	75.35	A16S
ATOM	13043	P	G	A	629	114.901	99.992	5.181	1.00	89.98	A16S
ATOM	13044	O1P	G	A	629	113.811	100.739	4.508	1.00	85.79	A16S
ATOM	13045	O2P	G	A	629	115.058	98.539	4.914	1.00	85.79	A16S
ATOM	13046	O5*	G	A	629	116.296	100.697	4.867	1.00	89.98	A16S
ATOM	13047	C5*	G	A	629	116.511	102.089	5.190	1.00	89.98	A16S
ATOM	13048	C4*	G	A	629	117.951	102.485	4.935	1.00	89.98	A16S
ATOM	13049	O4*	G	A	629	118.826	101.913	5.946	1.00	89.98	A16S
ATOM	13050	C1*	G	A	629	120.073	101.548	5.356	1.00	89.98	A16S
ATOM	13051	N9	G	A	629	120.219	100.090	5.430	1.00	85.79	A16S
ATOM	13052	C4	G	A	629	121.365	99.355	5.191	1.00	85.79	A16S
ATOM	13053	N3	G	A	629	122.576	99.853	4.869	1.00	85.79	A16S
ATOM	13054	C2	G	A	629	123.467	98.895	4.672	1.00	85.79	A16S
ATOM	13055	N2	G	A	629	124.724	99.214	4.334	1.00	85.79	A16S
ATOM	13056	N1	G	A	629	123.194	97.551	4.787	1.00	85.79	A16S
ATOM	13057	C6	G	A	629	121.957	97.013	5.120	1.00	85.79	A16S
ATOM	13058	O6	G	A	629	121.816	95.784	5.196	1.00	85.79	A16S
ATOM	13059	C5	G	A	629	120.988	98.033	5.331	1.00	85.79	A16S
ATOM	13060	N7	G	A	629	119.646	97.936	5.668	1.00	85.79	A16S
ATOM	13061	C8	G	A	629	119.233	99.174	5.722	1.00	85.79	A16S
ATOM	13062	C2*	G	A	629	120.031	102.025	3.903	1.00	89.98	A16S
ATOM	13063	O2*	G	A	629	120.561	103.332	3.802	1.00	89.98	A16S
ATOM	13064	C3*	G	A	629	118.539	102.003	3.623	1.00	89.98	A16S
ATOM	13065	O3*	G	A	629	118.190	102.807	2.521	1.00	89.98	A16S
ATOM	13066	P	G	A	630	118.161	102.148	1.062	1.00	122.61	A16S
ATOM	13067	O1P	G	A	630	117.490	103.116	0.158	1.00	99.37	A16S
ATOM	13068	O2P	G	A	630	117.631	100.765	1.189	1.00	99.37	A16S
ATOM	13069	O5*	G	A	630	119.698	102.036	0.663	1.00	122.61	A16S
ATOM	13070	C5*	G	A	630	120.548	103.198	0.666	1.00	122.61	A16S
ATOM	13071	C4*	G	A	630	121.973	102.805	0.359	1.00	122.61	A16S
ATOM	13072	O4*	G	A	630	122.488	101.972	1.431	1.00	122.61	A16S
ATOM	13073	C1*	G	A	630	123.332	100.962	0.896	1.00	122.61	A16S
ATOM	13074	N9	G	A	630	122.722	99.665	1.181	1.00	99.37	A16S
ATOM	13075	C4	G	A	630	123.355	98.441	1.257	1.00	99.37	A16S
ATOM	13076	N3	G	A	630	124.680	98.214	1.109	1.00	99.37	A16S
ATOM	13077	C2	G	A	630	124.974	96.924	1.219	1.00	99.37	A16S
ATOM	13078	N2	G	A	630	126.242	96.507	1.103	1.00	99.37	A16S
ATOM	13079	N1	G	A	630	124.044	95.946	1.453	1.00	99.37	A16S
ATOM	13080	C6	G	A	630	122.680	96.160	1.607	1.00	99.37	A16S
ATOM	13081	O6	G	A	630	121.926	95.205	1.807	1.00	99.37	A16S
ATOM	13082	C5	G	A	630	122.351	97.527	1.498	1.00	99.37	A16S
ATOM	13083	N7	G	A	630	121.119	98.158	1.589	1.00	99.37	A16S

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ATOM	13084	C8	G	A	630	121.386	99.420	1.400	1.00	99.37	A16S
ATOM	13085	C2*	G	A	630	123.447	101.214	-0.610	1.00	122.61	A16S
ATOM	13086	O2*	G	A	630	124.603	101.982	-0.879	1.00	122.61	A16S
ATOM	13087	C3*	G	A	630	122.155	101.970	-0.897	1.00	122.61	A16S
ATOM	13088	O3*	G	A	630	122.221	102.769	-2.074	1.00	122.61	A16S
ATOM	13089	P	G	A	631	121.687	102.170	-3.470	1.00	97.74	A16S
ATOM	13090	O1P	G	A	631	120.347	101.563	-3.222	1.00	132.63	A16S
ATOM	13091	O2P	G	A	631	121.838	103.209	-4.522	1.00	132.63	A16S
ATOM	13092	O5*	G	A	631	122.711	100.990	-3.790	1.00	97.74	A16S
ATOM	13093	C5*	G	A	631	124.135	101.238	-3.875	1.00	97.74	A16S
ATOM	13094	C4*	G	A	631	124.885	99.937	-4.059	1.00	97.74	A16S
ATOM	13095	O4*	G	A	631	124.791	99.134	-2.853	1.00	97.74	A16S
ATOM	13096	C1*	G	A	631	124.644	97.764	-3.194	1.00	97.74	A16S
ATOM	13097	N9	G	A	631	123.351	97.305	-2.678	1.00	132.63	A16S
ATOM	13098	C4	G	A	631	122.914	95.997	-2.558	1.00	132.63	A16S
ATOM	13099	N3	G	A	631	123.614	94.888	-2.886	1.00	132.63	A16S
ATOM	13100	C2	G	A	631	122.917	93.781	-2.672	1.00	132.63	A16S
ATOM	13101	N2	G	A	631	123.465	92.588	-2.939	1.00	132.63	A16S
ATOM	13102	N1	G	A	631	121.632	93.762	-2.178	1.00	132.63	A16S
ATOM	13103	C6	G	A	631	120.890	94.888	-1.833	1.00	132.63	A16S
ATOM	13104	O6	G	A	631	119.735	94.758	-1.398	1.00	132.63	A16S
ATOM	13105	C5	G	A	631	121.627	96.086	-2.053	1.00	132.63	A16S
ATOM	13106	N7	G	A	631	121.268	97.412	-1.846	1.00	132.63	A16S
ATOM	13107	C8	G	A	631	122.315	98.096	-2.226	1.00	132.63	A16S
ATOM	13108	C2*	G	A	631	124.773	97.658	-4.718	1.00	97.74	A16S
ATOM	13109	O2*	G	A	631	126.116	97.373	-5.063	1.00	97.74	A16S
ATOM	13110	C3*	G	A	631	124.344	99.051	-5.165	1.00	97.74	A16S
ATOM	13111	O3*	G	A	631	124.879	99.427	-6.425	1.00	97.74	A16S
ATOM	13112	P	A	A	632	123.894	99.976	-7.581	1.00	86.74	A16S
ATOM	13113	O1P	A	A	632	123.752	101.455	-7.409	1.00	90.58	A16S
ATOM	13114	O2P	A	A	632	122.665	99.123	-7.631	1.00	90.58	A16S
ATOM	13115	O5*	A	A	632	124.719	99.718	-8.921	1.00	86.74	A16S
ATOM	13116	C5*	A	A	632	126.029	100.275	-9.092	1.00	86.74	A16S
ATOM	13117	C4*	A	A	632	127.029	99.187	-9.397	1.00	86.74	A16S
ATOM	13118	O4*	A	A	632	127.153	98.282	-8.264	1.00	86.74	A16S
ATOM	13119	C1*	A	A	632	127.423	96.969	-8.730	1.00	86.74	A16S
ATOM	13120	N9	A	A	632	126.362	96.070	-8.262	1.00	90.58	A16S
ATOM	13121	C4	A	A	632	126.370	94.698	-8.368	1.00	90.58	A16S
ATOM	13122	N3	A	A	632	127.346	93.926	-8.879	1.00	90.58	A16S
ATOM	13123	C2	A	A	632	126.998	92.639	-8.838	1.00	90.58	A16S
ATOM	13124	N1	A	A	632	125.868	92.078	-8.382	1.00	90.58	A16S
ATOM	13125	C6	A	A	632	124.908	92.882	-7.879	1.00	90.58	A16S
ATOM	13126	N6	A	A	632	123.782	92.322	-7.435	1.00	90.58	A16S
ATOM	13127	C5	A	A	632	125.157	94.271	-7.858	1.00	90.58	A16S
ATOM	13128	N7	A	A	632	124.405	95.351	-7.414	1.00	90.58	A16S
ATOM	13129	C8	A	A	632	125.162	96.389	-7.670	1.00	90.58	A16S
ATOM	13130	C2*	A	A	632	127.489	97.030	-10.260	1.00	86.74	A16S
ATOM	13131	O2*	A	A	632	128.828	97.154	-10.684	1.00	86.74	A16S
ATOM	13132	C3*	A	A	632	126.683	98.284	-10.561	1.00	86.74	A16S
ATOM	13133	O3*	A	A	632	127.031	98.862	-11.805	1.00	86.74	A16S
ATOM	13134	P	G	A	633	126.038	98.681	-13.055	1.00	57.62	A16S
ATOM	13135	O1P	G	A	633	126.676	99.202	-14.298	1.00	66.40	A16S
ATOM	13136	O2P	G	A	633	124.704	99.196	-12.648	1.00	66.40	A16S
ATOM	13137	O5*	G	A	633	125.935	97.102	-13.225	1.00	57.62	A16S
ATOM	13138	C5*	G	A	633	127.113	96.300	-13.417	1.00	57.62	A16S
ATOM	13139	C4*	G	A	633	126.739	94.839	-13.454	1.00	57.62	A16S
ATOM	13140	O4*	G	A	633	126.431	94.360	-12.121	1.00	57.62	A16S
ATOM	13141	C1*	G	A	633	125.385	93.406	-12.193	1.00	57.62	A16S
ATOM	13142	N9	G	A	633	124.260	93.891	-11.399	1.00	66.40	A16S
ATOM	13143	C4	G	A	633	123.270	93.121	-10.842	1.00	66.40	A16S
ATOM	13144	N3	G	A	633	123.182	91.774	-10.906	1.00	66.40	A16S
ATOM	13145	C2	G	A	633	122.113	91.322	-10.281	1.00	66.40	A16S
ATOM	13146	N2	G	A	633	121.873	90.003	-10.232	1.00	66.40	A16S
ATOM	13147	N1	G	A	633	121.199	92.130	-9.655	1.00	66.40	A16S
ATOM	13148	C6	G	A	633	121.270	93.516	-9.583	1.00	66.40	A16S
ATOM	13149	O6	G	A	633	120.385	94.150	-8.999	1.00	66.40	A16S
ATOM	13150	C5	G	A	633	122.414	94.011	-10.235	1.00	66.40	A16S
ATOM	13151	N7	G	A	633	122.863	95.313	-10.391	1.00	66.40	A16S
ATOM	13152	C8	G	A	633	123.961	95.193	-11.083	1.00	66.40	A16S
ATOM	13153	C2*	G	A	633	125.001	93.236	-13.666	1.00	57.62	A16S
ATOM	13154	O2*	G	A	633	125.637	92.113	-14.240	1.00	57.62	A16S
ATOM	13155	C3*	G	A	633	125.493	94.538	-14.261	1.00	57.62	A16S
ATOM	13156	O3*	G	A	633	125.771	94.414	-15.628	1.00	57.62	A16S
ATOM	13157	P	C	A	634	124.701	94.956	-16.676	1.00	38.04	A16S
ATOM	13158	O1P	C	A	634	125.281	94.924	-18.053	1.00	62.85	A16S
ATOM	13159	O2P	C	A	634	124.187	96.236	-16.115	1.00	62.85	A16S
ATOM	13160	O5*	C	A	634	123.554	93.855	-16.613	1.00	38.04	A16S

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ATOM	13161	C5*	C	A	634	123.745	92.588	-17.261	1.00	38.04	A16S
ATOM	13162	C4*	C	A	634	122.686	91.599	-16.839	1.00	38.04	A16S
ATOM	13163	O4*	C	A	634	122.676	91.488	-15.395	1.00	38.04	A16S
ATOM	13164	C1*	C	A	634	121.362	91.243	-14.949	1.00	38.04	A16S
ATOM	13165	N1	C	A	634	120.954	92.364	-14.084	1.00	62.85	A16S
ATOM	13166	C6	C	A	634	121.664	93.531	-14.061	1.00	62.85	A16S
ATOM	13167	C2	C	A	634	119.818	92.223	-13.298	1.00	62.85	A16S
ATOM	13168	O2	C	A	634	119.223	91.138	-13.296	1.00	62.85	A16S
ATOM	13169	N3	C	A	634	119.396	93.262	-12.553	1.00	62.85	A16S
ATOM	13170	C4	C	A	634	120.077	94.403	-12.557	1.00	62.85	A16S
ATOM	13171	N4	C	A	634	119.606	95.413	-11.822	1.00	62.85	A16S
ATOM	13172	C5	C	A	634	121.266	94.564	-13.315	1.00	62.85	A16S
ATOM	13173	C2*	C	A	634	120.485	91.096	-16.193	1.00	38.04	A16S
ATOM	13174	O2*	C	A	634	120.473	89.733	-16.564	1.00	38.04	A16S
ATOM	13175	C3*	C	A	634	121.256	91.907	-17.214	1.00	38.04	A16S
ATOM	13176	O3*	C	A	634	120.988	91.427	-18.509	1.00	38.04	A16S
ATOM	13177	P	G	A	635	119.757	92.041	-19.338	1.00	49.77	A16S
ATOM	13178	O1P	G	A	635	119.792	91.510	-20.741	1.00	50.34	A16S
ATOM	13179	O2P	G	A	635	119.758	93.513	-19.115	1.00	50.34	A16S
ATOM	13180	O5*	G	A	635	118.469	91.458	-18.600	1.00	49.77	A16S
ATOM	13181	C5*	G	A	635	118.165	90.054	-18.647	1.00	49.77	A16S
ATOM	13182	C4*	G	A	635	116.778	89.792	-18.111	1.00	49.77	A16S
ATOM	13183	O4*	G	A	635	116.753	90.016	-16.680	1.00	49.77	A16S
ATOM	13184	C1*	G	A	635	115.477	90.491	-16.302	1.00	49.77	A16S
ATOM	13185	N9	G	A	635	115.631	91.791	-15.670	1.00	50.34	A16S
ATOM	13186	C4	G	A	635	114.672	92.456	-14.957	1.00	50.34	A16S
ATOM	13187	N3	G	A	635	113.433	92.004	-14.699	1.00	50.34	A16S
ATOM	13188	C2	G	A	635	112.732	92.874	-14.005	1.00	50.34	A16S
ATOM	13189	N2	G	A	635	111.470	92.578	-13.668	1.00	50.34	A16S
ATOM	13190	N1	G	A	635	113.213	94.100	-13.594	1.00	50.34	A16S
ATOM	13191	C6	G	A	635	114.488	94.589	-13.860	1.00	50.34	A16S
ATOM	13192	O6	G	A	635	114.822	95.720	-13.469	1.00	50.34	A16S
ATOM	13193	C5	G	A	635	115.248	93.656	-14.596	1.00	50.34	A16S
ATOM	13194	N7	G	A	635	116.553	93.731	-15.055	1.00	50.34	A16S
ATOM	13195	C8	G	A	635	116.736	92.601	-15.684	1.00	50.34	A16S
ATOM	13196	C2*	G	A	635	114.610	90.580	-17.557	1.00	49.77	A16S
ATOM	13197	O2*	G	A	635	113.829	89.409	-17.611	1.00	49.77	A16S
ATOM	13198	C3*	G	A	635	115.657	90.659	-18.664	1.00	49.77	A16S
ATOM	13199	O3*	G	A	635	115.171	90.158	-19.915	1.00	49.77	A16S
ATOM	13200	P	U	A	636	114.491	91.169	-20.971	1.00	56.24	A16S
ATOM	13201	O1P	U	A	636	114.067	90.411	-22.189	1.00	53.81	A16S
ATOM	13202	O2P	U	A	636	115.397	92.324	-21.111	1.00	53.81	A16S
ATOM	13203	O5*	U	A	636	113.195	91.702	-20.216	1.00	56.24	A16S
ATOM	13204	C5*	U	A	636	112.111	90.810	-19.912	1.00	56.24	A16S
ATOM	13205	C4*	U	A	636	110.975	91.555	-19.247	1.00	56.24	A16S
ATOM	13206	O4*	U	A	636	111.286	91.852	-17.861	1.00	56.24	A16S
ATOM	13207	C1*	U	A	636	110.683	93.082	-17.502	1.00	56.24	A16S
ATOM	13208	N1	U	A	636	111.738	94.049	-17.172	1.00	53.81	A16S
ATOM	13209	C6	U	A	636	113.023	93.910	-17.637	1.00	53.81	A16S
ATOM	13210	C2	U	A	636	111.378	95.134	-16.404	1.00	53.81	A16S
ATOM	13211	O2	U	A	636	110.259	95.269	-15.934	1.00	53.81	A16S
ATOM	13212	N3	U	A	636	112.371	96.059	-16.204	1.00	53.81	A16S
ATOM	13213	C4	U	A	636	113.655	96.009	-16.678	1.00	53.81	A16S
ATOM	13214	O4	U	A	636	114.371	96.999	-16.564	1.00	53.81	A16S
ATOM	13215	C5	U	A	636	113.968	94.829	-17.422	1.00	53.81	A16S
ATOM	13216	C2*	U	A	636	109.887	93.578	-18.710	1.00	56.24	A16S
ATOM	13217	O2*	U	A	636	108.556	93.117	-18.621	1.00	56.24	A16S
ATOM	13218	C3*	U	A	636	110.616	92.898	-19.849	1.00	56.24	A16S
ATOM	13219	O3*	U	A	636	109.781	92.766	-20.971	1.00	56.24	A16S
ATOM	13220	P	G	A	637	109.667	93.986	-21.994	1.00	58.81	A16S
ATOM	13221	O1P	G	A	637	108.861	93.534	-23.165	1.00	59.06	A16S
ATOM	13222	O2P	G	A	637	111.040	94.506	-22.203	1.00	59.06	A16S
ATOM	13223	O5*	G	A	637	108.860	95.088	-21.170	1.00	58.81	A16S
ATOM	13224	C5*	G	A	637	107.467	94.912	-20.866	1.00	58.81	A16S
ATOM	13225	C4*	G	A	637	106.917	96.148	-20.196	1.00	58.81	A16S
ATOM	13226	O4*	G	A	637	107.522	96.303	-18.890	1.00	58.81	A16S
ATOM	13227	C1*	G	A	637	107.689	97.680	-18.596	1.00	58.81	A16S
ATOM	13228	N9	G	A	637	109.114	97.949	-18.471	1.00	59.06	A16S
ATOM	13229	C4	G	A	637	109.694	98.998	-17.808	1.00	59.06	A16S
ATOM	13230	N3	G	A	637	109.046	99.948	-17.106	1.00	59.06	A16S
ATOM	13231	C2	G	A	637	109.882	100.847	-16.606	1.00	59.06	A16S
ATOM	13232	N2	G	A	637	109.417	101.858	-15.875	1.00	59.06	A16S
ATOM	13233	N1	G	A	637	111.241	100.818	-16.785	1.00	59.06	A16S
ATOM	13234	C6	G	A	637	111.930	99.846	-17.505	1.00	59.06	A16S
ATOM	13235	O6	G	A	637	113.167	99.910	-17.611	1.00	59.06	A16S
ATOM	13236	C5	G	A	637	111.047	98.873	-18.040	1.00	59.06	A16S
ATOM	13237	N7	G	A	637	111.314	97.749	-18.806	1.00	59.06	A16S

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ATOM	13238	C8	G	A	637	110.141	97.228	-19.030	1.00	59.06	A16S
ATOM	13239	C2*	G	A	637	107.102	98.470	-19.761	1.00	58.81	A16S
ATOM	13240	O2*	G	A	637	105.772	98.813	-19.457	1.00	58.81	A16S
ATOM	13241	C3*	G	A	637	107.204	97.462	-20.896	1.00	58.81	A16S
ATOM	13242	O3*	G	A	637	106.290	97.728	-21.945	1.00	58.81	A16S
ATOM	13243	P	G	A	638	106.733	98.698	-23.148	1.00	52.62	A16S
ATOM	13244	O1P	G	A	638	108.100	98.275	-23.540	1.00	64.82	A16S
ATOM	13245	O2P	G	A	638	105.647	98.694	-24.170	1.00	64.82	A16S
ATOM	13246	O5*	G	A	638	106.820	100.143	-22.461	1.00	52.62	A16S
ATOM	13247	C5*	G	A	638	105.652	100.732	-21.840	1.00	52.62	A16S
ATOM	13248	C4*	G	A	638	106.003	102.005	-21.094	1.00	52.62	A16S
ATOM	13249	O4*	G	A	638	106.824	101.724	-19.925	1.00	52.62	A16S
ATOM	13250	C1*	G	A	638	107.690	102.832	-19.668	1.00	52.62	A16S
ATOM	13251	N9	G	A	638	109.083	102.391	-19.774	1.00	64.82	A16S
ATOM	13252	C4	G	A	638	110.207	103.090	-19.364	1.00	64.82	A16S
ATOM	13253	N3	G	A	638	110.223	104.295	-18.754	1.00	64.82	A16S
ATOM	13254	C2	G	A	638	111.456	104.715	-18.521	1.00	64.82	A16S
ATOM	13255	N2	G	A	638	111.664	105.889	-17.929	1.00	64.82	A16S
ATOM	13256	N1	G	A	638	112.579	104.016	-18.854	1.00	64.82	A16S
ATOM	13257	C6	G	A	638	112.592	102.777	-19.484	1.00	64.82	A16S
ATOM	13258	O6	G	A	638	113.672	102.234	-19.754	1.00	64.82	A16S
ATOM	13259	C5	G	A	638	111.278	102.308	-19.741	1.00	64.82	A16S
ATOM	13260	N7	G	A	638	110.846	101.137	-20.350	1.00	64.82	A16S
ATOM	13261	C8	G	A	638	109.543	101.223	-20.339	1.00	64.82	A16S
ATOM	13262	C2*	G	A	638	107.406	103.890	-20.736	1.00	52.62	A16S
ATOM	13263	O2*	G	A	638	106.546	104.907	-20.258	1.00	52.62	A16S
ATOM	13264	C3*	G	A	638	106.800	103.049	-21.851	1.00	52.62	A16S
ATOM	13265	O3*	G	A	638	106.036	103.836	-22.733	1.00	52.62	A16S
ATOM	13266	P	G	A	639	106.741	104.432	-24.049	1.00	59.62	A16S
ATOM	13267	O1P	G	A	639	107.554	103.333	-24.656	1.00	52.66	A16S
ATOM	13268	O2P	G	A	639	105.670	105.076	-24.860	1.00	52.66	A16S
ATOM	13269	O5*	G	A	639	107.720	105.563	-23.475	1.00	59.62	A16S
ATOM	13270	C5*	G	A	639	107.188	106.665	-22.708	1.00	59.62	A16S
ATOM	13271	C4*	G	A	639	108.292	107.552	-22.160	1.00	59.62	A16S
ATOM	13272	O4*	G	A	639	109.102	106.836	-21.192	1.00	59.62	A16S
ATOM	13273	C1*	G	A	639	110.416	107.382	-21.171	1.00	59.62	A16S
ATOM	13274	N9	G	A	639	111.382	106.336	-21.510	1.00	52.66	A16S
ATOM	13275	C4	G	A	639	112.755	106.437	-21.421	1.00	52.66	A16S
ATOM	13276	N3	G	A	639	113.447	107.515	-21.003	1.00	52.66	A16S
ATOM	13277	C2	G	A	639	114.748	107.314	-21.047	1.00	52.66	A16S
ATOM	13278	N2	G	A	639	115.585	108.288	-20.698	1.00	52.66	A16S
ATOM	13279	N1	G	A	639	115.327	106.147	-21.444	1.00	52.66	A16S
ATOM	13280	C6	G	A	639	114.640	105.022	-21.874	1.00	52.66	A16S
ATOM	13281	O6	G	A	639	115.265	104.012	-22.203	1.00	52.66	A16S
ATOM	13282	C5	G	A	639	113.240	105.227	-21.858	1.00	52.66	A16S
ATOM	13283	N7	G	A	639	112.200	104.379	-22.221	1.00	52.66	A16S
ATOM	13284	C8	G	A	639	111.119	105.075	-21.993	1.00	52.66	A16S
ATOM	13285	C2*	G	A	639	110.454	108.519	-22.188	1.00	59.62	A16S
ATOM	13286	O2*	G	A	639	110.234	109.734	-21.506	1.00	59.62	A16S
ATOM	13287	C3*	G	A	639	109.310	108.138	-23.122	1.00	59.62	A16S
ATOM	13288	O3*	G	A	639	108.821	109.271	-23.810	1.00	59.62	A16S
ATOM	13289	P	A	A	640	109.558	109.757	-25.153	1.00	50.36	A16S
ATOM	13290	O1P	A	A	640	108.783	110.920	-25.681	1.00	50.53	A16S
ATOM	13291	O2P	A	A	640	109.767	108.560	-26.018	1.00	50.53	A16S
ATOM	13292	O5*	A	A	640	110.961	110.319	-24.637	1.00	50.36	A16S
ATOM	13293	C5*	A	A	640	111.007	111.515	-23.843	1.00	50.36	A16S
ATOM	13294	C4*	A	A	640	112.428	111.988	-23.666	1.00	50.36	A16S
ATOM	13295	O4*	A	A	640	113.154	111.050	-22.842	1.00	50.36	A16S
ATOM	13296	C1*	A	A	640	114.493	110.957	-23.290	1.00	50.36	A16S
ATOM	13297	N9	A	A	640	114.725	109.580	-23.748	1.00	50.53	A16S
ATOM	13298	C4	A	A	640	115.939	108.946	-23.883	1.00	50.53	A16S
ATOM	13299	N3	A	A	640	117.157	109.443	-23.614	1.00	50.53	A16S
ATOM	13300	C2	A	A	640	118.094	108.551	-23.884	1.00	50.53	A16S
ATOM	13301	N1	A	A	640	117.965	107.313	-24.352	1.00	50.53	A16S
ATOM	13302	C6	A	A	640	116.725	106.841	-24.603	1.00	50.53	A16S
ATOM	13303	N6	A	A	640	116.585	105.593	-25.061	1.00	50.53	A16S
ATOM	13304	C5	A	A	640	115.651	107.685	-24.365	1.00	50.53	A16S
ATOM	13305	N7	A	A	640	114.288	107.512	-24.520	1.00	50.53	A16S
ATOM	13306	C8	A	A	640	113.783	108.660	-24.141	1.00	50.53	A16S
ATOM	13307	C2*	A	A	640	114.675	111.998	-24.397	1.00	50.36	A16S
ATOM	13308	O2*	A	A	640	115.126	113.210	-23.820	1.00	50.36	A16S
ATOM	13309	C3*	A	A	640	113.257	112.130	-24.929	1.00	50.36	A16S
ATOM	13310	O3*	A	A	640	113.050	113.402	-25.532	1.00	50.36	A16S
ATOM	13311	P	U	A	641	113.007	113.529	-27.136	1.00	60.21	A16S
ATOM	13312	O1P	U	A	641	112.645	114.941	-27.448	1.00	50.65	A16S
ATOM	13313	O2P	U	A	641	112.179	112.406	-27.668	1.00	50.65	A16S
ATOM	13314	O5*	U	A	641	114.521	113.322	-27.574	1.00	60.21	A16S

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ATOM	13315	C5*	U	A	641	115.542	114.140	-26.993	1.00	60.21	A16S
ATOM	13316	C4*	U	A	641	116.895	113.736	-27.502	1.00	60.21	A16S
ATOM	13317	O4*	U	A	641	117.227	112.412	-27.007	1.00	60.21	A16S
ATOM	13318	C1*	U	A	641	117.618	111.589	-28.082	1.00	60.21	A16S
ATOM	13319	N1	U	A	641	117.074	110.241	-27.855	1.00	50.65	A16S
ATOM	13320	C6	U	A	641	115.720	110.025	-27.855	1.00	50.65	A16S
ATOM	13321	C2	U	A	641	117.958	109.190	-27.678	1.00	50.65	A16S
ATOM	13322	O2	U	A	641	119.168	109.337	-27.588	1.00	50.65	A16S
ATOM	13323	N3	U	A	641	117.367	107.954	-27.600	1.00	50.65	A16S
ATOM	13324	C4	U	A	641	116.017	107.672	-27.660	1.00	50.65	A16S
ATOM	13325	O4	U	A	641	115.648	106.508	-27.790	1.00	50.65	A16S
ATOM	13326	C5	U	A	641	115.182	108.813	-27.764	1.00	50.65	A16S
ATOM	13327	C2*	U	A	641	117.047	112.226	-29.352	1.00	60.21	A16S
ATOM	13328	O2*	U	A	641	117.861	111.919	-30.467	1.00	60.21	A16S
ATOM	13329	C3*	U	A	641	117.062	113.712	-29.015	1.00	60.21	A16S
ATOM	13330	O3*	U	A	641	118.318	114.263	-29.356	1.00	60.21	A16S
ATOM	13331	P	A	A	642	118.397	115.742	-29.983	1.00	50.66	A16S
ATOM	13332	O1P	A	A	642	117.736	116.716	-29.057	1.00	45.35	A16S
ATOM	13333	O2P	A	A	642	117.950	115.658	-31.409	1.00	45.35	A16S
ATOM	13334	O5*	A	A	642	119.959	116.050	-29.944	1.00	50.66	A16S
ATOM	13335	C5*	A	A	642	120.447	117.335	-29.535	1.00	50.66	A16S
ATOM	13336	C4*	A	A	642	121.707	117.175	-28.721	1.00	50.66	A16S
ATOM	13337	O4*	A	A	642	121.376	116.638	-27.420	1.00	50.66	A16S
ATOM	13338	C1*	A	A	642	122.415	115.785	-26.978	1.00	50.66	A16S
ATOM	13339	N9	A	A	642	121.852	114.445	-26.790	1.00	45.35	A16S
ATOM	13340	C4	A	A	642	122.424	113.421	-26.080	1.00	45.35	A16S
ATOM	13341	N3	A	A	642	123.582	113.451	-25.405	1.00	45.35	A16S
ATOM	13342	C2	A	A	642	123.823	112.271	-24.855	1.00	45.35	A16S
ATOM	13343	N1	A	A	642	123.097	111.148	-24.903	1.00	45.35	A16S
ATOM	13344	C6	A	A	642	121.946	111.158	-25.597	1.00	45.35	A16S
ATOM	13345	N6	A	A	642	121.234	110.036	-25.667	1.00	45.35	A16S
ATOM	13346	C5	A	A	642	121.571	112.348	-26.214	1.00	45.35	A16S
ATOM	13347	N7	A	A	642	120.470	112.688	-26.977	1.00	45.35	A16S
ATOM	13348	C8	A	A	642	120.680	113.940	-27.289	1.00	45.35	A16S
ATOM	13349	C2*	A	A	642	123.522	115.822	-28.035	1.00	50.66	A16S
ATOM	13350	O2*	A	A	642	124.474	116.807	-27.694	1.00	50.66	A16S
ATOM	13351	C3*	A	A	642	122.739	116.210	-29.275	1.00	50.66	A16S
ATOM	13352	O3*	A	A	642	123.546	116.802	-30.266	1.00	50.66	A16S
ATOM	13353	P	C	A	643	124.054	115.909	-31.498	1.00	47.93	A16S
ATOM	13354	O1P	C	A	643	122.954	115.034	-31.989	1.00	50.13	A16S
ATOM	13355	O2P	C	A	643	124.721	116.827	-32.443	1.00	50.13	A16S
ATOM	13356	O5*	C	A	643	125.152	114.966	-30.828	1.00	47.93	A16S
ATOM	13357	C5*	C	A	643	126.277	115.524	-30.105	1.00	47.93	A16S
ATOM	13358	C4*	C	A	643	127.070	114.425	-29.420	1.00	47.93	A16S
ATOM	13359	O4*	C	A	643	126.360	113.939	-28.249	1.00	47.93	A16S
ATOM	13360	C1*	C	A	643	126.582	112.539	-28.098	1.00	47.93	A16S
ATOM	13361	N1	C	A	643	125.288	111.835	-28.250	1.00	50.13	A16S
ATOM	13362	C6	C	A	643	124.272	112.385	-28.983	1.00	50.13	A16S
ATOM	13363	C2	C	A	643	125.121	110.587	-27.649	1.00	50.13	A16S
ATOM	13364	O2	C	A	643	126.051	110.111	-26.975	1.00	50.13	A16S
ATOM	13365	N3	C	A	643	123.951	109.929	-27.816	1.00	50.13	A16S
ATOM	13366	C4	C	A	643	122.974	110.473	-28.545	1.00	50.13	A16S
ATOM	13367	N4	C	A	643	121.843	109.785	-28.692	1.00	50.13	A16S
ATOM	13368	C5	C	A	643	123.112	111.743	-29.155	1.00	50.13	A16S
ATOM	13369	C2*	C	A	643	127.574	112.111	-29.181	1.00	47.93	A16S
ATOM	13370	O2*	C	A	643	128.909	112.138	-28.703	1.00	47.93	A16S
ATOM	13371	C3*	C	A	643	127.322	113.169	-30.241	1.00	47.93	A16S
ATOM	13372	O3*	C	A	643	128.397	113.263	-31.136	1.00	47.93	A16S
ATOM	13373	P	G	A	644	128.319	112.447	-32.504	1.00	45.34	A16S
ATOM	13374	O1P	G	A	644	129.464	112.911	-33.348	1.00	65.00	A16S
ATOM	13375	O2P	G	A	644	126.921	112.563	-33.018	1.00	65.00	A16S
ATOM	13376	O5*	G	A	644	128.525	110.926	-32.063	1.00	45.34	A16S
ATOM	13377	C5*	G	A	644	129.826	110.439	-31.681	1.00	45.34	A16S
ATOM	13378	C4*	G	A	644	129.788	108.949	-31.438	1.00	45.34	A16S
ATOM	13379	O4*	G	A	644	129.033	108.669	-30.232	1.00	45.34	A16S
ATOM	13380	C1*	G	A	644	128.349	107.436	-30.381	1.00	45.34	A16S
ATOM	13381	N9	G	A	644	126.907	107.662	-30.377	1.00	65.00	A16S
ATOM	13382	C4	G	A	644	125.963	106.673	-30.404	1.00	65.00	A16S
ATOM	13383	N3	G	A	644	126.214	105.356	-30.386	1.00	65.00	A16S
ATOM	13384	C2	G	A	644	125.113	104.646	-30.457	1.00	65.00	A16S
ATOM	13385	N2	G	A	644	125.186	103.319	-30.434	1.00	65.00	A16S
ATOM	13386	N1	G	A	644	123.861	105.184	-30.551	1.00	65.00	A16S
ATOM	13387	C6	G	A	644	123.580	106.541	-30.576	1.00	65.00	A16S
ATOM	13388	O6	G	A	644	122.415	106.923	-30.680	1.00	65.00	A16S
ATOM	13389	C5	G	A	644	124.754	107.317	-30.483	1.00	65.00	A16S
ATOM	13390	N7	G	A	644	124.927	108.693	-30.475	1.00	65.00	A16S
ATOM	13391	C8	G	A	644	126.221	108.853	-30.400	1.00	65.00	A16S

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ATOM	13392	C2*	G	A	644	128.723	106.862	-31.743	1.00	45.34	A16S
ATOM	13393	O2*	G	A	644	129.787	105.957	-31.589	1.00	45.34	A16S
ATOM	13394	C3*	G	A	644	129.110	108.112	-32.510	1.00	45.34	A16S
ATOM	13395	O3*	G	A	644	129.954	107.784	-33.601	1.00	45.34	A16S
ATOM	13396	P	C	A	645	129.310	107.545	-35.059	1.00	43.25	A16S
ATOM	13397	O1P	C	A	645	130.418	107.227	-35.993	1.00	53.56	A16S
ATOM	13398	O2P	C	A	645	128.402	108.690	-35.354	1.00	53.56	A16S
ATOM	13399	O5*	C	A	645	128.413	106.240	-34.897	1.00	43.25	A16S
ATOM	13400	C5*	C	A	645	128.998	104.990	-34.509	1.00	43.25	A16S
ATOM	13401	C4*	C	A	645	127.955	103.891	-34.505	1.00	43.25	A16S
ATOM	13402	O4*	C	A	645	126.976	104.147	-33.468	1.00	43.25	A16S
ATOM	13403	C1*	C	A	645	125.696	103.723	-33.902	1.00	43.25	A16S
ATOM	13404	N1	C	A	645	124.801	104.893	-33.921	1.00	53.56	A16S
ATOM	13405	C6	C	A	645	125.211	106.108	-33.448	1.00	53.56	A16S
ATOM	13406	C2	C	A	645	123.524	104.744	-34.448	1.00	53.56	A16S
ATOM	13407	O2	C	A	645	123.169	103.617	-34.839	1.00	53.56	A16S
ATOM	13408	N3	C	A	645	122.708	105.821	-34.516	1.00	53.56	A16S
ATOM	13409	C4	C	A	645	123.125	107.002	-34.065	1.00	53.56	A16S
ATOM	13410	N4	C	A	645	122.296	108.039	-34.162	1.00	53.56	A16S
ATOM	13411	C5	C	A	645	124.412	107.175	-33.499	1.00	53.56	A16S
ATOM	13412	C2*	C	A	645	125.864	103.079	-35.280	1.00	43.25	A16S
ATOM	13413	O2*	C	A	645	125.979	101.683	-35.107	1.00	43.25	A16S
ATOM	13414	C3*	C	A	645	127.147	103.730	-35.781	1.00	43.25	A16S
ATOM	13415	O3*	C	A	645	127.838	102.912	-36.719	1.00	43.25	A16S
ATOM	13416	P	U	A	646	127.690	103.206	-38.296	1.00	53.59	A16S
ATOM	13417	O1P	U	A	646	128.570	102.247	-39.021	1.00	69.77	A16S
ATOM	13418	O2P	U	A	646	127.822	104.671	-38.567	1.00	69.77	A16S
ATOM	13419	O5*	U	A	646	126.195	102.758	-38.588	1.00	53.59	A16S
ATOM	13420	C5*	U	A	646	125.742	101.446	-38.225	1.00	53.59	A16S
ATOM	13421	C4*	U	A	646	124.267	101.341	-38.465	1.00	53.59	A16S
ATOM	13422	O4*	U	A	646	123.547	102.081	-37.447	1.00	53.59	A16S
ATOM	13423	C1*	U	A	646	122.426	102.726	-38.035	1.00	53.59	A16S
ATOM	13424	N1	U	A	646	122.562	104.181	-37.864	1.00	69.77	A16S
ATOM	13425	C6	U	A	646	123.781	104.790	-37.671	1.00	69.77	A16S
ATOM	13426	C2	U	A	646	121.412	104.923	-37.921	1.00	69.77	A16S
ATOM	13427	O2	U	A	646	120.319	104.419	-38.072	1.00	69.77	A16S
ATOM	13428	N3	U	A	646	121.585	106.276	-37.798	1.00	69.77	A16S
ATOM	13429	C4	U	A	646	122.769	106.949	-37.624	1.00	69.77	A16S
ATOM	13430	O4	U	A	646	122.766	108.180	-37.608	1.00	69.77	A16S
ATOM	13431	C5	U	A	646	123.918	106.114	-37.552	1.00	69.77	A16S
ATOM	13432	C2*	U	A	646	122.379	102.336	-39.514	1.00	53.59	A16S
ATOM	13433	O2*	U	A	646	121.484	101.255	-39.705	1.00	53.59	A16S
ATOM	13434	C3*	U	A	646	123.833	101.971	-39.776	1.00	53.59	A16S
ATOM	13435	O3*	U	A	646	124.022	101.102	-40.873	1.00	53.59	A16S
ATOM	13436	P	C	A	647	124.306	101.718	-42.324	1.00	59.65	A16S
ATOM	13437	O1P	C	A	647	124.646	100.566	-43.198	1.00	50.15	A16S
ATOM	13438	O2P	C	A	647	125.243	102.873	-42.204	1.00	50.15	A16S
ATOM	13439	O5*	C	A	647	122.878	102.234	-42.790	1.00	59.65	A16S
ATOM	13440	C5*	C	A	647	121.815	101.291	-42.975	1.00	59.65	A16S
ATOM	13441	C4*	C	A	647	120.517	102.001	-43.223	1.00	59.65	A16S
ATOM	13442	O4*	C	A	647	120.086	102.698	-42.030	1.00	59.65	A16S
ATOM	13443	C1*	C	A	647	119.394	103.876	-42.399	1.00	59.65	A16S
ATOM	13444	N1	C	A	647	120.101	105.044	-41.852	1.00	50.15	A16S
ATOM	13445	C6	C	A	647	121.442	105.011	-41.598	1.00	50.15	A16S
ATOM	13446	C2	C	A	647	119.366	106.207	-41.607	1.00	50.15	A16S
ATOM	13447	O2	C	A	647	118.144	106.197	-41.826	1.00	50.15	A16S
ATOM	13448	N3	C	A	647	119.997	107.305	-41.138	1.00	50.15	A16S
ATOM	13449	C4	C	A	647	121.307	107.268	-40.905	1.00	50.15	A16S
ATOM	13450	N4	C	A	647	121.895	108.381	-40.452	1.00	50.15	A16S
ATOM	13451	C5	C	A	647	122.079	106.089	-41.127	1.00	50.15	A16S
ATOM	13452	C2*	C	A	647	119.360	103.936	-43.925	1.00	59.65	A16S
ATOM	13453	O2*	C	A	647	118.147	103.385	-44.395	1.00	59.65	A16S
ATOM	13454	C3*	C	A	647	120.560	103.078	-44.284	1.00	59.65	A16S
ATOM	13455	O3*	C	A	647	120.464	102.550	-45.587	1.00	59.65	A16S
ATOM	13456	P	A	A	648	121.142	103.346	-46.799	1.00	63.78	A16S
ATOM	13457	O1P	A	A	648	121.049	102.465	-48.005	1.00	59.54	A16S
ATOM	13458	O2P	A	A	648	122.472	103.834	-46.337	1.00	59.54	A16S
ATOM	13459	O5*	A	A	648	120.193	104.613	-46.992	1.00	63.78	A16S
ATOM	13460	C5*	A	A	648	118.852	104.443	-47.468	1.00	63.78	A16S
ATOM	13461	C4*	A	A	648	118.086	105.736	-47.380	1.00	63.78	A16S
ATOM	13462	O4*	A	A	648	117.951	106.144	-45.993	1.00	63.78	A16S
ATOM	13463	C1*	A	A	648	117.880	107.558	-45.922	1.00	63.78	A16S
ATOM	13464	N9	A	A	648	118.957	108.047	-45.059	1.00	59.54	A16S
ATOM	13465	C4	A	A	648	119.034	109.315	-44.530	1.00	59.54	A16S
ATOM	13466	N3	A	A	648	118.138	110.309	-44.659	1.00	59.54	A16S
ATOM	13467	C2	A	A	648	118.561	111.408	-44.032	1.00	59.54	A16S
ATOM	13468	N1	A	A	648	119.694	111.616	-43.346	1.00	59.54	A16S

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ATOM	13469	C6	A	A 648	120.573	110.597	-43.236	1.00	59.54	A16S
ATOM	13470	N6	A	A 648	121.702	110.803	-42.565	1.00	59.54	A16S
ATOM	13471	C5	A	A 648	120.239	109.369	-43.848	1.00	59.54	A16S
ATOM	13472	N7	A	A 648	120.898	108.145	-43.915	1.00	59.54	A16S
ATOM	13473	C8	A	A 648	120.096	107.395	-44.637	1.00	59.54	A16S
ATOM	13474	C2*	A	A 648	118.014	108.100	-47.348	1.00	63.78	A16S
ATOM	13475	O2*	A	A 648	116.733	108.368	-47.885	1.00	63.78	A16S
ATOM	13476	C3*	A	A 648	118.699	106.942	-48.059	1.00	63.78	A16S
ATOM	13477	O3*	A	A 648	118.449	106.964	-49.451	1.00	63.78	A16S
ATOM	13478	P	G	A 649	119.463	107.758	-50.422	1.00	67.49	A16S
ATOM	13479	O1P	G	A 649	119.006	107.538	-51.828	1.00	61.28	A16S
ATOM	13480	O2P	G	A 649	120.863	107.425	-50.047	1.00	61.28	A16S
ATOM	13481	O5*	G	A 649	119.243	109.290	-50.047	1.00	67.49	A16S
ATOM	13482	C5*	G	A 649	117.992	109.922	-50.325	1.00	67.49	A16S
ATOM	13483	C4*	G	A 649	118.010	111.355	-49.875	1.00	67.49	A16S
ATOM	13484	O4*	G	A 649	118.115	111.426	-48.432	1.00	67.49	A16S
ATOM	13485	C1*	G	A 649	118.700	112.661	-48.073	1.00	67.49	A16S
ATOM	13486	N9	G	A 649	119.853	112.437	-47.213	1.00	61.28	A16S
ATOM	13487	C4	G	A 649	120.411	113.386	-46.407	1.00	61.28	A16S
ATOM	13488	N3	G	A 649	119.951	114.641	-46.244	1.00	61.28	A16S
ATOM	13489	C2	G	A 649	120.703	115.341	-45.417	1.00	61.28	A16S
ATOM	13490	N2	G	A 649	120.365	116.601	-45.124	1.00	61.28	A16S
ATOM	13491	N1	G	A 649	121.835	114.855	-44.812	1.00	61.28	A16S
ATOM	13492	C6	G	A 649	122.336	113.567	-44.970	1.00	61.28	A16S
ATOM	13493	O6	G	A 649	123.379	113.239	-44.390	1.00	61.28	A16S
ATOM	13494	C5	G	A 649	121.515	112.791	-45.844	1.00	61.28	A16S
ATOM	13495	N7	G	A 649	121.630	111.472	-46.265	1.00	61.28	A16S
ATOM	13496	C8	G	A 649	120.615	111.304	-47.070	1.00	61.28	A16S
ATOM	13497	C2*	G	A 649	119.138	113.359	-49.356	1.00	67.49	A16S
ATOM	13498	O2*	G	A 649	118.174	114.324	-49.707	1.00	67.49	A16S
ATOM	13499	C3*	G	A 649	119.172	112.203	-50.340	1.00	67.49	A16S
ATOM	13500	O3*	G	A 649	119.039	112.656	-51.671	1.00	67.49	A16S
ATOM	13501	P	G	A 650	120.368	113.006	-52.510	1.00	69.83	A16S
ATOM	13502	O1P	G	A 650	119.936	113.307	-53.909	1.00	69.37	A16S
ATOM	13503	O2P	G	A 650	121.384	111.944	-52.265	1.00	69.37	A16S
ATOM	13504	O5*	G	A 650	120.923	114.332	-51.823	1.00	69.83	A16S
ATOM	13505	C5*	G	A 650	120.143	115.521	-51.851	1.00	69.83	A16S
ATOM	13506	C4*	G	A 650	120.739	116.577	-50.961	1.00	69.83	A16S
ATOM	13507	O4*	G	A 650	120.775	116.130	-49.583	1.00	69.83	A16S
ATOM	13508	C1*	G	A 650	121.749	116.878	-48.883	1.00	69.83	A16S
ATOM	13509	N9	G	A 650	122.687	115.979	-48.223	1.00	69.37	A16S
ATOM	13510	C4	G	A 650	123.690	116.378	-47.375	1.00	69.37	A16S
ATOM	13511	N3	G	A 650	123.917	117.640	-46.966	1.00	69.37	A16S
ATOM	13512	C2	G	A 650	124.978	117.726	-46.194	1.00	69.37	A16S
ATOM	13513	N2	G	A 650	125.329	118.903	-45.685	1.00	69.37	A16S
ATOM	13514	N1	G	A 650	125.769	116.663	-45.861	1.00	69.37	A16S
ATOM	13515	C6	G	A 650	125.561	115.352	-46.269	1.00	69.37	A16S
ATOM	13516	O6	G	A 650	126.350	114.467	-45.919	1.00	69.37	A16S
ATOM	13517	C5	G	A 650	124.402	115.239	-47.087	1.00	69.37	A16S
ATOM	13518	N7	G	A 650	123.823	114.129	-47.696	1.00	69.37	A16S
ATOM	13519	C8	G	A 650	122.801	114.616	-48.350	1.00	69.37	A16S
ATOM	13520	C2*	G	A 650	122.488	117.735	-49.910	1.00	69.83	A16S
ATOM	13521	O2*	G	A 650	121.936	119.033	-49.870	1.00	69.83	A16S
ATOM	13522	C3*	G	A 650	122.163	117.022	-51.216	1.00	69.83	A16S
ATOM	13523	O3*	G	A 650	122.247	117.914	-52.317	1.00	69.83	A16S
ATOM	13524	P	C	A 651	123.661	118.133	-53.054	1.00	48.92	A16S
ATOM	13525	O1P	C	A 651	123.434	119.118	-54.150	1.00	66.21	A16S
ATOM	13526	O2P	C	A 651	124.243	116.800	-53.376	1.00	66.21	A16S
ATOM	13527	O5*	C	A 651	124.567	118.836	-51.946	1.00	48.92	A16S
ATOM	13528	C5*	C	A 651	124.113	120.036	-51.323	1.00	48.92	A16S
ATOM	13529	C4*	C	A 651	125.183	120.618	-50.448	1.00	48.92	A16S
ATOM	13530	O4*	C	A 651	125.391	119.813	-49.269	1.00	48.92	A16S
ATOM	13531	C1*	C	A 651	126.730	119.938	-48.844	1.00	48.92	A16S
ATOM	13532	N1	C	A 651	127.298	118.587	-48.670	1.00	66.21	A16S
ATOM	13533	C6	C	A 651	126.854	117.529	-49.420	1.00	66.21	A16S
ATOM	13534	C2	C	A 651	128.308	118.399	-47.716	1.00	66.21	A16S
ATOM	13535	O2	C	A 651	128.701	119.378	-47.054	1.00	66.21	A16S
ATOM	13536	N3	C	A 651	128.832	117.160	-47.544	1.00	66.21	A16S
ATOM	13537	C4	C	A 651	128.393	116.139	-48.286	1.00	66.21	A16S
ATOM	13538	N4	C	A 651	128.944	114.941	-48.091	1.00	66.21	A16S
ATOM	13539	C5	C	A 651	127.371	116.302	-49.263	1.00	66.21	A16S
ATOM	13540	C2*	C	A 651	127.463	120.825	-49.856	1.00	48.92	A16S
ATOM	13541	O2*	C	A 651	127.528	122.127	-49.331	1.00	48.92	A16S
ATOM	13542	C3*	C	A 651	126.548	120.744	-51.077	1.00	48.92	A16S
ATOM	13543	O3*	C	A 651	126.556	121.911	-51.890	1.00	48.92	A16S
ATOM	13544	P	U	A 652	127.823	122.229	-52.816	1.00	61.73	A16S
ATOM	13545	O1P	U	A 652	127.557	123.441	-53.626	1.00	58.19	A16S

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ATOM	13546	O2P	U	A	652	128.252	120.979	-53.495	1.00	58.19	A16S
ATOM	13547	O5*	U	A	652	128.889	122.652	-51.731	1.00	61.73	A16S
ATOM	13548	C5*	U	A	652	130.123	123.186	-52.131	1.00	61.73	A16S
ATOM	13549	C4*	U	A	652	131.095	123.122	-50.993	1.00	61.73	A16S
ATOM	13550	O4*	U	A	652	130.885	121.916	-50.214	1.00	61.73	A16S
ATOM	13551	C1*	U	A	652	132.067	121.148	-50.222	1.00	61.73	A16S
ATOM	13552	N1	U	A	652	131.709	119.725	-50.237	1.00	58.19	A16S
ATOM	13553	C6	U	A	652	130.716	119.224	-51.049	1.00	58.19	A16S
ATOM	13554	C2	U	A	652	132.408	118.901	-49.383	1.00	58.19	A16S
ATOM	13555	O2	U	A	652	133.319	119.307	-48.676	1.00	58.19	A16S
ATOM	13556	N3	U	A	652	132.012	117.586	-49.390	1.00	58.19	A16S
ATOM	13557	C4	U	A	652	131.019	117.021	-50.158	1.00	58.19	A16S
ATOM	13558	O4	U	A	652	130.763	115.826	-50.028	1.00	58.19	A16S
ATOM	13559	C5	U	A	652	130.357	117.932	-51.037	1.00	58.19	A16S
ATOM	13560	C2*	U	A	652	132.878	121.604	-51.430	1.00	61.73	A16S
ATOM	13561	O2*	U	A	652	134.254	121.363	-51.227	1.00	61.73	A16S
ATOM	13562	C3*	U	A	652	132.530	123.086	-51.478	1.00	61.73	A16S
ATOM	13563	O3*	U	A	652	133.308	123.805	-50.558	1.00	61.73	A16S
ATOM	13564	P	A	A	653	134.497	124.717	-51.092	1.00	67.20	A16S
ATOM	13565	O1P	A	A	653	133.982	126.106	-51.089	1.00	65.18	A16S
ATOM	13566	O2P	A	A	653	134.992	124.116	-52.364	1.00	65.18	A16S
ATOM	13567	O5*	A	A	653	135.595	124.561	-49.954	1.00	67.20	A16S
ATOM	13568	C5*	A	A	653	135.922	123.263	-49.443	1.00	67.20	A16S
ATOM	13569	C4*	A	A	653	136.697	123.389	-48.162	1.00	67.20	A16S
ATOM	13570	O4*	A	A	653	135.889	124.059	-47.153	1.00	67.20	A16S
ATOM	13571	C1*	A	A	653	135.833	123.259	-45.987	1.00	67.20	A16S
ATOM	13572	N9	A	A	653	134.543	123.462	-45.322	1.00	65.18	A16S
ATOM	13573	C4	A	A	653	133.323	122.962	-45.702	1.00	65.18	A16S
ATOM	13574	N3	A	A	653	133.058	122.187	-46.769	1.00	65.18	A16S
ATOM	13575	C2	A	A	653	131.757	121.891	-46.823	1.00	65.18	A16S
ATOM	13576	N1	A	A	653	130.765	122.250	-45.986	1.00	65.18	A16S
ATOM	13577	C6	A	A	653	131.071	123.024	-44.918	1.00	65.18	A16S
ATOM	13578	N6	A	A	653	130.090	123.363	-44.074	1.00	65.18	A16S
ATOM	13579	C5	A	A	653	132.417	123.418	-44.757	1.00	65.18	A16S
ATOM	13580	N7	A	A	653	133.054	124.198	-43.804	1.00	65.18	A16S
ATOM	13581	C8	A	A	653	134.308	124.191	-44.181	1.00	65.18	A16S
ATOM	13582	C2*	A	A	653	136.109	121.830	-46.450	1.00	67.20	A16S
ATOM	13583	O2*	A	A	653	136.583	121.047	-45.378	1.00	67.20	A16S
ATOM	13584	C3*	A	A	653	137.133	122.060	-47.561	1.00	67.20	A16S
ATOM	13585	O3*	A	A	653	138.448	122.228	-47.036	1.00	67.20	A16S
ATOM	13586	P	G	A	654	139.718	121.672	-47.859	1.00	59.88	A16S
ATOM	13587	O1P	G	A	654	140.864	122.493	-47.391	1.00	51.59	A16S
ATOM	13588	O2P	G	A	654	139.434	121.566	-49.342	1.00	51.59	A16S
ATOM	13589	O5*	G	A	654	139.908	120.193	-47.298	1.00	59.88	A16S
ATOM	13590	C5*	G	A	654	140.423	119.965	-45.971	1.00	59.88	A16S
ATOM	13591	C4*	G	A	654	140.503	118.487	-45.695	1.00	59.88	A16S
ATOM	13592	O4*	G	A	654	139.167	117.951	-45.539	1.00	59.88	A16S
ATOM	13593	C1*	G	A	654	139.094	116.665	-46.131	1.00	59.88	A16S
ATOM	13594	N9	G	A	654	138.138	116.720	-47.239	1.00	51.59	A16S
ATOM	13595	C4	G	A	654	137.551	115.645	-47.875	1.00	51.59	A16S
ATOM	13596	N3	G	A	654	137.744	114.343	-47.581	1.00	51.59	A16S
ATOM	13597	C2	G	A	654	137.053	113.551	-48.384	1.00	51.59	A16S
ATOM	13598	N2	G	A	654	137.131	112.228	-48.247	1.00	51.59	A16S
ATOM	13599	N1	G	A	654	136.240	113.999	-49.382	1.00	51.59	A16S
ATOM	13600	C6	G	A	654	136.032	115.332	-49.700	1.00	51.59	A16S
ATOM	13601	O6	G	A	654	135.290	115.627	-50.631	1.00	51.59	A16S
ATOM	13602	C5	G	A	654	136.758	116.192	-48.857	1.00	51.59	A16S
ATOM	13603	N7	G	A	654	136.829	117.578	-48.840	1.00	51.59	A16S
ATOM	13604	C8	G	A	654	137.655	117.847	-47.866	1.00	51.59	A16S
ATOM	13605	C2*	G	A	654	140.502	116.300	-46.600	1.00	59.88	A16S
ATOM	13606	O2*	G	A	654	141.183	115.592	-45.584	1.00	59.88	A16S
ATOM	13607	C3*	G	A	654	141.116	117.670	-46.817	1.00	59.88	A16S
ATOM	13608	O3*	G	A	654	142.531	117.631	-46.746	1.00	59.88	A16S
ATOM	13609	P	A	A	655	143.391	117.627	-48.105	1.00	46.39	A16S
ATOM	13610	O1P	A	A	655	144.821	117.491	-47.739	1.00	57.48	A16S
ATOM	13611	O2P	A	A	655	142.953	118.792	-48.924	1.00	57.48	A16S
ATOM	13612	O5*	A	A	655	142.933	116.293	-48.854	1.00	46.39	A16S
ATOM	13613	C5*	A	A	655	143.213	114.993	-48.297	1.00	46.39	A16S
ATOM	13614	C4*	A	A	655	142.451	113.921	-49.048	1.00	46.39	A16S
ATOM	13615	O4*	A	A	655	141.025	114.151	-48.900	1.00	46.39	A16S
ATOM	13616	C1*	A	A	655	140.353	113.757	-50.083	1.00	46.39	A16S
ATOM	13617	N9	A	A	655	139.695	114.928	-50.659	1.00	57.48	A16S
ATOM	13618	C4	A	A	655	138.783	114.882	-51.686	1.00	57.48	A16S
ATOM	13619	N3	A	A	655	138.321	113.785	-52.317	1.00	57.48	A16S
ATOM	13620	C2	A	A	655	137.458	114.121	-53.272	1.00	57.48	A16S
ATOM	13621	N1	A	A	655	137.035	115.333	-53.640	1.00	57.48	A16S
ATOM	13622	C6	A	A	655	137.519	116.415	-52.985	1.00	57.48	A16S

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ATOM	13623	N6	A	A	655	137.098	117.624	-53.354	1.00	57.48	A16S
ATOM	13624	C5	A	A	655	138.444	116.195	-51.948	1.00	57.48	A16S
ATOM	13625	N7	A	A	655	139.120	117.058	-51.092	1.00	57.48	A16S
ATOM	13626	C8	A	A	655	139.845	116.259	-50.347	1.00	57.48	A16S
ATOM	13627	C2*	A	A	655	141.390	113.190	-51.052	1.00	46.39	A16S
ATOM	13628	O2*	A	A	655	141.415	111.774	-50.993	1.00	46.39	A16S
ATOM	13629	C3*	A	A	655	142.665	113.861	-50.556	1.00	46.39	A16S
ATOM	13630	O3*	A	A	655	143.830	113.137	-50.934	1.00	46.39	A16S
ATOM	13631	P	C	A	656	144.673	113.615	-52.222	1.00	59.29	A16S
ATOM	13632	O1P	C	A	656	145.946	112.840	-52.213	1.00	50.20	A16S
ATOM	13633	O2P	C	A	656	144.716	115.107	-52.240	1.00	50.20	A16S
ATOM	13634	O5*	C	A	656	143.804	113.106	-53.453	1.00	59.29	A16S
ATOM	13635	C5*	C	A	656	143.548	111.712	-53.614	1.00	59.29	A16S
ATOM	13636	C4*	C	A	656	142.503	111.494	-54.669	1.00	59.29	A16S
ATOM	13637	O4*	C	A	656	141.230	112.033	-54.225	1.00	59.29	A16S
ATOM	13638	C1*	C	A	656	140.510	112.527	-55.343	1.00	59.29	A16S
ATOM	13639	N1	C	A	656	140.361	113.989	-55.215	1.00	50.20	A16S
ATOM	13640	C6	C	A	656	141.189	114.711	-54.408	1.00	50.20	A16S
ATOM	13641	C2	C	A	656	139.369	114.644	-55.976	1.00	50.20	A16S
ATOM	13642	O2	C	A	656	138.578	113.969	-56.655	1.00	50.20	A16S
ATOM	13643	N3	C	A	656	139.295	115.990	-55.944	1.00	50.20	A16S
ATOM	13644	C4	C	A	656	140.139	116.682	-55.184	1.00	50.20	A16S
ATOM	13645	N4	C	A	656	140.058	118.008	-55.219	1.00	50.20	A16S
ATOM	13646	C5	C	A	656	141.113	116.045	-54.362	1.00	50.20	A16S
ATOM	13647	C2*	C	A	656	141.344	112.222	-56.586	1.00	59.29	A16S
ATOM	13648	O2*	C	A	656	140.979	110.970	-57.135	1.00	59.29	A16S
ATOM	13649	C3*	C	A	656	142.744	112.181	-56.002	1.00	59.29	A16S
ATOM	13650	O3*	C	A	656	143.645	111.488	-56.858	1.00	59.29	A16S
ATOM	13651	P	G	A	657	144.577	112.330	-57.872	1.00	62.97	A16S
ATOM	13652	O1P	G	A	657	145.554	111.336	-58.406	1.00	65.51	A16S
ATOM	13653	O2P	G	A	657	145.056	113.572	-57.199	1.00	65.51	A16S
ATOM	13654	O5*	G	A	657	143.597	112.792	-59.042	1.00	62.97	A16S
ATOM	13655	C5*	G	A	657	142.838	111.818	-59.777	1.00	62.97	A16S
ATOM	13656	C4*	G	A	657	141.755	112.489	-60.586	1.00	62.97	A16S
ATOM	13657	O4*	G	A	657	140.817	113.165	-59.707	1.00	62.97	A16S
ATOM	13658	C1*	G	A	657	140.248	114.268	-60.386	1.00	62.97	A16S
ATOM	13659	N9	G	A	657	140.540	115.493	-59.653	1.00	65.51	A16S
ATOM	13660	C4	G	A	657	140.116	116.748	-60.016	1.00	65.51	A16S
ATOM	13661	N3	G	A	657	139.295	117.034	-61.051	1.00	65.51	A16S
ATOM	13662	C2	G	A	657	139.111	118.333	-61.190	1.00	65.51	A16S
ATOM	13663	N2	G	A	657	138.308	118.788	-62.162	1.00	65.51	A16S
ATOM	13664	N1	G	A	657	139.700	119.283	-60.386	1.00	65.51	A16S
ATOM	13665	C6	G	A	657	140.560	119.013	-59.323	1.00	65.51	A16S
ATOM	13666	O6	G	A	657	141.070	119.946	-58.689	1.00	65.51	A16S
ATOM	13667	C5	G	A	657	140.741	117.612	-59.144	1.00	65.51	A16S
ATOM	13668	N7	G	A	657	141.488	116.909	-58.206	1.00	65.51	A16S
ATOM	13669	C8	G	A	657	141.328	115.654	-58.539	1.00	65.51	A16S
ATOM	13670	C2*	G	A	657	140.896	114.346	-61.771	1.00	62.97	A16S
ATOM	13671	O2*	G	A	657	140.041	113.761	-62.728	1.00	62.97	A16S
ATOM	13672	C3*	G	A	657	142.188	113.566	-61.564	1.00	62.97	A16S
ATOM	13673	O3*	G	A	657	142.672	113.015	-62.783	1.00	62.97	A16S
ATOM	13674	P	G	A	658	143.645	113.888	-63.726	1.00	52.25	A16S
ATOM	13675	O1P	G	A	658	144.110	112.956	-64.786	1.00	57.63	A16S
ATOM	13676	O2P	G	A	658	144.646	114.612	-62.898	1.00	57.63	A16S
ATOM	13677	O5*	G	A	658	142.681	114.983	-64.378	1.00	52.25	A16S
ATOM	13678	C5*	G	A	658	141.574	114.592	-65.231	1.00	52.25	A16S
ATOM	13679	C4*	G	A	658	140.943	115.807	-65.866	1.00	52.25	A16S
ATOM	13680	O4*	G	A	658	140.303	116.601	-64.842	1.00	52.25	A16S
ATOM	13681	C1*	G	A	658	140.529	117.976	-65.089	1.00	52.25	A16S
ATOM	13682	N9	G	A	658	141.292	118.500	-63.961	1.00	57.63	A16S
ATOM	13683	C4	G	A	658	141.498	119.825	-63.629	1.00	57.63	A16S
ATOM	13684	N3	G	A	658	141.029	120.898	-64.299	1.00	57.63	A16S
ATOM	13685	C2	G	A	658	141.396	122.037	-63.725	1.00	57.63	A16S
ATOM	13686	N2	G	A	658	141.002	123.206	-64.247	1.00	57.63	A16S
ATOM	13687	N1	G	A	658	142.170	122.117	-62.592	1.00	57.63	A16S
ATOM	13688	C6	G	A	658	142.653	121.027	-61.880	1.00	57.63	A16S
ATOM	13689	O6	G	A	658	143.325	121.206	-60.856	1.00	57.63	A16S
ATOM	13690	C5	G	A	658	142.264	119.797	-62.481	1.00	57.63	A16S
ATOM	13691	N7	G	A	658	142.532	118.490	-62.098	1.00	57.63	A16S
ATOM	13692	C8	G	A	658	141.943	117.758	-63.005	1.00	57.63	A16S
ATOM	13693	C2*	G	A	658	141.247	118.099	-66.434	1.00	52.25	A16S
ATOM	13694	O2*	G	A	658	140.295	118.310	-67.460	1.00	52.25	A16S
ATOM	13695	C3*	G	A	658	141.931	116.743	-66.539	1.00	52.25	A16S
ATOM	13696	O3*	G	A	658	142.172	116.344	-67.884	1.00	52.25	A16S
ATOM	13697	P	U	A	659	143.485	116.869	-68.642	1.00	64.81	A16S
ATOM	13698	O1P	U	A	659	143.379	116.428	-70.063	1.00	65.69	A16S
ATOM	13699	O2P	U	A	659	144.698	116.541	-67.861	1.00	65.69	A16S

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ATOM	13700	O5*	U	A	659	143.329	118.444	-68.587	1.00	64.81	A16S
ATOM	13701	C5*	U	A	659	142.442	119.101	-69.478	1.00	64.81	A16S
ATOM	13702	C4*	U	A	659	142.732	120.566	-69.479	1.00	64.81	A16S
ATOM	13703	O4*	U	A	659	142.370	121.111	-68.187	1.00	64.81	A16S
ATOM	13704	C1*	U	A	659	143.293	122.115	-67.819	1.00	64.81	A16S
ATOM	13705	N1	U	A	659	143.927	121.707	-66.559	1.00	65.69	A16S
ATOM	13706	C6	U	A	659	144.191	120.383	-66.285	1.00	65.69	A16S
ATOM	13707	C2	U	A	659	144.262	122.701	-65.665	1.00	65.69	A16S
ATOM	13708	O2	U	A	659	144.020	123.878	-65.863	1.00	65.69	A16S
ATOM	13709	N3	U	A	659	144.887	122.264	-64.529	1.00	65.69	A16S
ATOM	13710	C4	U	A	659	145.199	120.962	-64.205	1.00	65.69	A16S
ATOM	13711	O4	U	A	659	145.845	120.737	-63.185	1.00	65.69	A16S
ATOM	13712	C5	U	A	659	144.796	119.989	-65.171	1.00	65.69	A16S
ATOM	13713	C2*	U	A	659	144.299	122.271	-68.962	1.00	64.81	A16S
ATOM	13714	O2*	U	A	659	143.916	123.352	-69.793	1.00	64.81	A16S
ATOM	13715	C3*	U	A	659	144.199	120.910	-69.642	1.00	64.81	A16S
ATOM	13716	O3*	U	A	659	144.606	120.897	-71.004	1.00	64.81	A16S
ATOM	13717	P	G	A	660	146.144	120.595	-71.362	1.00	67.18	A16S
ATOM	13718	O1P	G	A	660	146.254	120.691	-72.844	1.00	67.96	A16S
ATOM	13719	O2P	G	A	660	146.555	119.342	-70.679	1.00	67.96	A16S
ATOM	13720	O5*	G	A	660	146.897	121.839	-70.711	1.00	67.18	A16S
ATOM	13721	C5*	G	A	660	146.512	123.156	-71.110	1.00	67.18	A16S
ATOM	13722	C4*	G	A	660	147.156	124.208	-70.251	1.00	67.18	A16S
ATOM	13723	O4*	G	A	660	146.614	124.206	-68.911	1.00	67.18	A16S
ATOM	13724	C1*	G	A	660	147.577	124.737	-68.015	1.00	67.18	A16S
ATOM	13725	N9	G	A	660	147.856	123.755	-66.975	1.00	67.96	A16S
ATOM	13726	C4	G	A	660	148.479	124.003	-65.775	1.00	67.96	A16S
ATOM	13727	N3	G	A	660	148.919	125.201	-65.346	1.00	67.96	A16S
ATOM	13728	C2	G	A	660	149.503	125.118	-64.162	1.00	67.96	A16S
ATOM	13729	N2	G	A	660	149.993	126.220	-63.581	1.00	67.96	A16S
ATOM	13730	N1	G	A	660	149.648	123.953	-63.458	1.00	67.96	A16S
ATOM	13731	C6	G	A	660	149.203	122.707	-63.878	1.00	67.96	A16S
ATOM	13732	O6	G	A	660	149.393	121.715	-63.165	1.00	67.96	A16S
ATOM	13733	C5	G	A	660	148.567	122.781	-65.148	1.00	67.96	A16S
ATOM	13734	N7	G	A	660	147.995	121.784	-65.930	1.00	67.96	A16S
ATOM	13735	C8	G	A	660	147.584	122.409	-67.000	1.00	67.96	A16S
ATOM	13736	C2*	G	A	660	148.837	125.047	-68.825	1.00	67.18	A16S
ATOM	13737	O2*	G	A	660	148.852	126.428	-69.143	1.00	67.18	A16S
ATOM	13738	C3*	G	A	660	148.652	124.145	-70.044	1.00	67.18	A16S
ATOM	13739	O3*	G	A	660	149.373	124.621	-71.169	1.00	67.18	A16S
ATOM	13740	P	G	A	661	150.877	124.118	-71.402	1.00	91.21	A16S
ATOM	13741	O1P	G	A	661	151.584	125.179	-72.163	1.00	62.21	A16S
ATOM	13742	O2P	G	A	661	150.858	122.720	-71.920	1.00	62.21	A16S
ATOM	13743	O5*	G	A	661	151.456	124.111	-69.924	1.00	91.21	A16S
ATOM	13744	C5*	G	A	661	152.856	124.115	-69.678	1.00	91.21	A16S
ATOM	13745	C4*	G	A	661	153.196	125.176	-68.661	1.00	91.21	A16S
ATOM	13746	O4*	G	A	661	152.166	125.245	-67.638	1.00	91.21	A16S
ATOM	13747	C1*	G	A	661	152.763	125.246	-66.347	1.00	91.21	A16S
ATOM	13748	N9	G	A	661	152.497	123.931	-65.755	1.00	62.21	A16S
ATOM	13749	C4	G	A	661	152.793	123.489	-64.474	1.00	62.21	A16S
ATOM	13750	N3	G	A	661	153.374	124.209	-63.493	1.00	62.21	A16S
ATOM	13751	C2	G	A	661	153.548	123.491	-62.394	1.00	62.21	A16S
ATOM	13752	N2	G	A	661	154.127	124.044	-61.324	1.00	62.21	A16S
ATOM	13753	N1	G	A	661	153.174	122.176	-62.261	1.00	62.21	A16S
ATOM	13754	C6	G	A	661	152.577	121.412	-63.256	1.00	62.21	A16S
ATOM	13755	O6	G	A	661	152.293	120.221	-63.042	1.00	62.21	A16S
ATOM	13756	C5	G	A	661	152.385	122.167	-64.442	1.00	62.21	A16S
ATOM	13757	N7	G	A	661	151.831	121.791	-65.658	1.00	62.21	A16S
ATOM	13758	C8	G	A	661	151.912	122.863	-66.399	1.00	62.21	A16S
ATOM	13759	C2*	G	A	661	154.259	125.517	-66.558	1.00	91.21	A16S
ATOM	13760	O2*	G	A	661	154.533	126.909	-66.533	1.00	91.21	A16S
ATOM	13761	C3*	G	A	661	154.483	124.874	-67.923	1.00	91.21	A16S
ATOM	13762	O3*	G	A	661	155.620	125.317	-68.644	1.00	91.21	A16S
ATOM	13763	P	G	A	662	156.920	124.374	-68.712	1.00	82.75	A16S
ATOM	13764	O1P	G	A	662	157.902	125.083	-69.584	1.00	53.40	A16S
ATOM	13765	O2P	G	A	662	156.518	122.970	-69.033	1.00	53.40	A16S
ATOM	13766	O5*	G	A	662	157.453	124.405	-67.212	1.00	82.75	A16S
ATOM	13767	C5*	G	A	662	157.641	125.662	-66.552	1.00	82.75	A16S
ATOM	13768	C4*	G	A	662	158.133	125.455	-65.148	1.00	82.75	A16S
ATOM	13769	O4*	G	A	662	157.076	124.948	-64.304	1.00	82.75	A16S
ATOM	13770	C1*	G	A	662	157.637	124.167	-63.268	1.00	82.75	A16S
ATOM	13771	N9	G	A	662	157.019	122.849	-63.291	1.00	53.40	A16S
ATOM	13772	C4	G	A	662	157.018	121.924	-62.266	1.00	53.40	A16S
ATOM	13773	N3	G	A	662	157.607	122.071	-61.053	1.00	53.40	A16S
ATOM	13774	C2	G	A	662	157.438	120.996	-60.288	1.00	53.40	A16S
ATOM	13775	N2	G	A	662	157.965	120.951	-59.049	1.00	53.40	A16S
ATOM	13776	N1	G	A	662	156.740	119.878	-60.677	1.00	53.40	A16S

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ATOM	13777	C6	G	A	662	156.117	119.707	-61.908	1.00	53.40	A16S
ATOM	13778	O6	G	A	662	155.487	118.656	-62.145	1.00	53.40	A16S
ATOM	13779	C5	G	A	662	156.305	120.846	-62.750	1.00	53.40	A16S
ATOM	13780	N7	G	A	662	155.877	121.085	-64.052	1.00	53.40	A16S
ATOM	13781	C8	G	A	662	156.322	122.281	-64.329	1.00	53.40	A16S
ATOM	13782	C2*	G	A	662	159.146	124.107	-63.489	1.00	82.75	A16S
ATOM	13783	O2*	G	A	662	159.754	125.042	-62.626	1.00	82.75	A16S
ATOM	13784	C3*	G	A	662	159.263	124.468	-64.967	1.00	82.75	A16S
ATOM	13785	O3*	G	A	662	160.507	125.060	-65.301	1.00	82.75	A16S
ATOM	13786	P	A	A	663	161.721	124.131	-65.808	1.00	59.50	A16S
ATOM	13787	O1P	A	A	663	162.664	125.047	-66.530	1.00	48.91	A16S
ATOM	13788	O2P	A	A	663	161.187	122.916	-66.499	1.00	48.91	A16S
ATOM	13789	O5*	A	A	663	162.414	123.644	-64.456	1.00	59.50	A16S
ATOM	13790	C5*	A	A	663	162.884	124.606	-63.488	1.00	59.50	A16S
ATOM	13791	C4*	A	A	663	163.276	123.914	-62.210	1.00	59.50	A16S
ATOM	13792	O4*	A	A	663	162.101	123.419	-61.522	1.00	59.50	A16S
ATOM	13793	C1*	A	A	663	162.398	122.186	-60.888	1.00	59.50	A16S
ATOM	13794	N9	A	A	663	161.551	121.151	-61.479	1.00	48.91	A16S
ATOM	13795	C4	A	A	663	161.044	120.023	-60.870	1.00	48.91	A16S
ATOM	13796	N3	A	A	663	161.236	119.612	-59.607	1.00	48.91	A16S
ATOM	13797	C2	A	A	663	160.563	118.486	-59.375	1.00	48.91	A16S
ATOM	13798	N1	A	A	663	159.785	117.779	-60.200	1.00	48.91	A16S
ATOM	13799	C6	A	A	663	159.618	118.219	-61.462	1.00	48.91	A16S
ATOM	13800	N6	A	A	663	158.847	117.520	-62.291	1.00	48.91	A16S
ATOM	13801	C5	A	A	663	160.269	119.393	-61.831	1.00	48.91	A16S
ATOM	13802	N7	A	A	663	160.303	120.092	-63.026	1.00	48.91	A16S
ATOM	13803	C8	A	A	663	161.080	121.120	-62.769	1.00	48.91	A16S
ATOM	13804	C2*	A	A	663	163.876	121.909	-61.117	1.00	59.50	A16S
ATOM	13805	O2*	A	A	663	164.583	122.450	-60.022	1.00	59.50	A16S
ATOM	13806	C3*	A	A	663	164.135	122.685	-62.398	1.00	59.50	A16S
ATOM	13807	O3*	A	A	663	165.497	123.002	-62.590	1.00	59.50	A16S
ATOM	13808	P	G	A	664	166.411	121.998	-63.443	1.00	60.66	A16S
ATOM	13809	O1P	G	A	664	167.784	122.560	-63.532	1.00	50.76	A16S
ATOM	13810	O2P	G	A	664	165.656	121.650	-64.695	1.00	50.76	A16S
ATOM	13811	O5*	G	A	664	166.494	120.699	-62.527	1.00	60.66	A16S
ATOM	13812	C5*	G	A	664	166.906	120.814	-61.168	1.00	60.66	A16S
ATOM	13813	C4*	G	A	664	166.574	119.562	-60.421	1.00	60.66	A16S
ATOM	13814	O4*	G	A	664	165.148	119.361	-60.382	1.00	60.66	A16S
ATOM	13815	C1*	G	A	664	164.882	117.991	-60.180	1.00	60.66	A16S
ATOM	13816	N9	G	A	664	163.852	117.563	-61.115	1.00	50.76	A16S
ATOM	13817	C4	G	A	664	163.034	116.461	-60.983	1.00	50.76	A16S
ATOM	13818	N3	G	A	664	162.996	115.617	-59.927	1.00	50.76	A16S
ATOM	13819	C2	G	A	664	162.134	114.623	-60.119	1.00	50.76	A16S
ATOM	13820	N2	G	A	664	161.951	113.685	-59.170	1.00	50.76	A16S
ATOM	13821	N1	G	A	664	161.385	114.471	-61.255	1.00	50.76	A16S
ATOM	13822	C6	G	A	664	161.413	115.317	-62.357	1.00	50.76	A16S
ATOM	13823	O6	G	A	664	160.714	115.059	-63.350	1.00	50.76	A16S
ATOM	13824	C5	G	A	664	162.312	116.399	-62.158	1.00	50.76	A16S
ATOM	13825	N7	G	A	664	162.626	117.469	-62.985	1.00	50.76	A16S
ATOM	13826	C8	G	A	664	163.534	118.137	-62.321	1.00	50.76	A16S
ATOM	13827	C2*	G	A	664	166.197	117.235	-60.368	1.00	60.66	A16S
ATOM	13828	O2*	G	A	664	166.685	116.896	-59.090	1.00	60.66	A16S
ATOM	13829	C3*	G	A	664	167.081	118.280	-61.041	1.00	60.66	A16S
ATOM	13830	O3*	G	A	664	168.449	118.101	-60.690	1.00	60.66	A16S
ATOM	13831	P	A	A	665	169.537	117.715	-61.817	1.00	63.56	A16S
ATOM	13832	O1P	A	A	665	170.338	118.936	-62.083	1.00	44.69	A16S
ATOM	13833	O2P	A	A	665	168.884	117.003	-62.963	1.00	44.69	A16S
ATOM	13834	O5*	A	A	665	170.475	116.692	-61.031	1.00	63.56	A16S
ATOM	13835	C5*	A	A	665	171.231	115.713	-61.745	1.00	63.56	A16S
ATOM	13836	C4*	A	A	665	171.288	114.411	-60.981	1.00	63.56	A16S
ATOM	13837	O4*	A	A	665	172.502	114.305	-60.201	1.00	63.56	A16S
ATOM	13838	C1*	A	A	665	172.278	113.412	-59.130	1.00	63.56	A16S
ATOM	13839	N9	A	A	665	172.700	114.055	-57.888	1.00	44.69	A16S
ATOM	13840	C4	A	A	665	173.355	113.429	-56.855	1.00	44.69	A16S
ATOM	13841	N3	A	A	665	173.690	112.134	-56.772	1.00	44.69	A16S
ATOM	13842	C2	A	A	665	174.334	111.889	-55.641	1.00	44.69	A16S
ATOM	13843	N1	A	A	665	174.655	112.723	-54.655	1.00	44.69	A16S
ATOM	13844	C6	A	A	665	174.301	114.018	-54.765	1.00	44.69	A16S
ATOM	13845	N6	A	A	665	174.623	114.850	-53.779	1.00	44.69	A16S
ATOM	13846	C5	A	A	665	173.612	114.410	-55.920	1.00	44.69	A16S
ATOM	13847	N7	A	A	665	173.108	115.635	-56.340	1.00	44.69	A16S
ATOM	13848	C8	A	A	665	172.570	115.370	-57.508	1.00	44.69	A16S
ATOM	13849	C2*	A	A	665	170.810	112.980	-59.168	1.00	63.56	A16S
ATOM	13850	O2*	A	A	665	170.732	111.736	-59.834	1.00	63.56	A16S
ATOM	13851	C3*	A	A	665	170.172	114.074	-60.011	1.00	63.56	A16S
ATOM	13852	O3*	A	A	665	169.028	113.566	-60.679	1.00	63.56	A16S
ATOM	13853	P	G	A	666	167.568	113.781	-60.030	1.00	49.70	A16S

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ATOM	13854	O1P	G	A	666	166.635	114.173	-61.124	1.00	56.72	A16S
ATOM	13855	O2P	G	A	666	167.730	114.668	-58.844	1.00	56.72	A16S
ATOM	13856	O5*	G	A	666	167.116	112.328	-59.545	1.00	49.70	A16S
ATOM	13857	C5*	G	A	666	167.309	111.895	-58.179	1.00	49.70	A16S
ATOM	13858	C4*	G	A	666	166.385	110.738	-57.858	1.00	49.70	A16S
ATOM	13859	O4*	G	A	666	165.014	111.170	-58.070	1.00	49.70	A16S
ATOM	13860	C1*	G	A	666	164.234	110.095	-58.572	1.00	49.70	A16S
ATOM	13861	N9	G	A	666	163.799	110.434	-59.924	1.00	56.72	A16S
ATOM	13862	C4	G	A	666	163.078	109.631	-60.776	1.00	56.72	A16S
ATOM	13863	N3	G	A	666	162.590	108.409	-60.488	1.00	56.72	A16S
ATOM	13864	C2	G	A	666	161.961	107.872	-61.518	1.00	56.72	A16S
ATOM	13865	N2	G	A	666	161.387	106.662	-61.395	1.00	56.72	A16S
ATOM	13866	N1	G	A	666	161.843	108.479	-62.744	1.00	56.72	A16S
ATOM	13867	C6	G	A	666	162.351	109.732	-63.068	1.00	56.72	A16S
ATOM	13868	O6	G	A	666	162.219	110.176	-64.222	1.00	56.72	A16S
ATOM	13869	C5	G	A	666	162.998	110.331	-61.958	1.00	56.72	A16S
ATOM	13870	N7	G	A	666	163.614	111.568	-61.839	1.00	56.72	A16S
ATOM	13871	C8	G	A	666	164.067	111.589	-60.616	1.00	56.72	A16S
ATOM	13872	C2*	G	A	666	165.131	108.865	-58.599	1.00	49.70	A16S
ATOM	13873	O2*	G	A	666	164.936	108.161	-57.397	1.00	49.70	A16S
ATOM	13874	C3*	G	A	666	166.509	109.498	-58.727	1.00	49.70	A16S
ATOM	13875	O3*	G	A	666	167.560	108.624	-58.347	1.00	49.70	A16S
ATOM	13876	P	G	A	667	168.350	107.812	-59.494	1.00	49.31	A16S
ATOM	13877	O1P	G	A	667	169.488	107.082	-58.875	1.00	42.95	A16S
ATOM	13878	O2P	G	A	667	168.607	108.745	-60.627	1.00	42.95	A16S
ATOM	13879	O5*	G	A	667	167.301	106.712	-59.955	1.00	49.31	A16S
ATOM	13880	C5*	G	A	667	166.877	105.710	-59.032	1.00	49.31	A16S
ATOM	13881	C4*	G	A	667	165.921	104.758	-59.692	1.00	49.31	A16S
ATOM	13882	O4*	G	A	667	164.759	105.502	-60.125	1.00	49.31	A16S
ATOM	13883	C1*	G	A	667	164.283	104.977	-61.354	1.00	49.31	A16S
ATOM	13884	N9	G	A	667	164.510	105.986	-62.382	1.00	42.95	A16S
ATOM	13885	C4	G	A	667	164.109	105.932	-63.689	1.00	42.95	A16S
ATOM	13886	N3	G	A	667	163.418	104.930	-64.261	1.00	42.95	A16S
ATOM	13887	C2	G	A	667	163.194	105.157	-65.543	1.00	42.95	A16S
ATOM	13888	N2	G	A	667	162.525	104.251	-66.270	1.00	42.95	A16S
ATOM	13889	N1	G	A	667	163.610	106.285	-66.203	1.00	42.95	A16S
ATOM	13890	C6	G	A	667	164.315	107.337	-65.624	1.00	42.95	A16S
ATOM	13891	O6	G	A	667	164.632	108.329	-66.302	1.00	42.95	A16S
ATOM	13892	C5	G	A	667	164.570	107.096	-64.261	1.00	42.95	A16S
ATOM	13893	N7	G	A	667	165.241	107.870	-63.330	1.00	42.95	A16S
ATOM	13894	C8	G	A	667	165.180	107.174	-62.231	1.00	42.95	A16S
ATOM	13895	C2*	G	A	667	165.091	103.715	-61.640	1.00	49.31	A16S
ATOM	13896	O2*	G	A	667	164.429	102.620	-61.024	1.00	49.31	A16S
ATOM	13897	C3*	G	A	667	166.406	104.048	-60.950	1.00	49.31	A16S
ATOM	13898	O3*	G	A	667	167.181	102.885	-60.667	1.00	49.31	A16S
ATOM	13899	P	G	A	668	168.399	102.487	-61.640	1.00	55.59	A16S
ATOM	13900	O1P	G	A	668	169.103	101.363	-60.959	1.00	49.09	A16S
ATOM	13901	O2P	G	A	668	169.157	103.728	-61.999	1.00	49.09	A16S
ATOM	13902	O5*	G	A	668	167.671	101.906	-62.935	1.00	55.59	A16S
ATOM	13903	C5*	G	A	668	166.917	100.685	-62.840	1.00	55.59	A16S
ATOM	13904	C4*	G	A	668	166.271	100.343	-64.161	1.00	55.59	A16S
ATOM	13905	O4*	G	A	668	165.301	101.364	-64.512	1.00	55.59	A16S
ATOM	13906	C1*	G	A	668	165.249	101.510	-65.918	1.00	55.59	A16S
ATOM	13907	N9	G	A	668	165.716	102.848	-66.247	1.00	49.09	A16S
ATOM	13908	C4	G	A	668	165.651	103.447	-67.477	1.00	49.09	A16S
ATOM	13909	N3	G	A	668	165.125	102.903	-68.593	1.00	49.09	A16S
ATOM	13910	C2	G	A	668	165.213	103.720	-69.635	1.00	49.09	A16S
ATOM	13911	N2	G	A	668	164.721	103.330	-70.823	1.00	49.09	A16S
ATOM	13912	N1	G	A	668	165.786	104.973	-69.586	1.00	49.09	A16S
ATOM	13913	C6	G	A	668	166.348	105.549	-68.448	1.00	49.09	A16S
ATOM	13914	O6	G	A	668	166.870	106.674	-68.516	1.00	49.09	A16S
ATOM	13915	C5	G	A	668	166.241	104.685	-67.316	1.00	49.09	A16S
ATOM	13916	N7	G	A	668	166.654	104.865	-66.002	1.00	49.09	A16S
ATOM	13917	C8	G	A	668	166.324	103.750	-65.405	1.00	49.09	A16S
ATOM	13918	C2*	G	A	668	166.180	100.463	-66.517	1.00	55.59	A16S
ATOM	13919	O2*	G	A	668	165.428	99.294	-66.752	1.00	55.59	A16S
ATOM	13920	C3*	G	A	668	167.172	100.254	-65.382	1.00	55.59	A16S
ATOM	13921	O3*	G	A	668	167.849	99.001	-65.488	1.00	55.59	A16S
ATOM	13922	P	U	A	669	169.321	98.958	-66.138	1.00	61.51	A16S
ATOM	13923	O1P	U	A	669	169.908	97.606	-65.883	1.00	50.88	A16S
ATOM	13924	O2P	U	A	669	170.053	100.178	-65.676	1.00	50.88	A16S
ATOM	13925	O5*	U	A	669	169.029	99.110	-67.698	1.00	61.51	A16S
ATOM	13926	C5*	U	A	669	168.318	98.082	-68.408	1.00	61.51	A16S
ATOM	13927	C4*	U	A	669	168.179	98.442	-69.869	1.00	61.51	A16S
ATOM	13928	O4*	U	A	669	167.296	99.581	-70.005	1.00	61.51	A16S
ATOM	13929	C1*	U	A	669	167.689	100.359	-71.119	1.00	61.51	A16S
ATOM	13930	N1	U	A	669	168.067	101.689	-70.646	1.00	50.88	A16S

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ATOM	13931	C6	U	A	669	168.471	101.900	-69.354	1.00	50.88	A16S
ATOM	13932	C2	U	A	669	168.031	102.713	-71.562	1.00	50.88	A16S
ATOM	13933	O2	U	A	669	167.655	102.555	-72.715	1.00	50.88	A16S
ATOM	13934	N3	U	A	669	168.456	103.929	-71.087	1.00	50.88	A16S
ATOM	13935	C4	U	A	669	168.902	104.204	-69.812	1.00	50.88	A16S
ATOM	13936	O4	U	A	669	169.297	105.337	-69.541	1.00	50.88	A16S
ATOM	13937	C5	U	A	669	168.882	103.087	-68.917	1.00	50.88	A16S
ATOM	13938	C2*	U	A	669	168.899	99.691	-71.760	1.00	61.51	A16S
ATOM	13939	O2*	U	A	669	168.466	98.923	-72.861	1.00	61.51	A16S
ATOM	13940	C3*	U	A	669	169.442	98.866	-70.601	1.00	61.51	A16S
ATOM	13941	O3*	U	A	669	170.210	97.769	-71.057	1.00	61.51	A16S
ATOM	13942	P	G	A	670	171.786	97.956	-71.273	1.00	68.07	A16S
ATOM	13943	O1P	G	A	670	172.310	96.591	-71.540	1.00	64.26	A16S
ATOM	13944	O2P	G	A	670	172.333	98.742	-70.142	1.00	64.26	A16S
ATOM	13945	O5*	G	A	670	171.883	98.848	-72.593	1.00	68.07	A16S
ATOM	13946	C5*	G	A	670	171.433	98.323	-73.860	1.00	68.07	A16S
ATOM	13947	C4*	G	A	670	171.351	99.417	-74.902	1.00	68.07	A16S
ATOM	13948	O4*	G	A	670	170.432	100.446	-74.449	1.00	68.07	A16S
ATOM	13949	C1*	G	A	670	170.872	101.714	-74.903	1.00	68.07	A16S
ATOM	13950	N9	G	A	670	171.227	102.519	-73.740	1.00	64.26	A16S
ATOM	13951	C4	G	A	670	171.493	103.862	-73.747	1.00	64.26	A16S
ATOM	13952	N3	G	A	670	171.436	104.670	-74.824	1.00	64.26	A16S
ATOM	13953	C2	G	A	670	171.748	105.918	-74.522	1.00	64.26	A16S
ATOM	13954	N2	G	A	670	171.712	106.859	-75.474	1.00	64.26	A16S
ATOM	13955	N1	G	A	670	172.109	106.335	-73.263	1.00	64.26	A16S
ATOM	13956	C6	G	A	670	172.185	105.516	-72.140	1.00	64.26	A16S
ATOM	13957	O6	G	A	670	172.535	105.991	-71.052	1.00	64.26	A16S
ATOM	13958	C5	G	A	670	171.830	104.177	-72.448	1.00	64.26	A16S
ATOM	13959	N7	G	A	670	171.758	103.055	-71.635	1.00	64.26	A16S
ATOM	13960	C8	G	A	670	171.393	102.095	-72.443	1.00	64.26	A16S
ATOM	13961	C2*	G	A	670	172.107	101.489	-75.773	1.00	68.07	A16S
ATOM	13962	O2*	G	A	670	171.731	101.420	-77.137	1.00	68.07	A16S
ATOM	13963	C3*	G	A	670	172.632	100.174	-75.211	1.00	68.07	A16S
ATOM	13964	O3*	G	A	670	173.484	99.494	-76.119	1.00	68.07	A16S
ATOM	13965	P	G	A	671	175.080	99.698	-76.009	1.00	71.52	A16S
ATOM	13966	O1P	G	A	671	175.671	98.750	-76.994	1.00	68.42	A16S
ATOM	13967	O2P	G	A	671	175.491	99.619	-74.582	1.00	68.42	A16S
ATOM	13968	O5*	G	A	671	175.320	101.198	-76.500	1.00	71.52	A16S
ATOM	13969	C5*	G	A	671	174.848	101.606	-77.785	1.00	71.52	A16S
ATOM	13970	C4*	G	A	671	174.862	103.104	-77.918	1.00	71.52	A16S
ATOM	13971	O4*	G	A	671	174.077	103.711	-76.865	1.00	71.52	A16S
ATOM	13972	C1*	G	A	671	174.529	105.039	-76.664	1.00	71.52	A16S
ATOM	13973	N9	G	A	671	174.845	105.255	-75.257	1.00	68.42	A16S
ATOM	13974	C4	G	A	671	175.118	106.475	-74.704	1.00	68.42	A16S
ATOM	13975	N3	G	A	671	175.111	107.650	-75.363	1.00	68.42	A16S
ATOM	13976	C2	G	A	671	175.428	108.657	-74.578	1.00	68.42	A16S
ATOM	13977	N2	G	A	671	175.466	109.899	-75.085	1.00	68.42	A16S
ATOM	13978	N1	G	A	671	175.729	108.523	-73.242	1.00	68.42	A16S
ATOM	13979	C6	G	A	671	175.742	107.322	-72.541	1.00	68.42	A16S
ATOM	13980	O6	G	A	671	176.031	107.313	-71.339	1.00	68.42	A16S
ATOM	13981	C5	G	A	671	175.402	106.226	-73.381	1.00	68.42	A16S
ATOM	13982	N7	G	A	671	175.301	104.868	-73.103	1.00	68.42	A16S
ATOM	13983	C8	G	A	671	174.962	104.331	-74.244	1.00	68.42	A16S
ATOM	13984	C2*	G	A	671	175.772	105.254	-77.528	1.00	71.52	A16S
ATOM	13985	O2*	G	A	671	175.429	105.992	-78.687	1.00	71.52	A16S
ATOM	13986	C3*	G	A	671	176.197	103.822	-77.827	1.00	71.52	A16S
ATOM	13987	O3*	G	A	671	176.906	103.776	-79.051	1.00	71.52	A16S
ATOM	13988	P	U	A	672	178.510	103.743	-79.038	1.00	63.08	A16S
ATOM	13989	O1P	U	A	672	178.921	103.705	-80.474	1.00	65.78	A16S
ATOM	13990	O2P	U	A	672	178.963	102.667	-78.097	1.00	65.78	A16S
ATOM	13991	O5*	U	A	672	178.934	105.165	-78.463	1.00	63.08	A16S
ATOM	13992	C5*	U	A	672	178.817	106.330	-79.280	1.00	63.08	A16S
ATOM	13993	C4*	U	A	672	179.011	107.566	-78.450	1.00	63.08	A16S
ATOM	13994	O4*	U	A	672	178.193	107.437	-77.266	1.00	63.08	A16S
ATOM	13995	C1*	U	A	672	178.782	108.170	-76.214	1.00	63.08	A16S
ATOM	13996	N1	U	A	672	178.860	107.336	-75.010	1.00	65.78	A16S
ATOM	13997	C6	U	A	672	178.772	105.966	-75.056	1.00	65.78	A16S
ATOM	13998	C2	U	A	672	179.022	108.000	-73.818	1.00	65.78	A16S
ATOM	13999	O2	U	A	672	179.095	109.217	-73.746	1.00	65.78	A16S
ATOM	14000	N3	U	A	672	179.092	107.197	-72.713	1.00	65.78	A16S
ATOM	14001	C4	U	A	672	179.006	105.824	-72.679	1.00	65.78	A16S
ATOM	14002	O4	U	A	672	179.054	105.241	-71.587	1.00	65.78	A16S
ATOM	14003	C5	U	A	672	178.834	105.206	-73.961	1.00	65.78	A16S
ATOM	14004	C2*	U	A	672	180.136	108.694	-76.683	1.00	63.08	A16S
ATOM	14005	O2*	U	A	672	180.005	110.060	-77.005	1.00	63.08	A16S
ATOM	14006	C3*	U	A	672	180.407	107.829	-77.906	1.00	63.08	A16S
ATOM	14007	O3*	U	A	672	181.195	108.553	-78.844	1.00	63.08	A16S

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ATOM	14008	P	G	A	673	182.737	108.886	-78.510	1.00	68.69	A16S
ATOM	14009	O1P	G	A	673	183.294	109.540	-79.731	1.00	51.26	A16S
ATOM	14010	O2P	G	A	673	183.399	107.673	-77.941	1.00	51.26	A16S
ATOM	14011	O5*	G	A	673	182.682	110.010	-77.384	1.00	68.69	A16S
ATOM	14012	C5*	G	A	673	182.540	111.389	-77.742	1.00	68.69	A16S
ATOM	14013	C4*	G	A	673	183.016	112.258	-76.618	1.00	68.69	A16S
ATOM	14014	O4*	G	A	673	182.178	112.033	-75.466	1.00	68.69	A16S
ATOM	14015	C1*	G	A	673	182.952	112.129	-74.293	1.00	68.69	A16S
ATOM	14016	N9	G	A	673	182.828	110.878	-73.566	1.00	51.26	A16S
ATOM	14017	C4	G	A	673	182.928	110.723	-72.209	1.00	51.26	A16S
ATOM	14018	N3	G	A	673	183.159	111.711	-71.315	1.00	51.26	A16S
ATOM	14019	C2	G	A	673	183.218	111.251	-70.077	1.00	51.26	A16S
ATOM	14020	N2	G	A	673	183.451	112.104	-69.069	1.00	51.26	A16S
ATOM	14021	N1	G	A	673	183.056	109.923	-69.746	1.00	51.26	A16S
ATOM	14022	C6	G	A	673	182.819	108.895	-70.656	1.00	51.26	A16S
ATOM	14023	O6	G	A	673	182.698	107.735	-70.259	1.00	51.26	A16S
ATOM	14024	C5	G	A	673	182.755	109.377	-71.981	1.00	51.26	A16S
ATOM	14025	N7	G	A	673	182.543	108.700	-73.172	1.00	51.26	A16S
ATOM	14026	C8	G	A	673	182.594	109.630	-74.084	1.00	51.26	A16S
ATOM	14027	C2*	G	A	673	184.393	112.442	-74.688	1.00	68.69	A16S
ATOM	14028	O2*	G	A	673	184.603	113.826	-74.539	1.00	68.69	A16S
ATOM	14029	C3*	G	A	673	184.430	111.981	-76.140	1.00	68.69	A16S
ATOM	14030	O3*	G	A	673	185.355	112.746	-76.913	1.00	68.69	A16S
ATOM	14031	P	G	A	674	186.825	112.164	-77.226	1.00	55.05	A16S
ATOM	14032	O1P	G	A	674	187.286	112.854	-78.466	1.00	61.25	A16S
ATOM	14033	O2P	G	A	674	186.765	110.671	-77.193	1.00	61.25	A16S
ATOM	14034	O5*	G	A	674	187.710	112.700	-76.011	1.00	55.05	A16S
ATOM	14035	C5*	G	A	674	187.972	114.104	-75.875	1.00	55.05	A16S
ATOM	14036	C4*	G	A	674	188.137	114.468	-74.426	1.00	55.05	A16S
ATOM	14037	O4*	G	A	674	186.970	114.022	-73.699	1.00	55.05	A16S
ATOM	14038	C1*	G	A	674	187.339	113.650	-72.381	1.00	55.05	A16S
ATOM	14039	N9	G	A	674	187.011	112.248	-72.165	1.00	61.25	A16S
ATOM	14040	C4	G	A	674	186.778	111.649	-70.950	1.00	61.25	A16S
ATOM	14041	N3	G	A	674	186.785	112.262	-69.749	1.00	61.25	A16S
ATOM	14042	C2	G	A	674	186.516	111.420	-68.768	1.00	61.25	A16S
ATOM	14043	N2	G	A	674	186.468	111.858	-67.502	1.00	61.25	A16S
ATOM	14044	N1	G	A	674	186.273	110.087	-68.951	1.00	61.25	A16S
ATOM	14045	C6	G	A	674	186.270	109.438	-70.176	1.00	61.25	A16S
ATOM	14046	O6	G	A	674	186.047	108.228	-70.231	1.00	61.25	A16S
ATOM	14047	C5	G	A	674	186.543	110.325	-71.234	1.00	61.25	A16S
ATOM	14048	N7	G	A	674	186.617	110.093	-72.600	1.00	61.25	A16S
ATOM	14049	C8	G	A	674	186.896	111.261	-73.112	1.00	61.25	A16S
ATOM	14050	C2*	G	A	674	188.838	113.862	-72.242	1.00	55.05	A16S
ATOM	14051	O2*	G	A	674	189.062	115.112	-71.628	1.00	55.05	A16S
ATOM	14052	C3*	G	A	674	189.287	113.805	-73.694	1.00	55.05	A16S
ATOM	14053	O3*	G	A	674	190.517	114.478	-73.869	1.00	55.05	A16S
ATOM	14054	P	A	A	675	191.878	113.744	-73.429	1.00	57.66	A16S
ATOM	14055	O1P	A	A	675	193.039	114.523	-73.960	1.00	52.42	A16S
ATOM	14056	O2P	A	A	675	191.737	112.293	-73.776	1.00	52.42	A16S
ATOM	14057	O5*	A	A	675	191.886	113.880	-71.841	1.00	57.66	A16S
ATOM	14058	C5*	A	A	675	192.151	115.139	-71.206	1.00	57.66	A16S
ATOM	14059	C4*	A	A	675	192.232	114.954	-69.718	1.00	57.66	A16S
ATOM	14060	O4*	A	A	675	190.947	114.494	-69.221	1.00	57.66	A16S
ATOM	14061	C1*	A	A	675	191.143	113.631	-68.112	1.00	57.66	A16S
ATOM	14062	N9	A	A	675	190.597	112.308	-68.432	1.00	52.42	A16S
ATOM	14063	C4	A	A	675	190.275	111.330	-67.516	1.00	52.42	A16S
ATOM	14064	N3	A	A	675	190.360	111.404	-66.174	1.00	52.42	A16S
ATOM	14065	C2	A	A	675	189.976	110.258	-65.615	1.00	52.42	A16S
ATOM	14066	N1	A	A	675	189.552	109.132	-66.200	1.00	52.42	A16S
ATOM	14067	C6	A	A	675	189.477	109.091	-67.549	1.00	52.42	A16S
ATOM	14068	N6	A	A	675	189.055	107.964	-68.132	1.00	52.42	A16S
ATOM	14069	C5	A	A	675	189.851	110.241	-68.260	1.00	52.42	A16S
ATOM	14070	N7	A	A	675	189.883	110.529	-69.617	1.00	52.42	A16S
ATOM	14071	C8	A	A	675	190.326	111.764	-69.666	1.00	52.42	A16S
ATOM	14072	C2*	A	A	675	192.647	113.552	-67.866	1.00	57.66	A16S
ATOM	14073	O2*	A	A	675	193.015	114.529	-66.917	1.00	57.66	A16S
ATOM	14074	C3*	A	A	675	193.194	113.885	-69.242	1.00	57.66	A16S
ATOM	14075	O3*	A	A	675	194.533	114.324	-69.185	1.00	57.66	A16S
ATOM	14076	P	A	A	676	195.721	113.259	-69.430	1.00	57.00	A16S
ATOM	14077	O1P	A	A	676	196.982	114.071	-69.454	1.00	45.37	A16S
ATOM	14078	O2P	A	A	676	195.368	112.396	-70.603	1.00	45.37	A16S
ATOM	14079	O5*	A	A	676	195.684	112.313	-68.141	1.00	57.00	A16S
ATOM	14080	C5*	A	A	676	195.924	112.847	-66.824	1.00	57.00	A16S
ATOM	14081	C4*	A	A	676	195.655	111.800	-65.771	1.00	57.00	A16S
ATOM	14082	O4*	A	A	676	194.256	111.440	-65.789	1.00	57.00	A16S
ATOM	14083	C1*	A	A	676	194.113	110.062	-65.496	1.00	57.00	A16S
ATOM	14084	N9	A	A	676	193.533	109.420	-66.665	1.00	45.37	A16S

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ATOM	14085	C4	A	A	676	192.931	108.190	-66.715	1.00	45.37	A16S
ATOM	14086	N3	A	A	676	192.750	107.337	-65.702	1.00	45.37	A16S
ATOM	14087	C2	A	A	676	192.125	106.242	-66.124	1.00	45.37	A16S
ATOM	14088	N1	A	A	676	191.697	105.933	-67.353	1.00	45.37	A16S
ATOM	14089	C6	A	A	676	191.893	106.822	-68.344	1.00	45.37	A16S
ATOM	14090	N6	A	A	676	191.455	106.522	-69.566	1.00	45.37	A16S
ATOM	14091	C5	A	A	676	192.543	108.013	-68.026	1.00	45.37	A16S
ATOM	14092	N7	A	A	676	192.888	109.113	-68.790	1.00	45.37	A16S
ATOM	14093	C8	A	A	676	193.474	109.917	-67.938	1.00	45.37	A16S
ATOM	14094	C2*	A	A	676	195.496	109.505	-65.192	1.00	57.00	A16S
ATOM	14095	O2*	A	A	676	195.701	109.558	-63.795	1.00	57.00	A16S
ATOM	14096	C3*	A	A	676	196.379	110.481	-65.949	1.00	57.00	A16S
ATOM	14097	O3*	A	A	676	197.678	110.532	-65.413	1.00	57.00	A16S
ATOM	14098	P	U	A	677	198.794	109.529	-65.977	1.00	59.88	A16S
ATOM	14099	O1P	U	A	677	200.091	109.966	-65.400	1.00	52.56	A16S
ATOM	14100	O2P	U	A	677	198.639	109.421	-67.458	1.00	52.56	A16S
ATOM	14101	O5*	U	A	677	198.427	108.139	-65.297	1.00	59.88	A16S
ATOM	14102	C5*	U	A	677	198.550	107.996	-63.883	1.00	59.88	A16S
ATOM	14103	C4*	U	A	677	198.056	106.649	-63.445	1.00	59.88	A16S
ATOM	14104	O4*	U	A	677	196.649	106.514	-63.752	1.00	59.88	A16S
ATOM	14105	C1*	U	A	677	196.364	105.169	-64.083	1.00	59.88	A16S
ATOM	14106	N1	U	A	677	195.815	105.120	-65.448	1.00	52.56	A16S
ATOM	14107	C6	U	A	677	195.959	106.160	-66.337	1.00	52.56	A16S
ATOM	14108	C2	U	A	677	195.128	103.978	-65.807	1.00	52.56	A16S
ATOM	14109	O2	U	A	677	194.982	103.043	-65.050	1.00	52.56	A16S
ATOM	14110	N3	U	A	677	194.613	103.975	-67.078	1.00	52.56	A16S
ATOM	14111	C4	U	A	677	194.703	104.981	-68.007	1.00	52.56	A16S
ATOM	14112	O4	U	A	677	194.131	104.853	-69.089	1.00	52.56	A16S
ATOM	14113	C5	U	A	677	195.437	106.132	-67.570	1.00	52.56	A16S
ATOM	14114	C2*	U	A	677	197.655	104.374	-63.926	1.00	59.88	A16S
ATOM	14115	O2*	U	A	677	197.685	103.830	-62.621	1.00	59.88	A16S
ATOM	14116	C3*	U	A	677	198.698	105.462	-64.125	1.00	59.88	A16S
ATOM	14117	O3*	U	A	677	199.944	105.147	-63.545	1.00	59.88	A16S
ATOM	14118	P	U	A	678	201.118	104.580	-64.482	1.00	57.36	A16S
ATOM	14119	O1P	U	A	678	202.363	104.540	-63.652	1.00	46.41	A16S
ATOM	14120	O2P	U	A	678	201.101	105.376	-65.753	1.00	46.41	A16S
ATOM	14121	O5*	U	A	678	200.642	103.088	-64.798	1.00	57.36	A16S
ATOM	14122	C5*	U	A	678	200.432	102.149	-63.733	1.00	57.36	A16S
ATOM	14123	C4*	U	A	678	199.842	100.878	-64.271	1.00	57.36	A16S
ATOM	14124	O4*	U	A	678	198.479	101.114	-64.686	1.00	57.36	A16S
ATOM	14125	C1*	U	A	678	198.192	100.358	-65.850	1.00	57.36	A16S
ATOM	14126	N1	U	A	678	197.918	101.295	-66.949	1.00	46.41	A16S
ATOM	14127	C6	U	A	678	198.287	102.612	-66.861	1.00	46.41	A16S
ATOM	14128	C2	U	A	678	197.276	100.807	-68.076	1.00	46.41	A16S
ATOM	14129	O2	U	A	678	196.960	99.636	-68.206	1.00	46.41	A16S
ATOM	14130	N3	U	A	678	197.027	101.740	-69.048	1.00	46.41	A16S
ATOM	14131	C4	U	A	678	197.357	103.078	-69.012	1.00	46.41	A16S
ATOM	14132	O4	U	A	678	197.031	103.814	-69.949	1.00	46.41	A16S
ATOM	14133	C5	U	A	678	198.037	103.493	-67.824	1.00	46.41	A16S
ATOM	14134	C2*	U	A	678	199.418	99.510	-66.164	1.00	57.36	A16S
ATOM	14135	O2*	U	A	678	199.266	98.217	-65.617	1.00	57.36	A16S
ATOM	14136	C3*	U	A	678	200.520	100.330	-65.512	1.00	57.36	A16S
ATOM	14137	O3*	U	A	678	201.681	99.564	-65.232	1.00	57.36	A16S
ATOM	14138	P	C	A	679	202.857	99.502	-66.324	1.00	62.38	A16S
ATOM	14139	O1P	C	A	679	204.000	98.805	-65.692	1.00	43.94	A16S
ATOM	14140	O2P	C	A	679	203.049	100.875	-66.882	1.00	43.94	A16S
ATOM	14141	O5*	C	A	679	202.262	98.557	-67.461	1.00	62.38	A16S
ATOM	14142	C5*	C	A	679	201.913	97.193	-67.179	1.00	62.38	A16S
ATOM	14143	C4*	C	A	679	201.284	96.561	-68.394	1.00	62.38	A16S
ATOM	14144	O4*	C	A	679	200.044	97.254	-68.681	1.00	62.38	A16S
ATOM	14145	C1*	C	A	679	199.875	97.377	-70.083	1.00	62.38	A16S
ATOM	14146	N1	C	A	679	199.874	98.806	-70.428	1.00	43.94	A16S
ATOM	14147	C6	C	A	679	200.586	99.708	-69.691	1.00	43.94	A16S
ATOM	14148	C2	C	A	679	199.122	99.229	-71.527	1.00	43.94	A16S
ATOM	14149	O2	C	A	679	198.512	98.380	-72.201	1.00	43.94	A16S
ATOM	14150	N3	C	A	679	199.082	100.544	-71.835	1.00	43.94	A16S
ATOM	14151	C4	C	A	679	199.771	101.419	-71.101	1.00	43.94	A16S
ATOM	14152	N4	C	A	679	199.696	102.714	-71.434	1.00	43.94	A16S
ATOM	14153	C5	C	A	679	200.567	101.009	-69.990	1.00	43.94	A16S
ATOM	14154	C2*	C	A	679	201.022	96.639	-70.765	1.00	62.38	A16S
ATOM	14155	O2*	C	A	679	200.580	95.346	-71.118	1.00	62.38	A16S
ATOM	14156	C3*	C	A	679	202.092	96.685	-69.678	1.00	62.38	A16S
ATOM	14157	O3*	C	A	679	203.092	95.683	-69.813	1.00	62.38	A16S
ATOM	14158	P	C	A	680	204.463	96.037	-70.579	1.00	66.85	A16S
ATOM	14159	O1P	C	A	680	205.384	94.900	-70.319	1.00	63.58	A16S
ATOM	14160	O2P	C	A	680	204.877	97.428	-70.227	1.00	63.58	A16S
ATOM	14161	O5*	C	A	680	204.044	96.026	-72.117	1.00	66.85	A16S

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ATOM	14162	C5*	C	A	680	203.456	94.850	-72.708	1.00	66.85	A16S
ATOM	14163	C4*	C	A	680	202.940	95.153	-74.097	1.00	66.85	A16S
ATOM	14164	O4*	C	A	680	201.779	96.015	-74.020	1.00	66.85	A16S
ATOM	14165	C1*	C	A	680	201.744	96.866	-75.152	1.00	66.85	A16S
ATOM	14166	N1	C	A	680	201.831	98.263	-74.710	1.00	63.58	A16S
ATOM	14167	C6	C	A	680	202.242	98.592	-73.446	1.00	63.58	A16S
ATOM	14168	C2	C	A	680	201.495	99.264	-75.625	1.00	63.58	A16S
ATOM	14169	O2	C	A	680	201.130	98.929	-76.763	1.00	63.58	A16S
ATOM	14170	N3	C	A	680	201.583	100.565	-75.252	1.00	63.58	A16S
ATOM	14171	C4	C	A	680	201.995	100.878	-74.021	1.00	63.58	A16S
ATOM	14172	N4	C	A	680	202.086	102.175	-73.700	1.00	63.58	A16S
ATOM	14173	C5	C	A	680	202.339	99.875	-73.062	1.00	63.58	A16S
ATOM	14174	C2*	C	A	680	202.941	96.530	-76.032	1.00	66.85	A16S
ATOM	14175	O2*	C	A	680	202.529	95.668	-77.069	1.00	66.85	A16S
ATOM	14176	C3*	C	A	680	203.888	95.893	-75.026	1.00	66.85	A16S
ATOM	14177	O3*	C	A	680	204.845	95.050	-75.646	1.00	66.85	A16S
ATOM	14178	P	C	A	681	206.263	95.666	-76.088	1.00	74.18	A16S
ATOM	14179	O1P	C	A	681	207.115	94.518	-76.508	1.00	77.45	A16S
ATOM	14180	O2P	C	A	681	206.739	96.576	-75.011	1.00	77.45	A16S
ATOM	14181	O5*	C	A	681	205.909	96.542	-77.372	1.00	74.18	A16S
ATOM	14182	C5*	C	A	681	205.424	95.909	-78.566	1.00	74.18	A16S
ATOM	14183	C4*	C	A	681	205.251	96.922	-79.663	1.00	74.18	A16S
ATOM	14184	O4*	C	A	681	204.137	97.794	-79.343	1.00	74.18	A16S
ATOM	14185	C1*	C	A	681	204.401	99.104	-79.825	1.00	74.18	A16S
ATOM	14186	N1	C	A	681	204.454	100.039	-78.678	1.00	77.45	A16S
ATOM	14187	C6	C	A	681	204.900	99.629	-77.450	1.00	77.45	A16S
ATOM	14188	C2	C	A	681	204.066	101.377	-78.876	1.00	77.45	A16S
ATOM	14189	O2	C	A	681	203.633	101.720	-79.983	1.00	77.45	A16S
ATOM	14190	N3	C	A	681	204.175	102.260	-77.853	1.00	77.45	A16S
ATOM	14191	C4	C	A	681	204.639	101.855	-76.670	1.00	77.45	A16S
ATOM	14192	N4	C	A	681	204.755	102.767	-75.698	1.00	77.45	A16S
ATOM	14193	C5	C	A	681	205.011	100.495	-76.430	1.00	77.45	A16S
ATOM	14194	C2*	C	A	681	205.747	99.058	-80.553	1.00	74.18	A16S
ATOM	14195	O2*	C	A	681	205.562	98.846	-81.939	1.00	74.18	A16S
ATOM	14196	C3*	C	A	681	206.415	97.873	-79.876	1.00	74.18	A16S
ATOM	14197	O3*	C	A	681	207.474	97.333	-80.649	1.00	74.18	A16S
ATOM	14198	P	G	A	682	208.970	97.893	-80.431	1.00	79.88	A16S
ATOM	14199	O1P	G	A	682	209.861	97.088	-81.310	1.00	84.90	A16S
ATOM	14200	O2P	G	A	682	209.259	97.974	-78.976	1.00	84.90	A16S
ATOM	14201	O5*	G	A	682	208.905	99.377	-81.003	1.00	79.88	A16S
ATOM	14202	C5*	G	A	682	208.660	99.584	-82.393	1.00	79.88	A16S
ATOM	14203	C4*	G	A	682	208.605	101.049	-82.716	1.00	79.88	A16S
ATOM	14204	O4*	G	A	682	207.387	101.633	-82.190	1.00	79.88	A16S
ATOM	14205	C1*	G	A	682	207.619	102.994	-81.867	1.00	79.88	A16S
ATOM	14206	N9	G	A	682	207.482	103.167	-80.425	1.00	84.90	A16S
ATOM	14207	C4	G	A	682	207.416	104.371	-79.767	1.00	84.90	A16S
ATOM	14208	N3	G	A	682	207.415	105.589	-80.349	1.00	84.90	A16S
ATOM	14209	C2	G	A	682	207.363	106.557	-79.457	1.00	84.90	A16S
ATOM	14210	N2	G	A	682	207.338	107.829	-79.866	1.00	84.90	A16S
ATOM	14211	N1	G	A	682	207.327	106.346	-78.099	1.00	84.90	A16S
ATOM	14212	C6	G	A	682	207.330	105.099	-77.482	1.00	84.90	A16S
ATOM	14213	O6	G	A	682	207.302	105.018	-76.253	1.00	84.90	A16S
ATOM	14214	C5	G	A	682	207.373	104.054	-78.427	1.00	84.90	A16S
ATOM	14215	N7	G	A	682	207.384	102.678	-78.245	1.00	84.90	A16S
ATOM	14216	C8	G	A	682	207.442	102.192	-79.455	1.00	84.90	A16S
ATOM	14217	C2*	G	A	682	209.061	103.310	-82.251	1.00	79.88	A16S
ATOM	14218	O2*	G	A	682	209.097	103.850	-83.558	1.00	79.88	A16S
ATOM	14219	C3*	G	A	682	209.698	101.934	-82.151	1.00	79.88	A16S
ATOM	14220	O3*	G	A	682	210.932	101.854	-82.830	1.00	79.88	A16S
ATOM	14221	P	G	A	683	212.282	102.226	-82.037	1.00	80.13	A16S
ATOM	14222	O1P	G	A	683	213.428	101.791	-82.874	1.00	78.70	A16S
ATOM	14223	O2P	G	A	683	212.171	101.727	-80.637	1.00	78.70	A16S
ATOM	14224	O5*	G	A	683	212.265	103.818	-81.999	1.00	80.13	A16S
ATOM	14225	C5*	G	A	683	211.984	104.570	-83.189	1.00	80.13	A16S
ATOM	14226	C4*	G	A	683	211.910	106.041	-82.876	1.00	80.13	A16S
ATOM	14227	O4*	G	A	683	210.756	106.321	-82.038	1.00	80.13	A16S
ATOM	14228	C1*	G	A	683	211.064	107.385	-81.148	1.00	80.13	A16S
ATOM	14229	N9	G	A	683	210.862	106.929	-79.769	1.00	78.70	A16S
ATOM	14230	C4	G	A	683	210.665	107.726	-78.658	1.00	78.70	A16S
ATOM	14231	N3	G	A	683	210.614	109.079	-78.644	1.00	78.70	A16S
ATOM	14232	C2	G	A	683	210.419	109.561	-77.424	1.00	78.70	A16S
ATOM	14233	N2	G	A	683	210.350	110.888	-77.235	1.00	78.70	A16S
ATOM	14234	N1	G	A	683	210.278	108.779	-76.304	1.00	78.70	A16S
ATOM	14235	C6	G	A	683	210.318	107.387	-76.290	1.00	78.70	A16S
ATOM	14236	O6	G	A	683	210.167	106.776	-75.218	1.00	78.70	A16S
ATOM	14237	C5	G	A	683	210.535	106.854	-77.600	1.00	78.70	A16S
ATOM	14238	N7	G	A	683	210.643	105.539	-78.032	1.00	78.70	A16S

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ATOM	14239	C8	G	A	683	210.833	105.632	-79.319	1.00	78.70	A16S
ATOM	14240	C2*	G	A	683	212.499	107.839	-81.444	1.00	80.13	A16S
ATOM	14241	O2*	G	A	683	212.492	108.950	-82.323	1.00	80.13	A16S
ATOM	14242	C3*	G	A	683	213.089	106.600	-82.103	1.00	80.13	A16S
ATOM	14243	O3*	G	A	683	214.176	106.914	-82.957	1.00	80.13	A16S
ATOM	14244	P	A	A	684	215.678	106.789	-82.402	1.00	70.42	A16S
ATOM	14245	O1P	A	A	684	216.605	107.074	-83.542	1.00	73.57	A16S
ATOM	14246	O2P	A	A	684	215.794	105.497	-81.663	1.00	73.57	A16S
ATOM	14247	O5*	A	A	684	215.802	107.977	-81.345	1.00	70.42	A16S
ATOM	14248	C5*	A	A	684	215.678	109.352	-81.756	1.00	70.42	A16S
ATOM	14249	C4*	A	A	684	215.537	110.250	-80.549	1.00	70.42	A16S
ATOM	14250	O4*	A	A	684	214.282	109.972	-79.881	1.00	70.42	A16S
ATOM	14251	C1*	A	A	684	214.446	110.083	-78.478	1.00	70.42	A16S
ATOM	14252	N9	A	A	684	214.247	108.756	-77.897	1.00	73.57	A16S
ATOM	14253	C4	A	A	684	213.915	108.465	-76.596	1.00	73.57	A16S
ATOM	14254	N3	A	A	684	213.701	109.332	-75.593	1.00	73.57	A16S
ATOM	14255	C2	A	A	684	213.396	108.687	-74.473	1.00	73.57	A16S
ATOM	14256	N1	A	A	684	213.285	107.373	-74.258	1.00	73.57	A16S
ATOM	14257	C6	A	A	684	213.495	106.530	-75.288	1.00	73.57	A16S
ATOM	14258	N6	A	A	684	213.360	105.218	-75.078	1.00	73.57	A16S
ATOM	14259	C5	A	A	684	213.837	107.088	-76.527	1.00	73.57	A16S
ATOM	14260	N7	A	A	684	214.122	106.518	-77.757	1.00	73.57	A16S
ATOM	14261	C8	A	A	684	214.356	107.547	-78.533	1.00	73.57	A16S
ATOM	14262	C2*	A	A	684	215.864	110.576	-78.223	1.00	70.42	A16S
ATOM	14263	O2*	A	A	684	215.861	111.988	-78.133	1.00	70.42	A16S
ATOM	14264	C3*	A	A	684	216.580	110.060	-79.462	1.00	70.42	A16S
ATOM	14265	O3*	A	A	684	217.797	110.736	-79.725	1.00	70.42	A16S
ATOM	14266	P	G	A	685	219.176	110.100	-79.194	1.00	79.24	A16S
ATOM	14267	O1P	G	A	685	220.250	111.071	-79.521	1.00	63.84	A16S
ATOM	14268	O2P	G	A	685	219.295	108.671	-79.629	1.00	63.84	A16S
ATOM	14269	O5*	G	A	685	219.003	110.125	-77.618	1.00	79.24	A16S
ATOM	14270	C5*	G	A	685	218.801	111.368	-76.934	1.00	79.24	A16S
ATOM	14271	C4*	G	A	685	218.657	111.115	-75.465	1.00	79.24	A16S
ATOM	14272	O4*	G	A	685	217.425	110.398	-75.218	1.00	79.24	A16S
ATOM	14273	C1*	G	A	685	217.617	109.495	-74.150	1.00	79.24	A16S
ATOM	14274	N9	G	A	685	217.229	108.159	-74.586	1.00	63.84	A16S
ATOM	14275	C4	G	A	685	216.764	107.166	-73.766	1.00	63.84	A16S
ATOM	14276	N3	G	A	685	216.594	107.262	-72.432	1.00	63.84	A16S
ATOM	14277	C2	G	A	685	216.120	106.146	-71.915	1.00	63.84	A16S
ATOM	14278	N2	G	A	685	215.891	106.067	-70.594	1.00	63.84	A16S
ATOM	14279	N1	G	A	685	215.836	105.023	-72.648	1.00	63.84	A16S
ATOM	14280	C6	G	A	685	216.002	104.901	-74.019	1.00	63.84	A16S
ATOM	14281	O6	G	A	685	215.705	103.842	-74.578	1.00	63.84	A16S
ATOM	14282	C5	G	A	685	216.513	106.095	-74.591	1.00	63.84	A16S
ATOM	14283	N7	G	A	685	216.819	106.407	-75.909	1.00	63.84	A16S
ATOM	14284	C8	G	A	685	217.243	107.642	-75.857	1.00	63.84	A16S
ATOM	14285	C2*	G	A	685	219.068	109.595	-73.680	1.00	79.24	A16S
ATOM	14286	O2*	G	A	685	219.135	110.381	-72.505	1.00	79.24	A16S
ATOM	14287	C3*	G	A	685	219.743	110.227	-74.892	1.00	79.24	A16S
ATOM	14288	O3*	G	A	685	220.887	111.006	-74.578	1.00	79.24	A16S
ATOM	14289	P	U	A	686	222.234	110.282	-74.088	1.00	64.06	A16S
ATOM	14290	O1P	U	A	686	223.203	111.350	-73.694	1.00	61.25	A16S
ATOM	14291	O2P	U	A	686	222.654	109.189	-75.016	1.00	61.25	A16S
ATOM	14292	O5*	U	A	686	221.783	109.559	-72.766	1.00	64.06	A16S
ATOM	14293	C5*	U	A	686	222.751	109.032	-71.924	1.00	64.06	A16S
ATOM	14294	C4*	U	A	686	222.292	109.137	-70.521	1.00	64.06	A16S
ATOM	14295	O4*	U	A	686	220.992	108.506	-70.404	1.00	64.06	A16S
ATOM	14296	C1*	U	A	686	221.082	107.410	-69.523	1.00	64.06	A16S
ATOM	14297	N1	U	A	686	220.136	106.369	-69.960	1.00	61.25	A16S
ATOM	14298	C6	U	A	686	220.007	106.012	-71.277	1.00	61.25	A16S
ATOM	14299	C2	U	A	686	219.364	105.755	-68.983	1.00	61.25	A16S
ATOM	14300	O2	U	A	686	219.430	106.042	-67.805	1.00	61.25	A16S
ATOM	14301	N3	U	A	686	218.507	104.789	-69.434	1.00	61.25	A16S
ATOM	14302	C4	U	A	686	218.338	104.376	-70.729	1.00	61.25	A16S
ATOM	14303	O4	U	A	686	217.550	103.457	-70.970	1.00	61.25	A16S
ATOM	14304	C5	U	A	686	219.155	105.064	-71.686	1.00	61.25	A16S
ATOM	14305	C2*	U	A	686	222.562	107.027	-69.482	1.00	64.06	A16S
ATOM	14306	O2*	U	A	686	222.924	106.417	-68.271	1.00	64.06	A16S
ATOM	14307	C3*	U	A	686	223.228	108.389	-69.608	1.00	64.06	A16S
ATOM	14308	O3*	U	A	686	223.242	109.082	-68.382	1.00	64.06	A16S
ATOM	14309	P	A	A	687	224.542	109.021	-67.455	1.00	51.21	A16S
ATOM	14310	O1P	A	A	687	224.887	110.443	-67.079	1.00	48.09	A16S
ATOM	14311	O2P	A	A	687	225.567	108.140	-68.094	1.00	48.09	A16S
ATOM	14312	O5*	A	A	687	224.052	108.241	-66.161	1.00	51.21	A16S
ATOM	14313	C5*	A	A	687	223.141	108.845	-65.241	1.00	51.21	A16S
ATOM	14314	C4*	A	A	687	222.611	107.801	-64.313	1.00	51.21	A16S
ATOM	14315	O4*	A	A	687	221.690	106.944	-65.018	1.00	51.21	A16S

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ATOM	14316	C1*	A	A	687	221.819	105.625	-64.540	1.00	51.21	A16S
ATOM	14317	N9	A	A	687	221.353	104.729	-65.595	1.00	48.09	A16S
ATOM	14318	C4	A	A	687	220.267	103.885	-65.532	1.00	48.09	A16S
ATOM	14319	N3	A	A	687	219.448	103.679	-64.490	1.00	48.09	A16S
ATOM	14320	C2	A	A	687	218.508	102.788	-64.799	1.00	48.09	A16S
ATOM	14321	N1	A	A	687	218.303	102.140	-65.942	1.00	48.09	A16S
ATOM	14322	C6	A	A	687	219.138	102.376	-66.975	1.00	48.09	A16S
ATOM	14323	N6	A	A	687	218.927	101.741	-68.129	1.00	48.09	A16S
ATOM	14324	C5	A	A	687	220.183	103.287	-66.774	1.00	48.09	A16S
ATOM	14325	N7	A	A	687	221.204	103.731	-67.601	1.00	48.09	A16S
ATOM	14326	C8	A	A	687	221.870	104.573	-66.851	1.00	48.09	A16S
ATOM	14327	C2*	A	A	687	223.282	105.450	-64.138	1.00	51.21	A16S
ATOM	14328	O2*	A	A	687	223.355	104.491	-63.098	1.00	51.21	A16S
ATOM	14329	C3*	A	A	687	223.674	106.881	-63.747	1.00	51.21	A16S
ATOM	14330	O3*	A	A	687	224.312	107.296	-62.535	1.00	51.21	A16S
ATOM	14331	P	G	A	688	223.562	107.165	-61.116	1.00	58.30	A16S
ATOM	14332	O1P	G	A	688	224.550	107.620	-60.106	1.00	33.52	A16S
ATOM	14333	O2P	G	A	688	222.902	105.834	-60.948	1.00	33.52	A16S
ATOM	14334	O5*	G	A	688	222.432	108.279	-61.175	1.00	58.30	A16S
ATOM	14335	C5*	G	A	688	221.250	108.138	-60.380	1.00	58.30	A16S
ATOM	14336	C4*	G	A	688	220.094	107.721	-61.252	1.00	58.30	A16S
ATOM	14337	O4*	G	A	688	220.291	106.367	-61.743	1.00	58.30	A16S
ATOM	14338	C1*	G	A	688	219.045	105.692	-61.815	1.00	58.30	A16S
ATOM	14339	N9	G	A	688	219.079	104.614	-60.833	1.00	33.52	A16S
ATOM	14340	C4	G	A	688	218.128	103.636	-60.614	1.00	33.52	A16S
ATOM	14341	N3	G	A	688	216.970	103.480	-61.288	1.00	33.52	A16S
ATOM	14342	C2	G	A	688	216.291	102.418	-60.869	1.00	33.52	A16S
ATOM	14343	N2	G	A	688	215.140	102.088	-61.464	1.00	33.52	A16S
ATOM	14344	N1	G	A	688	216.702	101.598	-59.847	1.00	33.52	A16S
ATOM	14345	C6	G	A	688	217.888	101.757	-59.129	1.00	33.52	A16S
ATOM	14346	O6	G	A	688	218.179	100.970	-58.217	1.00	33.52	A16S
ATOM	14347	C5	G	A	688	218.630	102.865	-59.585	1.00	33.52	A16S
ATOM	14348	N7	G	A	688	219.859	103.343	-59.165	1.00	33.52	A16S
ATOM	14349	C8	G	A	688	220.084	104.378	-59.929	1.00	33.52	A16S
ATOM	14350	C2*	G	A	688	217.974	106.721	-61.474	1.00	58.30	A16S
ATOM	14351	O2*	G	A	688	217.585	107.392	-62.661	1.00	58.30	A16S
ATOM	14352	C3*	G	A	688	218.753	107.650	-60.561	1.00	58.30	A16S
ATOM	14353	O3*	G	A	688	218.165	108.925	-60.414	1.00	58.30	A16S
ATOM	14354	P	C	A	689	217.305	109.224	-59.099	1.00	48.20	A16S
ATOM	14355	O1P	C	A	689	217.106	110.701	-59.045	1.00	34.88	A16S
ATOM	14356	O2P	C	A	689	217.974	108.522	-57.964	1.00	34.88	A16S
ATOM	14357	O5*	C	A	689	215.913	108.507	-59.403	1.00	48.20	A16S
ATOM	14358	C5*	C	A	689	215.183	108.808	-60.617	1.00	48.20	A16S
ATOM	14359	C4*	C	A	689	214.079	107.797	-60.838	1.00	48.20	A16S
ATOM	14360	O4*	C	A	689	214.663	106.474	-60.929	1.00	48.20	A16S
ATOM	14361	C1*	C	A	689	213.811	105.526	-60.320	1.00	48.20	A16S
ATOM	14362	N1	C	A	689	214.514	104.929	-59.178	1.00	34.88	A16S
ATOM	14363	C6	C	A	689	215.685	105.465	-58.713	1.00	34.88	A16S
ATOM	14364	C2	C	A	689	213.963	103.776	-58.566	1.00	34.88	A16S
ATOM	14365	O2	C	A	689	212.885	103.308	-59.007	1.00	34.88	A16S
ATOM	14366	N3	C	A	689	214.619	103.206	-57.522	1.00	34.88	A16S
ATOM	14367	C4	C	A	689	215.773	103.731	-57.094	1.00	34.88	A16S
ATOM	14368	N4	C	A	689	216.399	103.126	-56.084	1.00	34.88	A16S
ATOM	14369	C5	C	A	689	216.343	104.902	-57.691	1.00	34.88	A16S
ATOM	14370	C2*	C	A	689	212.545	106.248	-59.890	1.00	48.20	A16S
ATOM	14371	O2*	C	A	689	211.598	106.091	-60.925	1.00	48.20	A16S
ATOM	14372	C3*	C	A	689	213.060	107.671	-59.717	1.00	48.20	A16S
ATOM	14373	O3*	C	A	689	212.037	108.655	-59.788	1.00	48.20	A16S
ATOM	14374	P	G	A	690	211.456	109.275	-58.427	1.00	42.10	A16S
ATOM	14375	O1P	G	A	690	210.337	110.152	-58.842	1.00	42.71	A16S
ATOM	14376	O2P	G	A	690	212.573	109.835	-57.608	1.00	42.71	A16S
ATOM	14377	O5*	G	A	690	210.866	108.015	-57.652	1.00	42.10	A16S
ATOM	14378	C5*	G	A	690	209.778	107.261	-58.199	1.00	42.10	A16S
ATOM	14379	C4*	G	A	690	209.539	106.029	-57.366	1.00	42.10	A16S
ATOM	14380	O4*	G	A	690	210.739	105.223	-57.376	1.00	42.10	A16S
ATOM	14381	C1*	G	A	690	210.955	104.651	-56.098	1.00	42.10	A16S
ATOM	14382	N9	G	A	690	212.227	105.171	-55.612	1.00	42.71	A16S
ATOM	14383	C4	G	A	690	213.090	104.585	-54.717	1.00	42.71	A16S
ATOM	14384	N3	G	A	690	212.898	103.415	-54.068	1.00	42.71	A16S
ATOM	14385	C2	G	A	690	213.935	103.113	-53.274	1.00	42.71	A16S
ATOM	14386	N2	G	A	690	213.919	101.991	-52.516	1.00	42.71	A16S
ATOM	14387	N1	G	A	690	215.065	103.889	-53.157	1.00	42.71	A16S
ATOM	14388	C6	G	A	690	215.281	105.092	-53.830	1.00	42.71	A16S
ATOM	14389	O6	G	A	690	216.357	105.711	-53.680	1.00	42.71	A16S
ATOM	14390	C5	G	A	690	214.173	105.439	-54.649	1.00	42.71	A16S
ATOM	14391	N7	G	A	690	213.975	106.551	-55.452	1.00	42.71	A16S
ATOM	14392	C8	G	A	690	212.812	106.353	-55.998	1.00	42.71	A16S

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ATOM	14393	C2*	G	A	690	209.745	105.004	-55.233	1.00	42.10	A16S
ATOM	14394	O2*	G	A	690	208.825	103.940	-55.365	1.00	42.10	A16S
ATOM	14395	C3*	G	A	690	209.245	106.285	-55.897	1.00	42.10	A16S
ATOM	14396	O3*	G	A	690	207.839	106.471	-55.734	1.00	42.10	A16S
ATOM	14397	P	G	A	691	207.278	107.762	-54.950	1.00	47.33	A16S
ATOM	14398	O1P	G	A	691	205.818	107.752	-55.228	1.00	53.12	A16S
ATOM	14399	O2P	G	A	691	208.073	108.990	-55.261	1.00	53.12	A16S
ATOM	14400	O5*	G	A	691	207.521	107.351	-53.436	1.00	47.33	A16S
ATOM	14401	C5*	G	A	691	206.845	106.216	-52.919	1.00	47.33	A16S
ATOM	14402	C4*	G	A	691	207.653	105.568	-51.839	1.00	47.33	A16S
ATOM	14403	O4*	G	A	691	208.905	105.101	-52.377	1.00	47.33	A16S
ATOM	14404	C1*	G	A	691	209.904	105.168	-51.372	1.00	47.33	A16S
ATOM	14405	N9	G	A	691	210.923	106.112	-51.804	1.00	53.12	A16S
ATOM	14406	C4	G	A	691	212.255	106.090	-51.476	1.00	53.12	A16S
ATOM	14407	N3	G	A	691	212.878	105.127	-50.761	1.00	53.12	A16S
ATOM	14408	C2	G	A	691	214.154	105.404	-50.579	1.00	53.12	A16S
ATOM	14409	N2	G	A	691	214.945	104.517	-49.936	1.00	53.12	A16S
ATOM	14410	N1	G	A	691	214.752	106.567	-51.030	1.00	53.12	A16S
ATOM	14411	C6	G	A	691	214.107	107.578	-51.756	1.00	53.12	A16S
ATOM	14412	O6	G	A	691	214.715	108.620	-52.091	1.00	53.12	A16S
ATOM	14413	C5	G	A	691	212.773	107.259	-51.993	1.00	53.12	A16S
ATOM	14414	N7	G	A	691	211.806	107.967	-52.685	1.00	53.12	A16S
ATOM	14415	C8	G	A	691	210.727	107.243	-52.560	1.00	53.12	A16S
ATOM	14416	C2*	G	A	691	209.246	105.700	-50.097	1.00	47.33	A16S
ATOM	14417	O2*	G	A	691	208.888	104.611	-49.267	1.00	47.33	A16S
ATOM	14418	C3*	G	A	691	208.053	106.450	-50.674	1.00	47.33	A16S
ATOM	14419	O3*	G	A	691	206.985	106.578	-49.761	1.00	47.33	A16S
ATOM	14420	P	U	A	692	206.692	107.997	-49.079	1.00	47.77	A16S
ATOM	14421	O1P	U	A	692	205.277	107.973	-48.634	1.00	71.61	A16S
ATOM	14422	O2P	U	A	692	207.168	109.087	-49.971	1.00	71.61	A16S
ATOM	14423	O5*	U	A	692	207.588	107.926	-47.779	1.00	47.77	A16S
ATOM	14424	C5*	U	A	692	207.403	106.834	-46.889	1.00	47.77	A16S
ATOM	14425	C4*	U	A	692	208.405	106.898	-45.790	1.00	47.77	A16S
ATOM	14426	O4*	U	A	692	209.688	106.414	-46.241	1.00	47.77	A16S
ATOM	14427	C1*	U	A	692	210.712	107.156	-45.615	1.00	47.77	A16S
ATOM	14428	N1	U	A	692	211.525	107.784	-46.669	1.00	71.61	A16S
ATOM	14429	C6	U	A	692	210.964	108.213	-47.852	1.00	71.61	A16S
ATOM	14430	C2	U	A	692	212.878	107.936	-46.432	1.00	71.61	A16S
ATOM	14431	O2	U	A	692	213.419	107.555	-45.406	1.00	71.61	A16S
ATOM	14432	N3	U	A	692	213.578	108.548	-47.442	1.00	71.61	A16S
ATOM	14433	C4	U	A	692	213.080	109.009	-48.639	1.00	71.61	A16S
ATOM	14434	O4	U	A	692	213.839	109.580	-49.433	1.00	71.61	A16S
ATOM	14435	C5	U	A	692	211.676	108.802	-48.816	1.00	71.61	A16S
ATOM	14436	C2*	U	A	692	210.045	108.152	-44.658	1.00	47.77	A16S
ATOM	14437	O2*	U	A	692	209.964	107.567	-43.373	1.00	47.77	A16S
ATOM	14438	C3*	U	A	692	208.662	108.294	-45.278	1.00	47.77	A16S
ATOM	14439	O3*	U	A	692	207.642	108.635	-44.357	1.00	47.77	A16S
ATOM	14440	P	G	A	693	207.486	110.152	-43.866	1.00	59.26	A16S
ATOM	14441	O1P	G	A	693	206.049	110.318	-43.489	1.00	42.99	A16S
ATOM	14442	O2P	G	A	693	208.069	111.041	-44.910	1.00	42.99	A16S
ATOM	14443	O5*	G	A	693	208.422	110.196	-42.566	1.00	59.26	A16S
ATOM	14444	C5*	G	A	693	208.684	111.435	-41.889	1.00	59.26	A16S
ATOM	14445	C4*	G	A	693	210.044	111.414	-41.235	1.00	59.26	A16S
ATOM	14446	O4*	G	A	693	210.032	110.602	-40.041	1.00	59.26	A16S
ATOM	14447	C1*	G	A	693	211.289	109.976	-39.877	1.00	59.26	A16S
ATOM	14448	N9	G	A	693	211.058	108.535	-39.771	1.00	42.99	A16S
ATOM	14449	C4	G	A	693	211.922	107.578	-39.282	1.00	42.99	A16S
ATOM	14450	N3	G	A	693	213.176	107.791	-38.835	1.00	42.99	A16S
ATOM	14451	C2	G	A	693	213.756	106.660	-38.439	1.00	42.99	A16S
ATOM	14452	N2	G	A	693	215.031	106.665	-37.996	1.00	42.99	A16S
ATOM	14453	N1	G	A	693	213.138	105.432	-38.456	1.00	42.99	A16S
ATOM	14454	C6	G	A	693	211.844	105.193	-38.903	1.00	42.99	A16S
ATOM	14455	O6	G	A	693	211.371	104.039	-38.863	1.00	42.99	A16S
ATOM	14456	C5	G	A	693	211.224	106.384	-39.355	1.00	42.99	A16S
ATOM	14457	N7	G	A	693	209.959	106.582	-39.891	1.00	42.99	A16S
ATOM	14458	C8	G	A	693	209.905	107.866	-40.126	1.00	42.99	A16S
ATOM	14459	C2*	G	A	693	212.194	110.434	-41.027	1.00	59.26	A16S
ATOM	14460	O2*	G	A	693	212.964	111.519	-40.571	1.00	59.26	A16S
ATOM	14461	O3*	G	A	693	211.186	110.891	-42.079	1.00	59.26	A16S
ATOM	14462	O3*	G	A	693	211.680	111.972	-42.877	1.00	59.26	A16S
ATOM	14463	P	A	A	694	212.658	111.681	-44.128	1.00	50.30	A16S
ATOM	14464	O1P	A	A	694	212.932	112.979	-44.809	1.00	48.14	A16S
ATOM	14465	O2P	A	A	694	212.116	110.547	-44.933	1.00	48.14	A16S
ATOM	14466	O5*	A	A	694	214.001	111.221	-43.409	1.00	50.30	A16S
ATOM	14467	C5*	A	A	694	214.872	110.321	-44.062	1.00	50.30	A16S
ATOM	14468	C4*	A	A	694	215.660	109.522	-43.068	1.00	50.30	A16S
ATOM	14469	O4*	A	A	694	214.806	108.978	-42.039	1.00	50.30	A16S

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ATOM	14470	C1*	A	A	694	215.211	107.651	-41.732	1.00	50.30	A16S
ATOM	14471	N9	A	A	694	214.078	106.759	-41.984	1.00	48.14	A16S
ATOM	14472	C4	A	A	694	214.049	105.405	-41.764	1.00	48.14	A16S
ATOM	14473	N3	A	A	694	215.049	104.639	-41.305	1.00	48.14	A16S
ATOM	14474	C2	A	A	694	214.655	103.374	-41.210	1.00	48.14	A16S
ATOM	14475	N1	A	A	694	213.465	102.833	-41.496	1.00	48.14	A16S
ATOM	14476	C6	A	A	694	212.481	103.635	-41.955	1.00	48.14	A16S
ATOM	14477	N6	A	A	694	211.286	103.098	-42.224	1.00	48.14	A16S
ATOM	14478	C5	A	A	694	212.774	104.991	-42.111	1.00	48.14	A16S
ATOM	14479	N7	A	A	694	212.016	106.059	-42.563	1.00	48.14	A16S
ATOM	14480	C8	A	A	694	212.831	107.083	-42.472	1.00	48.14	A16S
ATOM	14481	C2*	A	A	694	216.437	107.329	-42.584	1.00	50.30	A16S
ATOM	14482	O2*	A	A	694	217.592	107.592	-41.832	1.00	50.30	A16S
ATOM	14483	C3*	A	A	694	216.269	108.313	-43.727	1.00	50.30	A16S
ATOM	14484	O3*	A	A	694	217.451	108.705	-44.361	1.00	50.30	A16S
ATOM	14485	P	A	A	695	217.619	108.429	-45.926	1.00	54.03	A16S
ATOM	14486	O1P	A	A	695	218.679	109.352	-46.420	1.00	38.65	A16S
ATOM	14487	O2P	A	A	695	216.283	108.480	-46.563	1.00	38.65	A16S
ATOM	14488	O5*	A	A	695	218.169	106.933	-45.900	1.00	54.03	A16S
ATOM	14489	C5*	A	A	695	217.505	105.877	-46.594	1.00	54.03	A16S
ATOM	14490	C4*	A	A	695	217.479	104.636	-45.741	1.00	54.03	A16S
ATOM	14491	O4*	A	A	695	216.376	104.722	-44.808	1.00	54.03	A16S
ATOM	14492	C1*	A	A	695	215.751	103.451	-44.681	1.00	54.03	A16S
ATOM	14493	N9	A	A	695	214.354	103.576	-45.118	1.00	38.65	A16S
ATOM	14494	C4	A	A	695	213.385	102.596	-45.078	1.00	38.65	A16S
ATOM	14495	N3	A	A	695	213.513	101.331	-44.635	1.00	38.65	A16S
ATOM	14496	C2	A	A	695	212.363	100.674	-44.752	1.00	38.65	A16S
ATOM	14497	N1	A	A	695	211.192	101.102	-45.230	1.00	38.65	A16S
ATOM	14498	C6	A	A	695	211.102	102.378	-45.670	1.00	38.65	A16S
ATOM	14499	N6	A	A	695	209.938	102.812	-46.158	1.00	38.65	A16S
ATOM	14500	C5	A	A	695	212.243	103.178	-45.592	1.00	38.65	A16S
ATOM	14501	N7	A	A	695	212.477	104.498	-45.946	1.00	38.65	A16S
ATOM	14502	C8	A	A	695	213.739	104.684	-45.648	1.00	38.65	A16S
ATOM	14503	C2*	A	A	695	216.551	102.450	-45.513	1.00	54.03	A16S
ATOM	14504	O2*	A	A	695	217.464	101.764	-44.684	1.00	54.03	A16S
ATOM	14505	C3*	A	A	695	217.215	103.366	-46.528	1.00	54.03	A16S
ATOM	14506	O3*	A	A	695	218.432	102.850	-47.044	1.00	54.03	A16S
ATOM	14507	P	A	A	696	218.508	102.401	-48.585	1.00	48.99	A16S
ATOM	14508	O1P	A	A	696	219.948	102.258	-48.902	1.00	42.17	A16S
ATOM	14509	O2P	A	A	696	217.652	103.308	-49.440	1.00	42.17	A16S
ATOM	14510	O5*	A	A	696	217.878	100.938	-48.547	1.00	48.99	A16S
ATOM	14511	C5*	A	A	696	218.497	99.920	-47.760	1.00	48.99	A16S
ATOM	14512	C4*	A	A	696	217.496	98.868	-47.383	1.00	48.99	A16S
ATOM	14513	O4*	A	A	696	216.418	99.491	-46.649	1.00	48.99	A16S
ATOM	14514	C1*	A	A	696	215.183	98.888	-47.011	1.00	48.99	A16S
ATOM	14515	N9	A	A	696	214.391	99.910	-47.704	1.00	42.17	A16S
ATOM	14516	C4	A	A	696	213.045	99.890	-47.976	1.00	42.17	A16S
ATOM	14517	N3	A	A	696	212.168	98.909	-47.698	1.00	42.17	A16S
ATOM	14518	C2	A	A	696	210.944	99.254	-48.090	1.00	42.17	A16S
ATOM	14519	N1	A	A	696	210.530	100.386	-48.672	1.00	42.17	A16S
ATOM	14520	C6	A	A	696	211.443	101.356	-48.929	1.00	42.17	A16S
ATOM	14521	N6	A	A	696	211.040	102.509	-49.479	1.00	42.17	A16S
ATOM	14522	C5	A	A	696	212.768	101.104	-48.586	1.00	42.17	A16S
ATOM	14523	N7	A	A	696	213.919	101.863	-48.731	1.00	42.17	A16S
ATOM	14524	C8	A	A	696	214.852	101.113	-48.199	1.00	42.17	A16S
ATOM	14525	C2*	A	A	696	215.518	97.687	-47.893	1.00	48.99	A16S
ATOM	14526	O2*	A	A	696	215.739	96.547	-47.074	1.00	48.99	A16S
ATOM	14527	C3*	A	A	696	216.813	98.154	-48.533	1.00	48.99	A16S
ATOM	14528	O3*	A	A	696	217.590	97.074	-49.001	1.00	48.99	A16S
ATOM	14529	P	U	A	697	217.580	96.718	-50.568	1.00	53.96	A16S
ATOM	14530	O1P	U	A	697	218.722	95.786	-50.777	1.00	47.89	A16S
ATOM	14531	O2P	U	A	697	217.499	97.985	-51.363	1.00	47.89	A16S
ATOM	14532	O5*	U	A	697	216.234	95.884	-50.753	1.00	53.96	A16S
ATOM	14533	C5*	U	A	697	216.007	94.719	-49.959	1.00	53.96	A16S
ATOM	14534	C4*	U	A	697	214.546	94.386	-49.910	1.00	53.96	A16S
ATOM	14535	O4*	U	A	697	213.790	95.483	-49.332	1.00	53.96	A16S
ATOM	14536	C1*	U	A	697	212.484	95.500	-49.885	1.00	53.96	A16S
ATOM	14537	N1	U	A	697	212.212	96.812	-50.508	1.00	47.89	A16S
ATOM	14538	C6	U	A	697	213.218	97.676	-50.885	1.00	47.89	A16S
ATOM	14539	C2	U	A	697	210.882	97.151	-50.718	1.00	47.89	A16S
ATOM	14540	O2	U	A	697	209.956	96.432	-50.384	1.00	47.89	A16S
ATOM	14541	N3	U	A	697	210.671	98.362	-51.329	1.00	47.89	A16S
ATOM	14542	C4	U	A	697	211.626	99.266	-51.738	1.00	47.89	A16S
ATOM	14543	O4	U	A	697	211.271	100.313	-52.299	1.00	47.89	A16S
ATOM	14544	C5	U	A	697	212.977	98.861	-51.474	1.00	47.89	A16S
ATOM	14545	C2*	U	A	697	212.406	94.347	-50.887	1.00	53.96	A16S
ATOM	14546	O2*	U	A	697	211.853	93.208	-50.242	1.00	53.96	A16S

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ATOM	14547	C3*	U	A	697	213.873	94.148	-51.238	1.00	53.96	A16S
ATOM	14548	O3*	U	A	697	214.121	92.849	-51.722	1.00	53.96	A16S
ATOM	14549	P	G	A	698	214.362	92.630	-53.301	1.00	53.92	A16S
ATOM	14550	O1P	G	A	698	214.024	91.193	-53.561	1.00	37.40	A16S
ATOM	14551	O2P	G	A	698	215.721	93.149	-53.643	1.00	37.40	A16S
ATOM	14552	O5*	G	A	698	213.300	93.575	-54.038	1.00	53.92	A16S
ATOM	14553	C5*	G	A	698	211.921	93.188	-54.152	1.00	53.92	A16S
ATOM	14554	C4*	G	A	698	211.119	94.275	-54.823	1.00	53.92	A16S
ATOM	14555	O4*	G	A	698	211.300	95.517	-54.101	1.00	53.92	A16S
ATOM	14556	C1*	G	A	698	211.253	96.608	-55.007	1.00	53.92	A16S
ATOM	14557	N9	G	A	698	212.510	97.341	-54.926	1.00	37.40	A16S
ATOM	14558	C4	G	A	698	212.797	98.544	-55.528	1.00	37.40	A16S
ATOM	14559	N3	G	A	698	211.980	99.241	-56.339	1.00	37.40	A16S
ATOM	14560	C2	G	A	698	212.534	100.379	-56.738	1.00	37.40	A16S
ATOM	14561	N2	G	A	698	211.871	101.200	-57.564	1.00	37.40	A16S
ATOM	14562	N1	G	A	698	213.780	100.796	-56.362	1.00	37.40	A16S
ATOM	14563	C6	G	A	698	214.634	100.091	-55.523	1.00	37.40	A16S
ATOM	14564	O6	G	A	698	215.742	100.563	-55.227	1.00	37.40	A16S
ATOM	14565	C5	G	A	698	214.064	98.869	-55.105	1.00	37.40	A16S
ATOM	14566	N7	G	A	698	214.582	97.878	-54.289	1.00	37.40	A16S
ATOM	14567	C8	G	A	698	213.630	96.989	-54.216	1.00	37.40	A16S
ATOM	14568	C2*	G	A	698	211.011	96.048	-56.401	1.00	53.92	A16S
ATOM	14569	O2*	G	A	698	209.631	96.150	-56.689	1.00	53.92	A16S
ATOM	14570	C3*	G	A	698	211.519	94.621	-56.243	1.00	53.92	A16S
ATOM	14571	O3*	G	A	698	210.973	93.729	-57.199	1.00	53.92	A16S
ATOM	14572	P	C	A	699	211.924	93.150	-58.367	1.00	47.42	A16S
ATOM	14573	O1P	C	A	699	211.212	91.972	-58.976	1.00	39.19	A16S
ATOM	14574	O2P	C	A	699	213.294	92.969	-57.763	1.00	39.19	A16S
ATOM	14575	O5*	C	A	699	211.985	94.322	-59.448	1.00	47.42	A16S
ATOM	14576	C5*	C	A	699	210.826	94.640	-60.209	1.00	47.42	A16S
ATOM	14577	C4*	C	A	699	210.944	96.014	-60.799	1.00	47.42	A16S
ATOM	14578	O4*	C	A	699	211.146	96.992	-59.752	1.00	47.42	A16S
ATOM	14579	C1*	C	A	699	211.894	98.093	-60.257	1.00	47.42	A16S
ATOM	14580	N1	C	A	699	213.152	98.208	-59.505	1.00	39.19	A16S
ATOM	14581	C6	C	A	699	213.526	97.249	-58.604	1.00	39.19	A16S
ATOM	14582	C2	C	A	699	213.987	99.318	-59.752	1.00	39.19	A16S
ATOM	14583	O2	C	A	699	213.602	100.197	-60.546	1.00	39.19	A16S
ATOM	14584	N3	C	A	699	215.181	99.399	-59.118	1.00	39.19	A16S
ATOM	14585	C4	C	A	699	215.547	98.435	-58.263	1.00	39.19	A16S
ATOM	14586	N4	C	A	699	216.745	98.528	-57.682	1.00	39.19	A16S
ATOM	14587	C5	C	A	699	214.701	97.321	-57.970	1.00	39.19	A16S
ATOM	14588	C2*	C	A	699	212.207	97.788	-61.715	1.00	47.42	A16S
ATOM	14589	O2*	C	A	699	211.236	98.421	-62.523	1.00	47.42	A16S
ATOM	14590	C3*	C	A	699	212.120	96.270	-61.714	1.00	47.42	A16S
ATOM	14591	O3*	C	A	699	211.943	95.714	-62.990	1.00	47.42	A16S
ATOM	14592	P	G	A	700	213.178	94.965	-63.678	1.00	56.72	A16S
ATOM	14593	O1P	G	A	700	212.620	94.365	-64.928	1.00	47.25	A16S
ATOM	14594	O2P	G	A	700	213.848	94.090	-62.667	1.00	47.25	A16S
ATOM	14595	O5*	G	A	700	214.125	96.184	-64.046	1.00	56.72	A16S
ATOM	14596	C5*	G	A	700	213.621	97.203	-64.898	1.00	56.72	A16S
ATOM	14597	C4*	G	A	700	214.660	98.250	-65.139	1.00	56.72	A16S
ATOM	14598	O4*	G	A	700	214.835	99.070	-63.960	1.00	56.72	A16S
ATOM	14599	C1*	G	A	700	216.169	99.544	-63.912	1.00	56.72	A16S
ATOM	14600	N9	G	A	700	216.803	99.043	-62.699	1.00	47.25	A16S
ATOM	14601	C4	G	A	700	217.937	99.556	-62.127	1.00	47.25	A16S
ATOM	14602	N3	G	A	700	218.626	100.631	-62.567	1.00	47.25	A16S
ATOM	14603	C2	G	A	700	219.695	100.869	-61.827	1.00	47.25	A16S
ATOM	14604	N2	G	A	700	220.488	101.924	-62.106	1.00	47.25	A16S
ATOM	14605	N1	G	A	700	220.065	100.099	-60.754	1.00	47.25	A16S
ATOM	14606	C6	G	A	700	219.372	98.982	-60.293	1.00	47.25	A16S
ATOM	14607	O6	G	A	700	219.802	98.347	-59.327	1.00	47.25	A16S
ATOM	14608	C5	G	A	700	218.215	98.730	-61.063	1.00	47.25	A16S
ATOM	14609	N7	G	A	700	217.255	97.732	-60.947	1.00	47.25	A16S
ATOM	14610	C8	G	A	700	216.432	97.961	-61.934	1.00	47.25	A16S
ATOM	14611	C2*	G	A	700	216.894	98.989	-65.136	1.00	56.72	A16S
ATOM	14612	O2*	G	A	700	216.842	99.955	-66.165	1.00	56.72	A16S
ATOM	14613	C3*	G	A	700	216.055	97.757	-65.439	1.00	56.72	A16S
ATOM	14614	O3*	G	A	700	216.188	97.276	-66.757	1.00	56.72	A16S
ATOM	14615	P	C	A	701	217.127	96.007	-67.025	1.00	64.55	A16S
ATOM	14616	O1P	C	A	701	216.508	95.256	-68.145	1.00	65.98	A16S
ATOM	14617	O2P	C	A	701	217.393	95.306	-65.753	1.00	65.98	A16S
ATOM	14618	O5*	C	A	701	218.497	96.689	-67.470	1.00	64.55	A16S
ATOM	14619	C5*	C	A	701	218.709	97.092	-68.836	1.00	64.55	A16S
ATOM	14620	C4*	C	A	701	220.189	97.162	-69.153	1.00	64.55	A16S
ATOM	14621	O4*	C	A	701	220.720	98.464	-68.837	1.00	64.55	A16S
ATOM	14622	C1*	C	A	701	222.119	98.348	-68.835	1.00	64.55	A16S
ATOM	14623	N1	C	A	701	222.708	99.483	-68.105	1.00	65.98	A16S

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ATOM	14624	C6	C	A	701	222.174	99.930	-66.932	1.00	65.98	A16S
ATOM	14625	C2	C	A	701	223.846	100.105	-68.644	1.00	65.98	A16S
ATOM	14626	O2	C	A	701	224.323	99.677	-69.710	1.00	65.98	A16S
ATOM	14627	N3	C	A	701	224.405	101.144	-67.992	1.00	65.98	A16S
ATOM	14628	C4	C	A	701	223.888	101.562	-66.841	1.00	65.98	A16S
ATOM	14629	N4	C	A	701	224.498	102.578	-66.219	1.00	65.98	A16S
ATOM	14630	C5	C	A	701	222.728	100.956	-66.270	1.00	65.98	A16S
ATOM	14631	C2*	C	A	701	222.469	96.935	-68.335	1.00	64.55	A16S
ATOM	14632	O2*	C	A	701	223.493	96.363	-69.124	1.00	64.55	A16S
ATOM	14633	C3*	C	A	701	221.114	96.207	-68.402	1.00	64.55	A16S
ATOM	14634	O3*	C	A	701	221.090	94.832	-68.879	1.00	64.55	A16S
ATOM	14635	P	A	A	702	221.593	94.440	-70.372	1.00	59.46	A16S
ATOM	14636	O1P	A	A	702	222.521	93.288	-70.232	1.00	78.12	A16S
ATOM	14637	O2P	A	A	702	222.016	95.636	-71.155	1.00	78.12	A16S
ATOM	14638	O5*	A	A	702	220.282	93.874	-71.071	1.00	59.46	A16S
ATOM	14639	C5*	A	A	702	220.010	94.182	-72.440	1.00	59.46	A16S
ATOM	14640	C4*	A	A	702	218.555	93.944	-72.754	1.00	59.46	A16S
ATOM	14641	O4*	A	A	702	218.260	92.524	-72.655	1.00	59.46	A16S
ATOM	14642	C1*	A	A	702	217.123	92.332	-71.845	1.00	59.46	A16S
ATOM	14643	N9	A	A	702	217.280	91.066	-71.134	1.00	78.12	A16S
ATOM	14644	C4	A	A	702	216.474	89.967	-71.291	1.00	78.12	A16S
ATOM	14645	N3	A	A	702	215.410	89.846	-72.105	1.00	78.12	A16S
ATOM	14646	C2	A	A	702	214.872	88.634	-71.996	1.00	78.12	A16S
ATOM	14647	N1	A	A	702	215.248	87.606	-71.225	1.00	78.12	A16S
ATOM	14648	C6	A	A	702	216.321	87.761	-70.419	1.00	78.12	A16S
ATOM	14649	N6	A	A	702	216.690	86.738	-69.649	1.00	78.12	A16S
ATOM	14650	C5	A	A	702	216.982	89.001	-70.443	1.00	78.12	A16S
ATOM	14651	N7	A	A	702	218.092	89.481	-69.767	1.00	78.12	A16S
ATOM	14652	C8	A	A	702	218.224	90.709	-70.209	1.00	78.12	A16S
ATOM	14653	C2*	A	A	702	217.005	93.574	-70.963	1.00	59.46	A16S
ATOM	14654	O2*	A	A	702	215.661	93.751	-70.558	1.00	59.46	A16S
ATOM	14655	C3*	A	A	702	217.515	94.670	-71.904	1.00	59.46	A16S
ATOM	14656	O3*	A	A	702	216.484	95.102	-72.788	1.00	59.46	A16S
ATOM	14657	P	G	A	703	215.503	96.301	-72.363	1.00	63.92	A16S
ATOM	14658	O1P	G	A	703	214.343	95.656	-71.664	1.00	70.84	A16S
ATOM	14659	O2P	G	A	703	215.266	97.110	-73.581	1.00	70.84	A16S
ATOM	14660	O5*	G	A	703	216.356	97.212	-71.358	1.00	63.92	A16S
ATOM	14661	C5*	G	A	703	215.767	97.772	-70.152	1.00	63.92	A16S
ATOM	14662	C4*	G	A	703	216.094	99.249	-70.026	1.00	63.92	A16S
ATOM	14663	O4*	G	A	703	217.536	99.416	-69.966	1.00	63.92	A16S
ATOM	14664	C1*	G	A	703	217.963	100.295	-70.989	1.00	63.92	A16S
ATOM	14665	N9	G	A	703	219.216	99.783	-71.544	1.00	70.84	A16S
ATOM	14666	C4	G	A	703	220.459	100.384	-71.481	1.00	70.84	A16S
ATOM	14667	N3	G	A	703	220.749	101.556	-70.877	1.00	70.84	A16S
ATOM	14668	C2	G	A	703	222.034	101.862	-70.979	1.00	70.84	A16S
ATOM	14669	N2	G	A	703	222.503	102.984	-70.415	1.00	70.84	A16S
ATOM	14670	N1	G	A	703	222.958	101.090	-71.631	1.00	70.84	A16S
ATOM	14671	C6	G	A	703	222.690	99.877	-72.256	1.00	70.84	A16S
ATOM	14672	O6	G	A	703	223.614	99.244	-72.802	1.00	70.84	A16S
ATOM	14673	C5	G	A	703	221.311	99.529	-72.150	1.00	70.84	A16S
ATOM	14674	N7	G	A	703	220.626	98.415	-72.617	1.00	70.84	A16S
ATOM	14675	C8	G	A	703	219.392	98.608	-72.238	1.00	70.84	A16S
ATOM	14676	C2*	G	A	703	216.839	100.332	-72.024	1.00	63.92	A16S
ATOM	14677	O2*	G	A	703	216.838	101.562	-72.714	1.00	63.92	A16S
ATOM	14678	C3*	G	A	703	215.597	100.146	-71.160	1.00	63.92	A16S
ATOM	14679	O3*	G	A	703	215.174	101.424	-70.660	1.00	63.92	A16S
ATOM	14680	P	A	A	704	213.791	102.078	-71.181	1.00	52.67	A16S
ATOM	14681	O1P	A	A	704	213.151	101.106	-72.098	1.00	53.30	A16S
ATOM	14682	O2P	A	A	704	214.018	103.473	-71.632	1.00	53.30	A16S
ATOM	14683	O5*	A	A	704	212.886	102.144	-69.875	1.00	52.67	A16S
ATOM	14684	C5*	A	A	704	212.281	100.954	-69.337	1.00	52.67	A16S
ATOM	14685	C4*	A	A	704	212.330	100.975	-67.829	1.00	52.67	A16S
ATOM	14686	O4*	A	A	704	213.710	100.868	-67.381	1.00	52.67	A16S
ATOM	14687	C1*	A	A	704	213.888	101.629	-66.196	1.00	52.67	A16S
ATOM	14688	N9	A	A	704	214.850	102.705	-66.452	1.00	53.30	A16S
ATOM	14689	C4	A	A	704	215.288	103.586	-65.493	1.00	53.30	A16S
ATOM	14690	N3	A	A	704	214.957	103.593	-64.190	1.00	53.30	A16S
ATOM	14691	C2	A	A	704	215.547	104.605	-63.567	1.00	53.30	A16S
ATOM	14692	N1	A	A	704	216.372	105.536	-64.057	1.00	53.30	A16S
ATOM	14693	C6	A	A	704	216.691	105.496	-65.367	1.00	53.30	A16S
ATOM	14694	N6	A	A	704	217.524	106.418	-65.844	1.00	53.30	A16S
ATOM	14695	C5	A	A	704	216.124	104.474	-66.146	1.00	53.30	A16S
ATOM	14696	N7	A	A	704	216.233	104.149	-67.492	1.00	53.30	A16S
ATOM	14697	C8	A	A	704	215.467	103.090	-67.622	1.00	53.30	A16S
ATOM	14698	C2*	A	A	704	212.529	102.220	-65.816	1.00	52.67	A16S
ATOM	14699	O2*	A	A	704	211.927	101.401	-64.825	1.00	52.67	A16S
ATOM	14700	C3*	A	A	704	211.820	102.246	-67.170	1.00	52.67	A16S

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ATOM	14701	O3*	A	A 704	210.403	102.287	-67.080	1.00	52.67	A16S
ATOM	14702	P	U	A 705	209.621	103.625	-67.519	1.00	61.64	A16S
ATOM	14703	O1P	U	A 705	208.162	103.361	-67.281	1.00	74.30	A16S
ATOM	14704	O2P	U	A 705	210.082	104.019	-68.880	1.00	74.30	A16S
ATOM	14705	O5*	U	A 705	210.135	104.737	-66.490	1.00	61.64	A16S
ATOM	14706	C5*	U	A 705	209.759	104.678	-65.092	1.00	61.64	A16S
ATOM	14707	C4*	U	A 705	210.430	105.778	-64.292	1.00	61.64	A16S
ATOM	14708	O4*	U	A 705	211.868	105.606	-64.342	1.00	61.64	A16S
ATOM	14709	C1*	U	A 705	212.500	106.872	-64.289	1.00	61.64	A16S
ATOM	14710	N1	U	A 705	213.299	107.063	-65.511	1.00	74.30	A16S
ATOM	14711	C6	U	A 705	213.109	106.291	-66.637	1.00	74.30	A16S
ATOM	14712	C2	U	A 705	214.231	108.084	-65.505	1.00	74.30	A16S
ATOM	14713	O2	U	A 705	214.495	108.727	-64.514	1.00	74.30	A16S
ATOM	14714	N3	U	A 705	214.854	108.312	-66.702	1.00	74.30	A16S
ATOM	14715	C4	U	A 705	214.674	107.618	-67.872	1.00	74.30	A16S
ATOM	14716	O4	U	A 705	215.188	108.047	-68.902	1.00	74.30	A16S
ATOM	14717	C5	U	A 705	213.753	106.525	-67.785	1.00	74.30	A16S
ATOM	14718	C2*	U	A 705	211.409	107.941	-64.166	1.00	61.64	A16S
ATOM	14719	O2*	U	A 705	211.282	108.317	-62.809	1.00	61.64	A16S
ATOM	14720	C3*	U	A 705	210.185	107.218	-64.726	1.00	61.64	A16S
ATOM	14721	O3*	U	A 705	208.975	107.738	-64.164	1.00	61.64	A16S
ATOM	14722	P	A	A 706	207.933	108.558	-65.090	1.00	51.97	A16S
ATOM	14723	O1P	A	A 706	206.868	109.044	-64.183	1.00	63.67	A16S
ATOM	14724	O2P	A	A 706	207.562	107.730	-66.264	1.00	63.67	A16S
ATOM	14725	O5*	A	A 706	208.749	109.829	-65.587	1.00	51.97	A16S
ATOM	14726	C5*	A	A 706	209.009	110.916	-64.696	1.00	51.97	A16S
ATOM	14727	C4*	A	A 706	209.872	111.935	-65.374	1.00	51.97	A16S
ATOM	14728	O4*	A	A 706	211.177	111.350	-65.610	1.00	51.97	A16S
ATOM	14729	C1*	A	A 706	211.684	111.795	-66.866	1.00	51.97	A16S
ATOM	14730	N9	A	A 706	211.836	110.638	-67.750	1.00	63.67	A16S
ATOM	14731	C4	A	A 706	212.566	110.606	-68.910	1.00	63.67	A16S
ATOM	14732	N3	A	A 706	213.286	111.604	-69.445	1.00	63.67	A16S
ATOM	14733	C2	A	A 706	213.845	111.211	-70.582	1.00	63.67	A16S
ATOM	14734	N1	A	A 706	213.771	110.026	-71.195	1.00	63.67	A16S
ATOM	14735	C6	A	A 706	213.044	109.048	-70.621	1.00	63.67	A16S
ATOM	14736	N6	A	A 706	212.980	107.863	-71.219	1.00	63.67	A16S
ATOM	14737	C5	A	A 706	212.401	109.337	-69.422	1.00	63.67	A16S
ATOM	14738	N7	A	A 706	211.589	108.576	-68.600	1.00	63.67	A16S
ATOM	14739	C8	A	A 706	211.286	109.390	-67.622	1.00	63.67	A16S
ATOM	14740	C2*	A	A 706	210.679	112.787	-67.445	1.00	51.97	A16S
ATOM	14741	O2*	A	A 706	211.076	114.103	-67.107	1.00	51.97	A16S
ATOM	14742	C3*	A	A 706	209.399	112.337	-66.759	1.00	51.97	A16S
ATOM	14743	O3*	A	A 706	208.395	113.324	-66.753	1.00	51.97	A16S
ATOM	14744	P	C	A 707	207.224	113.223	-67.835	1.00	59.98	A16S
ATOM	14745	O1P	C	A 707	206.307	114.372	-67.654	1.00	55.64	A16S
ATOM	14746	O2P	C	A 707	206.701	111.827	-67.789	1.00	55.64	A16S
ATOM	14747	O5*	C	A 707	207.987	113.400	-69.213	1.00	59.98	A16S
ATOM	14748	C5*	C	A 707	208.507	114.672	-69.593	1.00	59.98	A16S
ATOM	14749	C4*	C	A 707	208.807	114.682	-71.064	1.00	59.98	A16S
ATOM	14750	O4*	C	A 707	209.940	113.818	-71.332	1.00	59.98	A16S
ATOM	14751	C1*	C	A 707	209.793	113.236	-72.616	1.00	59.98	A16S
ATOM	14752	N1	C	A 707	209.808	111.771	-72.487	1.00	55.64	A16S
ATOM	14753	C6	C	A 707	209.723	111.158	-71.268	1.00	55.64	A16S
ATOM	14754	C2	C	A 707	209.894	111.011	-73.653	1.00	55.64	A16S
ATOM	14755	O2	C	A 707	210.004	111.599	-74.745	1.00	55.64	A16S
ATOM	14756	N3	C	A 707	209.858	109.663	-73.569	1.00	55.64	A16S
ATOM	14757	C4	C	A 707	209.755	109.073	-72.380	1.00	55.64	A16S
ATOM	14758	N4	C	A 707	209.707	107.739	-72.349	1.00	55.64	A16S
ATOM	14759	C5	C	A 707	209.693	109.824	-71.169	1.00	55.64	A16S
ATOM	14760	C2*	C	A 707	208.474	113.734	-73.211	1.00	59.98	A16S
ATOM	14761	O2*	C	A 707	208.713	114.840	-74.054	1.00	59.98	A16S
ATOM	14762	C3*	C	A 707	207.708	114.140	-71.964	1.00	59.98	A16S
ATOM	14763	O3*	C	A 707	206.708	115.097	-72.254	1.00	59.98	A16S
ATOM	14764	P	C	A 708	205.236	114.595	-72.652	1.00	61.22	A16S
ATOM	14765	O1P	C	A 708	204.345	115.782	-72.548	1.00	59.32	A16S
ATOM	14766	O2P	C	A 708	204.936	113.370	-71.858	1.00	59.32	A16S
ATOM	14767	O5*	C	A 708	205.365	114.192	-74.189	1.00	61.22	A16S
ATOM	14768	C5*	C	A 708	205.817	115.158	-75.162	1.00	61.22	A16S
ATOM	14769	C4*	C	A 708	206.053	114.500	-76.505	1.00	61.22	A16S
ATOM	14770	O4*	C	A 708	207.164	113.570	-76.425	1.00	61.22	A16S
ATOM	14771	C1*	C	A 708	206.945	112.489	-77.320	1.00	61.22	A16S
ATOM	14772	N1	C	A 708	206.949	111.229	-76.564	1.00	59.32	A16S
ATOM	14773	C6	C	A 708	206.789	111.216	-75.206	1.00	59.32	A16S
ATOM	14774	C2	C	A 708	207.108	110.030	-77.267	1.00	59.32	A16S
ATOM	14775	O2	C	A 708	207.270	110.071	-78.498	1.00	59.32	A16S
ATOM	14776	N3	C	A 708	207.081	108.862	-76.591	1.00	59.32	A16S
ATOM	14777	C4	C	A 708	206.910	108.861	-75.269	1.00	59.32	A16S

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ATOM	14778	N4	C	A	708	206.873	107.687	-74.646	1.00	59.32	A16S
ATOM	14779	C5	C	A	708	206.765	110.066	-74.527	1.00	59.32	A16S
ATOM	14780	C2*	C	A	708	205.610	112.716	-78.027	1.00	61.22	A16S
ATOM	14781	O2*	C	A	708	205.853	113.247	-79.314	1.00	61.22	A16S
ATOM	14782	C3*	C	A	708	204.911	113.669	-77.061	1.00	61.22	A16S
ATOM	14783	O3*	C	A	708	203.930	114.470	-77.696	1.00	61.22	A16S
ATOM	14784	P	G	A	709	202.405	113.972	-77.706	1.00	75.25	A16S
ATOM	14785	O1P	G	A	709	201.581	115.107	-78.210	1.00	71.63	A16S
ATOM	14786	O2P	G	A	709	202.116	113.385	-76.376	1.00	71.63	A16S
ATOM	14787	O5*	G	A	709	202.404	112.771	-78.756	1.00	75.25	A16S
ATOM	14788	C5*	G	A	709	202.648	113.021	-80.150	1.00	75.25	A16S
ATOM	14789	C4*	G	A	709	202.676	111.729	-80.934	1.00	75.25	A16S
ATOM	14790	O4*	G	A	709	203.872	110.967	-80.625	1.00	75.25	A16S
ATOM	14791	C1*	G	A	709	203.605	109.585	-80.807	1.00	75.25	A16S
ATOM	14792	N9	G	A	709	203.836	108.877	-79.555	1.00	71.63	A16S
ATOM	14793	C4	G	A	709	203.908	107.514	-79.417	1.00	71.63	A16S
ATOM	14794	N3	G	A	709	203.838	106.616	-80.420	1.00	71.63	A16S
ATOM	14795	C2	G	A	709	203.904	105.370	-79.975	1.00	71.63	A16S
ATOM	14796	N2	G	A	709	203.867	104.349	-80.838	1.00	71.63	A16S
ATOM	14797	N1	G	A	709	204.017	105.033	-78.651	1.00	71.63	A16S
ATOM	14798	C6	G	A	709	204.090	105.940	-77.599	1.00	71.63	A16S
ATOM	14799	O6	G	A	709	204.184	105.524	-76.436	1.00	71.63	A16S
ATOM	14800	C5	G	A	709	204.035	107.288	-78.065	1.00	71.63	A16S
ATOM	14801	N7	G	A	709	204.085	108.490	-77.368	1.00	71.63	A16S
ATOM	14802	C8	G	A	709	203.972	109.405	-78.293	1.00	71.63	A16S
ATOM	14803	C2*	G	A	709	202.135	109.436	-81.196	1.00	75.25	A16S
ATOM	14804	O2*	G	A	709	202.005	109.265	-82.592	1.00	75.25	A16S
ATOM	14805	C3*	G	A	709	201.546	110.745	-80.692	1.00	75.25	A16S
ATOM	14806	O3*	G	A	709	200.351	111.069	-81.374	1.00	75.25	A16S
ATOM	14807	P	G	A	710	198.959	110.468	-80.841	1.00	84.59	A16S
ATOM	14808	O1P	G	A	710	197.905	111.078	-81.693	1.00	82.92	A16S
ATOM	14809	O2P	G	A	710	198.889	110.627	-79.362	1.00	82.92	A16S
ATOM	14810	O5*	G	A	710	199.060	108.910	-81.165	1.00	84.59	A16S
ATOM	14811	C5*	G	A	710	199.070	108.459	-82.524	1.00	84.59	A16S
ATOM	14812	C4*	G	A	710	199.201	106.958	-82.593	1.00	84.59	A16S
ATOM	14813	O4*	G	A	710	200.459	106.552	-81.993	1.00	84.59	A16S
ATOM	14814	C1*	G	A	710	200.317	105.258	-81.425	1.00	84.59	A16S
ATOM	14815	N9	G	A	710	200.588	105.326	-79.991	1.00	82.92	A16S
ATOM	14816	C4	G	A	710	200.660	104.249	-79.153	1.00	82.92	A16S
ATOM	14817	N3	G	A	710	200.504	102.965	-79.518	1.00	82.92	A16S
ATOM	14818	C2	G	A	710	200.624	102.147	-78.494	1.00	82.92	A16S
ATOM	14819	N2	G	A	710	200.493	100.830	-78.683	1.00	82.92	A16S
ATOM	14820	N1	G	A	710	200.880	102.559	-77.211	1.00	82.92	A16S
ATOM	14821	C6	G	A	710	201.044	103.880	-76.814	1.00	82.92	A16S
ATOM	14822	O6	G	A	710	201.275	104.145	-75.629	1.00	82.92	A16S
ATOM	14823	C5	G	A	710	200.913	104.768	-77.905	1.00	82.92	A16S
ATOM	14824	N7	G	A	710	201.000	106.151	-77.955	1.00	82.92	A16S
ATOM	14825	C8	G	A	710	200.803	106.439	-79.212	1.00	82.92	A16S
ATOM	14826	C2*	G	A	710	198.884	104.792	-81.674	1.00	84.59	A16S
ATOM	14827	O2*	G	A	710	198.857	103.958	-82.814	1.00	84.59	A16S
ATOM	14828	C3*	G	A	710	198.161	106.121	-81.865	1.00	84.59	A16S
ATOM	14829	O3*	G	A	710	196.938	105.968	-82.575	1.00	84.59	A16S
ATOM	14830	P	G	A	711	195.565	105.792	-81.747	1.00	67.53	A16S
ATOM	14831	O1P	G	A	711	194.437	105.827	-82.722	1.00	63.75	A16S
ATOM	14832	O2P	G	A	711	195.577	106.755	-80.605	1.00	63.75	A16S
ATOM	14833	O5*	G	A	711	195.662	104.315	-81.157	1.00	67.53	A16S
ATOM	14834	C5*	G	A	711	195.786	103.207	-82.043	1.00	67.53	A16S
ATOM	14835	C4*	G	A	711	196.041	101.943	-81.275	1.00	67.53	A16S
ATOM	14836	O4*	G	A	711	197.285	102.049	-80.546	1.00	67.53	A16S
ATOM	14837	C1*	G	A	711	197.223	101.223	-79.401	1.00	67.53	A16S
ATOM	14838	N9	G	A	711	197.492	102.019	-78.212	1.00	63.75	A16S
ATOM	14839	C4	G	A	711	197.725	101.498	-76.974	1.00	63.75	A16S
ATOM	14840	N3	G	A	711	197.763	100.183	-76.676	1.00	63.75	A16S
ATOM	14841	C2	G	A	711	198.012	99.974	-75.402	1.00	63.75	A16S
ATOM	14842	N2	G	A	711	198.093	98.716	-74.946	1.00	63.75	A16S
ATOM	14843	N1	G	A	711	198.201	100.984	-74.486	1.00	63.75	A16S
ATOM	14844	C6	G	A	711	198.161	102.348	-74.772	1.00	63.75	A16S
ATOM	14845	O6	G	A	711	198.337	103.171	-73.870	1.00	63.75	A16S
ATOM	14846	C5	G	A	711	197.902	102.581	-76.145	1.00	63.75	A16S
ATOM	14847	N7	G	A	711	197.789	103.769	-76.856	1.00	63.75	A16S
ATOM	14848	C8	G	A	711	197.547	103.388	-78.080	1.00	63.75	A16S
ATOM	14849	C2*	G	A	711	195.825	100.615	-79.326	1.00	67.53	A16S
ATOM	14850	O2*	G	A	711	195.870	99.285	-79.797	1.00	67.53	A16S
ATOM	14851	C3*	G	A	711	195.029	101.565	-80.212	1.00	67.53	A16S
ATOM	14852	O3*	G	A	711	193.892	100.936	-80.771	1.00	67.53	A16S
ATOM	14853	P	A	A	712	192.497	100.987	-79.982	1.00	59.89	A16S
ATOM	14854	O1P	A	A	712	191.444	100.493	-80.913	1.00	61.55	A16S

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ATOM	14855	O2P	A	A	712	192.361	102.339	-79.370	1.00	61.55	A16S
ATOM	14856	O5*	A	A	712	192.685	99.884	-78.852	1.00	59.89	A16S
ATOM	14857	C5*	A	A	712	192.889	98.520	-79.226	1.00	59.89	A16S
ATOM	14858	C4*	A	A	712	193.202	97.692	-78.019	1.00	59.89	A16S
ATOM	14859	O4*	A	A	712	194.445	98.152	-77.434	1.00	59.89	A16S
ATOM	14860	C1*	A	A	712	194.376	98.042	-76.021	1.00	59.89	A16S
ATOM	14861	N9	A	A	712	194.526	99.381	-75.446	1.00	61.55	A16S
ATOM	14862	C4	A	A	712	194.941	99.666	-74.169	1.00	61.55	A16S
ATOM	14863	N3	A	A	712	195.280	98.790	-73.206	1.00	61.55	A16S
ATOM	14864	C2	A	A	712	195.653	99.435	-72.095	1.00	61.55	A16S
ATOM	14865	N1	A	A	712	195.721	100.756	-71.859	1.00	61.55	A16S
ATOM	14866	C6	A	A	712	195.371	101.605	-72.852	1.00	61.55	A16S
ATOM	14867	N6	A	A	712	195.441	102.917	-72.625	1.00	61.55	A16S
ATOM	14868	C5	A	A	712	194.954	101.049	-74.076	1.00	61.55	A16S
ATOM	14869	N7	A	A	712	194.541	101.624	-75.267	1.00	61.55	A16S
ATOM	14870	C8	A	A	712	194.297	100.598	-76.045	1.00	61.55	A16S
ATOM	14871	C2*	A	A	712	193.029	97.412	-75.679	1.00	59.89	A16S
ATOM	14872	O2*	A	A	712	193.174	96.010	-75.597	1.00	59.89	A16S
ATOM	14873	C3*	A	A	712	192.201	97.804	-76.890	1.00	59.89	A16S
ATOM	14874	O3*	A	A	712	191.082	96.962	-77.071	1.00	59.89	A16S
ATOM	14875	P	G	A	713	189.656	97.435	-76.504	1.00	73.42	A16S
ATOM	14876	O1P	G	A	713	188.639	96.408	-76.872	1.00	57.53	A16S
ATOM	14877	O2P	G	A	713	189.454	98.869	-76.907	1.00	57.53	A16S
ATOM	14878	O5*	G	A	713	189.841	97.365	-74.923	1.00	73.42	A16S
ATOM	14879	C5*	G	A	713	190.068	96.106	-74.275	1.00	73.42	A16S
ATOM	14880	C4*	G	A	713	190.355	96.316	-72.814	1.00	73.42	A16S
ATOM	14881	O4*	G	A	713	191.539	97.139	-72.667	1.00	73.42	A16S
ATOM	14882	C1*	G	A	713	191.446	97.910	-71.483	1.00	73.42	A16S
ATOM	14883	N9	G	A	713	191.598	99.317	-71.831	1.00	57.53	A16S
ATOM	14884	C4	G	A	713	192.229	100.301	-71.090	1.00	57.53	A16S
ATOM	14885	N3	G	A	713	192.853	100.137	-69.902	1.00	57.53	A16S
ATOM	14886	C2	G	A	713	193.352	101.286	-69.441	1.00	57.53	A16S
ATOM	14887	N2	G	A	713	194.025	101.318	-68.277	1.00	57.53	A16S
ATOM	14888	N1	G	A	713	193.230	102.489	-70.088	1.00	57.53	A16S
ATOM	14889	C6	G	A	713	192.586	102.680	-71.303	1.00	57.53	A16S
ATOM	14890	O6	G	A	713	192.515	103.812	-71.791	1.00	57.53	A16S
ATOM	14891	C5	G	A	713	192.068	101.462	-71.818	1.00	57.53	A16S
ATOM	14892	N7	G	A	713	191.378	101.213	-72.994	1.00	57.53	A16S
ATOM	14893	C8	G	A	713	191.123	99.931	-72.959	1.00	57.53	A16S
ATOM	14894	C2*	G	A	713	190.102	97.586	-70.834	1.00	73.42	A16S
ATOM	14895	O2*	G	A	713	190.345	96.590	-69.861	1.00	73.42	A16S
ATOM	14896	C3*	G	A	713	189.301	97.055	-72.019	1.00	73.42	A16S
ATOM	14897	O3*	G	A	713	188.242	96.184	-71.637	1.00	73.42	A16S
ATOM	14898	P	G	A	714	186.766	96.786	-71.403	1.00	53.19	A16S
ATOM	14899	O1P	G	A	714	185.745	95.716	-71.590	1.00	52.07	A16S
ATOM	14900	O2P	G	A	714	186.662	98.051	-72.179	1.00	52.07	A16S
ATOM	14901	O5*	G	A	714	186.759	97.182	-69.864	1.00	53.19	A16S
ATOM	14902	C5*	G	A	714	186.971	96.184	-68.861	1.00	53.19	A16S
ATOM	14903	C4*	G	A	714	187.481	96.818	-67.600	1.00	53.19	A16S
ATOM	14904	O4*	G	A	714	188.697	97.556	-67.874	1.00	53.19	A16S
ATOM	14905	C1*	G	A	714	188.775	98.674	-67.015	1.00	53.19	A16S
ATOM	14906	N9	G	A	714	188.903	99.886	-67.816	1.00	52.07	A16S
ATOM	14907	C4	G	A	714	189.728	100.951	-67.534	1.00	52.07	A16S
ATOM	14908	N3	G	A	714	190.552	101.055	-66.468	1.00	52.07	A16S
ATOM	14909	C2	G	A	714	191.226	102.197	-66.471	1.00	52.07	A16S
ATOM	14910	N2	G	A	714	192.090	102.474	-65.479	1.00	52.07	A16S
ATOM	14911	N1	G	A	714	191.106	103.149	-67.440	1.00	52.07	A16S
ATOM	14912	C6	G	A	714	190.271	103.062	-68.546	1.00	52.07	A16S
ATOM	14913	O6	G	A	714	190.255	103.984	-69.371	1.00	52.07	A16S
ATOM	14914	C5	G	A	714	189.529	101.848	-68.553	1.00	52.07	A16S
ATOM	14915	N7	G	A	714	188.588	101.369	-69.456	1.00	52.07	A16S
ATOM	14916	C8	G	A	714	188.245	100.202	-68.980	1.00	52.07	A16S
ATOM	14917	C2*	G	A	714	187.526	98.670	-66.138	1.00	53.19	A16S
ATOM	14918	O2*	G	A	714	187.857	98.031	-64.919	1.00	53.19	A16S
ATOM	14919	C3*	G	A	714	186.563	97.847	-66.980	1.00	53.19	A16S
ATOM	14920	O3*	G	A	714	185.575	97.208	-66.203	1.00	53.19	A16S
ATOM	14921	P	A	A	715	184.202	97.973	-65.887	1.00	58.92	A16S
ATOM	14922	O1P	A	A	715	183.376	96.940	-65.204	1.00	49.75	A16S
ATOM	14923	O2P	A	A	715	183.688	98.639	-67.113	1.00	49.75	A16S
ATOM	14924	O5*	A	A	715	184.618	99.115	-64.850	1.00	58.92	A16S
ATOM	14925	C5*	A	A	715	185.007	98.783	-63.501	1.00	58.92	A16S
ATOM	14926	C4*	A	A	715	185.612	99.982	-62.814	1.00	58.92	A16S
ATOM	14927	O4*	A	A	715	186.783	100.412	-63.547	1.00	58.92	A16S
ATOM	14928	C1*	A	A	715	186.874	101.828	-63.531	1.00	58.92	A16S
ATOM	14929	N9	A	A	715	186.730	102.300	-64.905	1.00	49.75	A16S
ATOM	14930	C4	A	A	715	187.288	103.426	-65.458	1.00	49.75	A16S
ATOM	14931	N3	A	A	715	188.081	104.323	-64.853	1.00	49.75	A16S

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ATOM	14932	C2	A	A	715	188.431	105.285	-65.705	1.00	49.75	A16S
ATOM	14933	N1	A	A	715	188.104	105.438	-66.996	1.00	49.75	A16S
ATOM	14934	C6	A	A	715	187.308	104.511	-67.572	1.00	49.75	A16S
ATOM	14935	N6	A	A	715	186.990	104.645	-68.865	1.00	49.75	A16S
ATOM	14936	C5	A	A	715	186.864	103.448	-66.774	1.00	49.75	A16S
ATOM	14937	N7	A	A	715	186.047	102.361	-67.045	1.00	49.75	A16S
ATOM	14938	C8	A	A	715	186.000	101.712	-65.909	1.00	49.75	A16S
ATOM	14939	C2*	A	A	715	185.734	102.349	-62.661	1.00	58.92	A16S
ATOM	14940	O2*	A	A	715	186.199	102.559	-61.346	1.00	58.92	A16S
ATOM	14941	C3*	A	A	715	184.731	101.212	-62.772	1.00	58.92	A16S
ATOM	14942	O3*	A	A	715	183.838	101.179	-61.688	1.00	58.92	A16S
ATOM	14943	P	A	A	716	182.463	101.998	-61.781	1.00	46.30	A16S
ATOM	14944	O1P	A	A	716	181.700	101.588	-60.564	1.00	48.00	A16S
ATOM	14945	O2P	A	A	716	181.846	101.840	-63.136	1.00	48.00	A16S
ATOM	14946	O5*	A	A	716	182.924	103.512	-61.609	1.00	46.30	A16S
ATOM	14947	C5*	A	A	716	183.322	103.982	-60.324	1.00	46.30	A16S
ATOM	14948	C4*	A	A	716	184.007	105.310	-60.431	1.00	46.30	A16S
ATOM	14949	O4*	A	A	716	185.102	105.201	-61.367	1.00	46.30	A16S
ATOM	14950	C1*	A	A	716	185.292	106.446	-62.019	1.00	46.30	A16S
ATOM	14951	N9	A	A	716	185.067	106.267	-63.458	1.00	48.00	A16S
ATOM	14952	C4	A	A	716	185.499	107.110	-64.456	1.00	48.00	A16S
ATOM	14953	N3	A	A	716	186.248	108.218	-64.324	1.00	48.00	A16S
ATOM	14954	C2	A	A	716	186.433	108.807	-65.504	1.00	48.00	A16S
ATOM	14955	N1	A	A	716	185.983	108.448	-66.708	1.00	48.00	A16S
ATOM	14956	C6	A	A	716	185.227	107.333	-66.806	1.00	48.00	A16S
ATOM	14957	N6	A	A	716	184.742	106.992	-68.003	1.00	48.00	A16S
ATOM	14958	C5	A	A	716	184.976	106.603	-65.629	1.00	48.00	A16S
ATOM	14959	N7	A	A	716	184.266	105.435	-65.386	1.00	48.00	A16S
ATOM	14960	C8	A	A	716	184.357	105.274	-64.090	1.00	48.00	A16S
ATOM	14961	C2*	A	A	716	184.285	107.427	-61.416	1.00	46.30	A16S
ATOM	14962	O2*	A	A	716	184.883	108.081	-60.313	1.00	46.30	A16S
ATOM	14963	C3*	A	A	716	183.191	106.486	-60.941	1.00	46.30	A16S
ATOM	14964	O3*	A	A	716	182.423	107.086	-59.907	1.00	46.30	A16S
ATOM	14965	P	C	A	717	181.128	107.972	-60.279	1.00	54.04	A16S
ATOM	14966	O1P	C	A	717	180.664	108.514	-58.973	1.00	47.52	A16S
ATOM	14967	O2P	C	A	717	180.178	107.189	-61.142	1.00	47.52	A16S
ATOM	14968	O5*	C	A	717	181.706	109.199	-61.122	1.00	54.04	A16S
ATOM	14969	C5*	C	A	717	182.470	110.227	-60.464	1.00	54.04	A16S
ATOM	14970	C4*	C	A	717	183.109	111.167	-61.468	1.00	54.04	A16S
ATOM	14971	O4*	C	A	717	183.585	110.408	-62.607	1.00	54.04	A16S
ATOM	14972	C1*	C	A	717	183.189	111.037	-63.800	1.00	54.04	A16S
ATOM	14973	N1	C	A	717	182.827	109.996	-64.771	1.00	47.52	A16S
ATOM	14974	C6	C	A	717	182.129	108.880	-64.385	1.00	47.52	A16S
ATOM	14975	C2	C	A	717	183.202	110.168	-66.106	1.00	47.52	A16S
ATOM	14976	O2	C	A	717	183.845	111.177	-66.420	1.00	47.52	A16S
ATOM	14977	N3	C	A	717	182.861	109.228	-67.014	1.00	47.52	A16S
ATOM	14978	C4	C	A	717	182.191	108.141	-66.628	1.00	47.52	A16S
ATOM	14979	N4	C	A	717	181.907	107.229	-67.548	1.00	47.52	A16S
ATOM	14980	C5	C	A	717	181.794	107.937	-65.273	1.00	47.52	A16S
ATOM	14981	C2*	C	A	717	182.004	111.932	-63.461	1.00	54.04	A16S
ATOM	14982	O2*	C	A	717	182.064	113.054	-64.319	1.00	54.04	A16S
ATOM	14983	C3*	C	A	717	182.302	112.339	-62.026	1.00	54.04	A16S
ATOM	14984	O3*	C	A	717	183.147	113.467	-62.113	1.00	54.04	A16S
ATOM	14985	P	G	A	718	182.944	114.710	-61.118	1.00	49.49	A16S
ATOM	14986	O1P	G	A	718	182.339	114.260	-59.835	1.00	53.77	A16S
ATOM	14987	O2P	G	A	718	182.308	115.821	-61.872	1.00	53.77	A16S
ATOM	14988	O5*	G	A	718	184.453	115.083	-60.793	1.00	49.49	A16S
ATOM	14989	C5*	G	A	718	184.774	116.319	-60.210	1.00	49.49	A16S
ATOM	14990	C4*	G	A	718	186.198	116.701	-60.520	1.00	49.49	A16S
ATOM	14991	O4*	G	A	718	186.662	116.143	-61.771	1.00	49.49	A16S
ATOM	14992	C1*	G	A	718	187.397	117.119	-62.484	1.00	49.49	A16S
ATOM	14993	N9	G	A	718	186.755	117.283	-63.783	1.00	53.77	A16S
ATOM	14994	C4	G	A	718	187.030	118.226	-64.744	1.00	53.77	A16S
ATOM	14995	N3	G	A	718	187.971	119.190	-64.671	1.00	53.77	A16S
ATOM	14996	C2	G	A	718	187.987	119.946	-65.760	1.00	53.77	A16S
ATOM	14997	N2	G	A	718	188.865	120.960	-65.861	1.00	53.77	A16S
ATOM	14998	N1	G	A	718	187.142	119.764	-66.829	1.00	53.77	A16S
ATOM	14999	C6	G	A	718	186.167	118.774	-66.918	1.00	53.77	A16S
ATOM	15000	O6	G	A	718	185.448	118.692	-67.923	1.00	53.77	A16S
ATOM	15001	C5	G	A	718	186.145	117.964	-65.771	1.00	53.77	A16S
ATOM	15002	N7	G	A	718	185.344	116.876	-65.469	1.00	53.77	A16S
ATOM	15003	C8	G	A	718	185.740	116.506	-64.285	1.00	53.77	A16S
ATOM	15004	C2*	G	A	718	187.472	118.389	-61.621	1.00	49.49	A16S
ATOM	15005	O2*	G	A	718	188.708	118.431	-60.940	1.00	49.49	A16S
ATOM	15006	C3*	G	A	718	186.296	118.200	-60.670	1.00	49.49	A16S
ATOM	15007	O3*	G	A	718	186.477	118.722	-59.362	1.00	49.49	A16S
ATOM	15008	P	C	A	719	185.220	119.350	-58.580	1.00	55.24	A16S

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ATOM	15009	O1P	C	A	719	185.689	119.619	-57.190	1.00	48.94	A16S
ATOM	15010	O2P	C	A	719	183.996	118.525	-58.785	1.00	48.94	A16S
ATOM	15011	O5*	C	A	719	185.043	120.735	-59.339	1.00	55.24	A16S
ATOM	15012	C5*	C	A	719	186.145	121.646	-59.399	1.00	55.24	A16S
ATOM	15013	C4*	C	A	719	186.042	122.524	-60.613	1.00	55.24	A16S
ATOM	15014	O4*	C	A	719	186.124	121.715	-61.801	1.00	55.24	A16S
ATOM	15015	C1*	C	A	719	185.519	122.420	-62.863	1.00	55.24	A16S
ATOM	15016	N1	C	A	719	184.758	121.484	-63.699	1.00	48.94	A16S
ATOM	15017	C6	C	A	719	184.387	120.256	-63.229	1.00	48.94	A16S
ATOM	15018	C2	C	A	719	184.424	121.875	-65.006	1.00	48.94	A16S
ATOM	15019	O2	C	A	719	184.772	122.999	-65.412	1.00	48.94	A16S
ATOM	15020	N3	C	A	719	183.740	121.026	-65.791	1.00	48.94	A16S
ATOM	15021	C4	C	A	719	183.390	119.827	-65.327	1.00	48.94	A16S
ATOM	15022	N4	C	A	719	182.722	119.014	-66.151	1.00	48.94	A16S
ATOM	15023	C5	C	A	719	183.711	119.405	-64.000	1.00	48.94	A16S
ATOM	15024	C2*	C	A	719	184.719	123.589	-62.280	1.00	55.24	A16S
ATOM	15025	O2*	C	A	719	185.395	124.787	-62.580	1.00	55.24	A16S
ATOM	15026	C3*	C	A	719	184.741	123.286	-60.787	1.00	55.24	A16S
ATOM	15027	O3*	C	A	719	184.766	124.483	-60.022	1.00	55.24	A16S
ATOM	15028	P	C	A	720	183.688	124.692	-58.851	1.00	51.32	A16S
ATOM	15029	O1P	C	A	720	183.970	126.000	-58.191	1.00	51.31	A16S
ATOM	15030	O2P	C	A	720	183.661	123.450	-58.033	1.00	51.31	A16S
ATOM	15031	O5*	C	A	720	182.305	124.790	-59.630	1.00	51.32	A16S
ATOM	15032	C5*	C	A	720	182.021	125.910	-60.477	1.00	51.32	A16S
ATOM	15033	C4*	C	A	720	180.836	125.600	-61.352	1.00	51.32	A16S
ATOM	15034	O4*	C	A	720	181.183	124.537	-62.279	1.00	51.32	A16S
ATOM	15035	C1*	C	A	720	180.073	123.678	-62.445	1.00	51.32	A16S
ATOM	15036	N1	C	A	720	180.481	122.331	-62.020	1.00	51.31	A16S
ATOM	15037	C6	C	A	720	181.523	122.152	-61.149	1.00	51.31	A16S
ATOM	15038	C2	C	A	720	179.788	121.224	-62.529	1.00	51.31	A16S
ATOM	15039	O2	C	A	720	178.830	121.414	-63.291	1.00	51.31	A16S
ATOM	15040	N3	C	A	720	180.174	119.978	-62.174	1.00	51.31	A16S
ATOM	15041	C4	C	A	720	181.194	119.814	-61.331	1.00	51.31	A16S
ATOM	15042	N4	C	A	720	181.533	118.566	-61.005	1.00	51.31	A16S
ATOM	15043	C5	C	A	720	181.910	120.923	-60.782	1.00	51.31	A16S
ATOM	15044	C2*	C	A	720	178.898	124.245	-61.638	1.00	51.32	A16S
ATOM	15045	O2*	C	A	720	178.037	124.988	-62.483	1.00	51.32	A16S
ATOM	15046	C3*	C	A	720	179.616	125.099	-60.595	1.00	51.32	A16S
ATOM	15047	O3*	C	A	720	178.841	126.207	-60.141	1.00	51.32	A16S
ATOM	15048	P	G	A	721	178.077	126.145	-58.718	1.00	58.65	A16S
ATOM	15049	O1P	G	A	721	176.830	125.330	-58.861	1.00	60.07	A16S
ATOM	15050	O2P	G	A	721	177.987	127.549	-58.235	1.00	60.07	A16S
ATOM	15051	O5*	G	A	721	179.052	125.361	-57.735	1.00	58.65	A16S
ATOM	15052	C5*	G	A	721	178.750	125.306	-56.339	1.00	58.65	A16S
ATOM	15053	C4*	G	A	721	179.145	123.972	-55.754	1.00	58.65	A16S
ATOM	15054	O4*	G	A	721	178.377	122.896	-56.365	1.00	58.65	A16S
ATOM	15055	C1*	G	A	721	179.250	121.868	-56.796	1.00	58.65	A16S
ATOM	15056	N9	G	A	721	178.732	121.337	-58.054	1.00	60.07	A16S
ATOM	15057	C4	G	A	721	178.694	120.015	-58.463	1.00	60.07	A16S
ATOM	15058	N3	G	A	721	179.133	118.947	-57.765	1.00	60.07	A16S
ATOM	15059	C2	G	A	721	178.966	117.812	-58.440	1.00	60.07	A16S
ATOM	15060	N2	G	A	721	179.355	116.654	-57.902	1.00	60.07	A16S
ATOM	15061	N1	G	A	721	178.408	117.728	-59.697	1.00	60.07	A16S
ATOM	15062	C6	G	A	721	177.945	118.813	-60.434	1.00	60.07	A16S
ATOM	15063	O6	G	A	721	177.451	118.634	-61.564	1.00	60.07	A16S
ATOM	15064	C5	G	A	721	178.124	120.042	-59.723	1.00	60.07	A16S
ATOM	15065	N7	G	A	721	177.811	121.343	-60.093	1.00	60.07	A16S
ATOM	15066	C8	G	A	721	178.185	122.072	-59.076	1.00	60.07	A16S
ATOM	15067	C2*	G	A	721	180.629	122.515	-56.948	1.00	58.65	A16S
ATOM	15068	O2*	G	A	721	181.655	121.555	-56.768	1.00	58.65	A16S
ATOM	15069	C3*	G	A	721	180.612	123.587	-55.856	1.00	58.65	A16S
ATOM	15070	O3*	G	A	721	181.035	123.052	-54.610	1.00	58.65	A16S
ATOM	15071	P	A	A	722	181.912	123.958	-53.613	1.00	80.62	A16S
ATOM	15072	O1P	A	A	722	182.544	125.040	-54.412	1.00	40.10	A16S
ATOM	15073	O2P	A	A	722	182.766	123.061	-52.781	1.00	40.10	A16S
ATOM	15074	O5*	A	A	722	180.827	124.633	-52.667	1.00	80.62	A16S
ATOM	15075	C5*	A	A	722	180.058	123.830	-51.758	1.00	80.62	A16S
ATOM	15076	C4*	A	A	722	178.694	124.432	-51.556	1.00	80.62	A16S
ATOM	15077	O4*	A	A	722	178.056	124.627	-52.830	1.00	80.62	A16S
ATOM	15078	C1*	A	A	722	176.660	124.560	-52.662	1.00	80.62	A16S
ATOM	15079	N9	A	A	722	176.084	123.860	-53.805	1.00	40.10	A16S
ATOM	15080	C4	A	A	722	176.269	122.555	-54.172	1.00	40.10	A16S
ATOM	15081	N3	A	A	722	176.983	121.628	-53.526	1.00	40.10	A16S
ATOM	15082	C2	A	A	722	176.949	120.486	-54.196	1.00	40.10	A16S
ATOM	15083	N1	A	A	722	176.333	120.198	-55.353	1.00	40.10	A16S
ATOM	15084	C6	A	A	722	175.626	121.165	-55.968	1.00	40.10	A16S
ATOM	15085	N6	A	A	722	175.012	120.895	-57.122	1.00	40.10	A16S

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ATOM	15086	C5	A	A 722	175.576	122.400	-55.363	1.00	40.10	A16S
ATOM	15087	N7	A	A 722	174.943	123.571	-55.725	1.00	40.10	A16S
ATOM	15088	C8	A	A 722	175.266	124.407	-54.766	1.00	40.10	A16S
ATOM	15089	C2*	A	A 722	176.355	124.026	-51.264	1.00	80.62	A16S
ATOM	15090	O2*	A	A 722	175.834	125.118	-50.543	1.00	80.62	A16S
ATOM	15091	C3*	A	A 722	177.731	123.566	-50.772	1.00	80.62	A16S
ATOM	15092	O3*	A	A 722	177.905	123.900	-49.402	1.00	80.62	A16S
ATOM	15093	P	U	A 723	178.594	122.859	-48.397	1.00	122.25	A16S
ATOM	15094	O1P	U	A 723	179.879	123.473	-47.987	1.00	157.60	A16S
ATOM	15095	O2P	U	A 723	178.587	121.511	-49.022	1.00	157.60	A16S
ATOM	15096	O5*	U	A 723	177.615	122.855	-47.134	1.00	122.25	A16S
ATOM	15097	C5*	U	A 723	176.179	122.793	-47.314	1.00	122.25	A16S
ATOM	15098	C4*	U	A 723	175.509	124.008	-46.703	1.00	122.25	A16S
ATOM	15099	O4*	U	A 723	176.438	125.123	-46.677	1.00	122.25	A16S
ATOM	15100	C1*	U	A 723	175.772	126.322	-47.046	1.00	122.25	A16S
ATOM	15101	N1	U	A 723	176.430	126.844	-48.267	1.00	157.60	A16S
ATOM	15102	C6	U	A 723	177.784	126.629	-48.471	1.00	157.60	A16S
ATOM	15103	C2	U	A 723	175.676	127.551	-49.221	1.00	157.60	A16S
ATOM	15104	O2	U	A 723	174.483	127.798	-49.100	1.00	157.60	A16S
ATOM	15105	N3	U	A 723	176.383	127.957	-50.329	1.00	157.60	A16S
ATOM	15106	C4	U	A 723	177.725	127.755	-50.589	1.00	157.60	A16S
ATOM	15107	O4	U	A 723	178.199	128.151	-51.657	1.00	157.60	A16S
ATOM	15108	C5	U	A 723	178.433	127.048	-49.565	1.00	157.60	A16S
ATOM	15109	C2*	U	A 723	174.277	125.992	-47.159	1.00	122.25	A16S
ATOM	15110	O2*	U	A 723	173.630	126.253	-45.927	1.00	122.25	A16S
ATOM	15111	C3*	U	A 723	174.310	124.509	-47.495	1.00	122.25	A16S
ATOM	15112	O3*	U	A 723	173.102	123.851	-47.142	1.00	122.25	A16S
ATOM	15113	P	G	A 724	172.484	122.742	-48.131	1.00	64.37	A16S
ATOM	15114	O1P	G	A 724	171.016	122.614	-47.880	1.00	59.11	A16S
ATOM	15115	O2P	G	A 724	173.359	121.522	-48.015	1.00	59.11	A16S
ATOM	15116	O5*	G	A 724	172.650	123.378	-49.584	1.00	64.37	A16S
ATOM	15117	C5*	G	A 724	171.902	124.530	-49.986	1.00	64.37	A16S
ATOM	15118	C4*	G	A 724	171.455	124.383	-51.423	1.00	64.37	A16S
ATOM	15119	O4*	G	A 724	172.616	124.121	-52.257	1.00	64.37	A16S
ATOM	15120	C1*	G	A 724	172.270	123.225	-53.304	1.00	64.37	A16S
ATOM	15121	N9	G	A 724	172.980	121.960	-53.101	1.00	59.11	A16S
ATOM	15122	C4	G	A 724	172.932	120.865	-53.934	1.00	59.11	A16S
ATOM	15123	N3	G	A 724	172.265	120.787	-55.107	1.00	59.11	A16S
ATOM	15124	C2	G	A 724	172.388	119.594	-55.668	1.00	59.11	A16S
ATOM	15125	N2	G	A 724	171.794	119.342	-56.853	1.00	59.11	A16S
ATOM	15126	N1	G	A 724	173.103	118.563	-55.113	1.00	59.11	A16S
ATOM	15127	C6	G	A 724	173.799	118.628	-53.910	1.00	59.11	A16S
ATOM	15128	O6	G	A 724	174.412	117.646	-53.505	1.00	59.11	A16S
ATOM	15129	C5	G	A 724	173.682	119.895	-53.305	1.00	59.11	A16S
ATOM	15130	N7	G	A 724	174.220	120.376	-52.120	1.00	59.11	A16S
ATOM	15131	C8	G	A 724	173.785	121.604	-52.043	1.00	59.11	A16S
ATOM	15132	C2*	G	A 724	170.766	122.988	-53.211	1.00	64.37	A16S
ATOM	15133	O2*	G	A 724	170.087	123.902	-54.049	1.00	64.37	A16S
ATOM	15134	C3*	G	A 724	170.520	123.221	-51.728	1.00	64.37	A16S
ATOM	15135	O3*	G	A 724	169.153	123.502	-51.454	1.00	64.37	A16S
ATOM	15136	P	G	A 725	168.145	122.288	-51.110	1.00	44.84	A16S
ATOM	15137	O1P	G	A 725	166.834	122.911	-50.783	1.00	50.35	A16S
ATOM	15138	O2P	G	A 725	168.797	121.386	-50.108	1.00	50.35	A16S
ATOM	15139	O5*	G	A 725	167.969	121.524	-52.500	1.00	44.84	A16S
ATOM	15140	C5*	G	A 725	167.444	122.217	-53.645	1.00	44.84	A16S
ATOM	15141	C4*	G	A 725	167.505	121.277	-54.811	1.00	44.84	A16S
ATOM	15142	O4*	G	A 725	168.616	120.781	-55.182	1.00	44.84	A16S
ATOM	15143	C1*	G	A 725	168.521	119.428	-55.603	1.00	44.84	A16S
ATOM	15144	N9	G	A 725	169.301	118.601	-54.683	1.00	50.35	A16S
ATOM	15145	C4	G	A 725	169.571	117.253	-54.811	1.00	50.35	A16S
ATOM	15146	N3	G	A 725	169.176	116.454	-55.822	1.00	50.35	A16S
ATOM	15147	C2	G	A 725	169.568	115.203	-55.643	1.00	50.35	A16S
ATOM	15148	N2	G	A 725	169.256	114.263	-56.545	1.00	50.35	A16S
ATOM	15149	N1	G	A 725	170.289	114.778	-54.570	1.00	50.35	A16S
ATOM	15150	C6	G	A 725	170.716	115.584	-53.530	1.00	50.35	A16S
ATOM	15151	O6	G	A 725	171.379	115.097	-52.616	1.00	50.35	A16S
ATOM	15152	C5	G	A 725	170.300	116.921	-53.697	1.00	50.35	A16S
ATOM	15153	N7	G	A 725	170.505	118.031	-52.892	1.00	50.35	A16S
ATOM	15154	C8	G	A 725	169.897	119.002	-53.514	1.00	50.35	A16S
ATOM	15155	C2*	G	A 725	167.040	119.054	-55.598	1.00	44.84	A16S
ATOM	15156	O2*	G	A 725	166.530	119.266	-56.902	1.00	44.84	A16S
ATOM	15157	C3*	G	A 725	166.490	120.024	-54.555	1.00	44.84	A16S
ATOM	15158	O3*	G	A 725	165.091	120.257	-54.668	1.00	44.84	A16S
ATOM	15159	P	C	A 726	164.062	119.276	-53.907	1.00	47.20	A16S
ATOM	15160	O1P	C	A 726	162.674	119.666	-54.294	1.00	49.93	A16S
ATOM	15161	O2P	C	A 726	164.442	119.218	-52.459	1.00	49.93	A16S
ATOM	15162	O5*	C	A 726	164.317	117.869	-54.604	1.00	47.20	A16S

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ATOM	15163	C5*	C	A	726	163.989	117.706	-55.986	1.00	47.20	A16S
ATOM	15164	C4*	C	A	726	164.129	116.274	-56.392	1.00	47.20	A16S
ATOM	15165	O4*	C	A	726	165.530	115.900	-56.435	1.00	47.20	A16S
ATOM	15166	C1*	C	A	726	165.672	114.535	-56.074	1.00	47.20	A16S
ATOM	15167	N1	C	A	726	166.491	114.448	-54.850	1.00	49.93	A16S
ATOM	15168	C6	C	A	726	166.807	115.564	-54.125	1.00	49.93	A16S
ATOM	15169	C2	C	A	726	166.922	113.188	-54.421	1.00	49.93	A16S
ATOM	15170	O2	C	A	726	166.647	112.197	-55.110	1.00	49.93	A16S
ATOM	15171	N3	C	A	726	167.625	113.086	-53.267	1.00	49.93	A16S
ATOM	15172	C4	C	A	726	167.901	114.181	-52.558	1.00	49.93	A16S
ATOM	15173	N4	C	A	726	168.560	114.035	-51.416	1.00	49.93	A16S
ATOM	15174	C5	C	A	726	167.504	115.473	-52.985	1.00	49.93	A16S
ATOM	15175	C2*	C	A	726	164.266	113.994	-55.816	1.00	47.20	A16S
ATOM	15176	O2*	C	A	726	163.784	113.410	-57.008	1.00	47.20	A16S
ATOM	15177	C3*	C	A	726	163.518	115.268	-55.445	1.00	47.20	A16S
ATOM	15178	O3*	C	A	726	162.117	115.171	-55.582	1.00	47.20	A16S
ATOM	15179	P	G	A	727	161.243	114.734	-54.311	1.00	55.91	A16S
ATOM	15180	O1P	G	A	727	159.822	114.698	-54.748	1.00	45.75	A16S
ATOM	15181	O2P	G	A	727	161.647	115.554	-53.123	1.00	45.75	A16S
ATOM	15182	O5*	G	A	727	161.699	113.235	-54.061	1.00	55.91	A16S
ATOM	15183	C5*	G	A	727	161.394	112.235	-55.029	1.00	55.91	A16S
ATOM	15184	C4*	G	A	727	161.877	110.886	-54.569	1.00	55.91	A16S
ATOM	15185	O4*	G	A	727	163.328	110.876	-54.514	1.00	55.91	A16S
ATOM	15186	C1*	G	A	727	163.755	109.989	-53.495	1.00	55.91	A16S
ATOM	15187	N9	G	A	727	164.485	110.757	-52.490	1.00	45.75	A16S
ATOM	15188	C4	G	A	727	165.357	110.267	-51.542	1.00	45.75	A16S
ATOM	15189	N3	G	A	727	165.783	108.995	-51.437	1.00	45.75	A16S
ATOM	15190	C2	G	A	727	166.572	108.825	-50.386	1.00	45.75	A16S
ATOM	15191	N2	G	A	727	167.119	107.621	-50.143	1.00	45.75	A16S
ATOM	15192	N1	G	A	727	166.893	109.822	-49.495	1.00	45.75	A16S
ATOM	15193	C6	G	A	727	166.462	111.139	-49.585	1.00	45.75	A16S
ATOM	15194	O6	G	A	727	166.793	111.961	-48.713	1.00	45.75	A16S
ATOM	15195	C5	G	A	727	165.647	111.339	-50.727	1.00	45.75	A16S
ATOM	15196	N7	G	A	727	165.042	112.493	-51.200	1.00	45.75	A16S
ATOM	15197	C8	G	A	727	164.378	112.103	-52.253	1.00	45.75	A16S
ATOM	15198	C2*	G	A	727	162.495	109.358	-52.888	1.00	55.91	A16S
ATOM	15199	O2*	G	A	727	162.224	108.135	-53.553	1.00	55.91	A16S
ATOM	15200	C3*	G	A	727	161.441	110.418	-53.189	1.00	55.91	A16S
ATOM	15201	O3*	G	A	727	160.100	109.913	-53.174	1.00	55.91	A16S
ATOM	15202	P	A	A	728	159.056	110.428	-52.044	1.00	43.68	A16S
ATOM	15203	O1P	A	A	728	157.697	109.874	-52.340	1.00	52.13	A16S
ATOM	15204	O2P	A	A	728	159.216	111.900	-51.867	1.00	52.13	A16S
ATOM	15205	O5*	A	A	728	159.550	109.697	-50.723	1.00	43.68	A16S
ATOM	15206	C5*	A	A	728	158.851	109.875	-49.491	1.00	43.68	A16S
ATOM	15207	C4*	A	A	728	159.263	108.809	-48.517	1.00	43.68	A16S
ATOM	15208	O4*	A	A	728	158.679	107.548	-48.902	1.00	43.68	A16S
ATOM	15209	C1*	A	A	728	159.606	106.508	-48.696	1.00	43.68	A16S
ATOM	15210	N9	A	A	728	159.911	105.964	-50.009	1.00	52.13	A16S
ATOM	15211	C4	A	A	728	160.234	104.668	-50.324	1.00	52.13	A16S
ATOM	15212	N3	A	A	728	160.346	103.626	-49.488	1.00	52.13	A16S
ATOM	15213	C2	A	A	728	160.657	102.527	-50.155	1.00	52.13	A16S
ATOM	15214	N1	A	A	728	160.856	102.364	-51.460	1.00	52.13	A16S
ATOM	15215	C6	A	A	728	160.739	103.438	-52.268	1.00	52.13	A16S
ATOM	15216	N6	A	A	728	160.940	103.290	-53.572	1.00	52.13	A16S
ATOM	15217	C5	A	A	728	160.413	104.651	-51.691	1.00	52.13	A16S
ATOM	15218	N7	A	A	728	160.214	105.912	-52.235	1.00	52.13	A16S
ATOM	15219	C8	A	A	728	159.922	106.655	-51.198	1.00	52.13	A16S
ATOM	15220	C2*	A	A	728	160.835	107.106	-48.021	1.00	43.68	A16S
ATOM	15221	O2*	A	A	728	160.661	106.979	-46.632	1.00	43.68	A16S
ATOM	15222	C3*	A	A	728	160.753	108.553	-48.481	1.00	43.68	A16S
ATOM	15223	O3*	A	A	728	161.385	109.467	-47.610	1.00	43.68	A16S
ATOM	15224	P	A	A	729	162.908	109.885	-47.888	1.00	38.81	A16S
ATOM	15225	O1P	A	A	729	163.259	110.952	-46.895	1.00	43.34	A16S
ATOM	15226	O2P	A	A	729	163.069	110.169	-49.350	1.00	43.34	A16S
ATOM	15227	O5*	A	A	729	163.708	108.555	-47.511	1.00	38.81	A16S
ATOM	15228	C5*	A	A	729	163.742	108.127	-46.146	1.00	38.81	A16S
ATOM	15229	C4*	A	A	729	164.229	106.707	-46.021	1.00	38.81	A16S
ATOM	15230	O4*	A	A	729	163.329	105.800	-46.696	1.00	38.81	A16S
ATOM	15231	C1*	A	A	729	164.047	104.654	-47.106	1.00	38.81	A16S
ATOM	15232	N9	A	A	729	163.962	104.526	-48.557	1.00	43.34	A16S
ATOM	15233	C4	A	A	729	164.091	103.338	-49.222	1.00	43.34	A16S
ATOM	15234	N3	A	A	729	164.279	102.129	-48.677	1.00	43.34	A16S
ATOM	15235	C2	A	A	729	164.371	101.201	-49.621	1.00	43.34	A16S
ATOM	15236	N1	A	A	729	164.305	101.336	-50.946	1.00	43.34	A16S
ATOM	15237	C6	A	A	729	164.115	102.567	-51.463	1.00	43.34	A16S
ATOM	15238	N6	A	A	729	164.060	102.695	-52.789	1.00	43.34	A16S
ATOM	15239	C5	A	A	729	163.994	103.641	-50.564	1.00	43.34	A16S

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ATOM	15240	N7	A	A	729	163.785	105.003	-50.747	1.00	43.34	A16S
ATOM	15241	C8	A	A	729	163.774	105.483	-49.526	1.00	43.34	A16S
ATOM	15242	C2*	A	A	729	165.494	104.844	-46.680	1.00	38.81	A16S
ATOM	15243	O2*	A	A	729	165.628	104.232	-45.422	1.00	38.81	A16S
ATOM	15244	C3*	A	A	729	165.586	106.356	-46.587	1.00	38.81	A16S
ATOM	15245	O3*	A	A	729	166.639	106.755	-45.738	1.00	38.81	A16S
ATOM	15246	P	G	A	730	168.068	107.103	-46.383	1.00	41.04	A16S
ATOM	15247	O1P	G	A	730	169.005	107.481	-45.285	1.00	41.01	A16S
ATOM	15248	O2P	G	A	730	167.828	108.055	-47.509	1.00	41.01	A16S
ATOM	15249	O5*	G	A	730	168.569	105.695	-46.950	1.00	41.04	A16S
ATOM	15250	C5*	G	A	730	168.984	104.655	-46.033	1.00	41.04	A16S
ATOM	15251	C4*	G	A	730	169.279	103.358	-46.758	1.00	41.04	A16S
ATOM	15252	O4*	G	A	730	168.106	102.923	-47.490	1.00	41.04	A16S
ATOM	15253	C1*	G	A	730	168.498	102.261	-48.681	1.00	41.04	A16S
ATOM	15254	N9	G	A	730	168.090	103.080	-49.818	1.00	41.01	A16S
ATOM	15255	C4	G	A	730	168.175	102.736	-51.142	1.00	41.01	A16S
ATOM	15256	N3	G	A	730	168.614	101.565	-51.624	1.00	41.01	A16S
ATOM	15257	C2	G	A	730	168.637	101.551	-52.942	1.00	41.01	A16S
ATOM	15258	N2	G	A	730	169.083	100.466	-53.587	1.00	41.01	A16S
ATOM	15259	N1	G	A	730	168.238	102.594	-53.726	1.00	41.01	A16S
ATOM	15260	C6	G	A	730	167.771	103.807	-53.252	1.00	41.01	A16S
ATOM	15261	O6	G	A	730	167.436	104.692	-54.051	1.00	41.01	A16S
ATOM	15262	C5	G	A	730	167.757	103.841	-51.835	1.00	41.01	A16S
ATOM	15263	N7	G	A	730	167.384	104.853	-50.965	1.00	41.01	A16S
ATOM	15264	C8	G	A	730	167.589	104.354	-49.781	1.00	41.01	A16S
ATOM	15265	C2*	G	A	730	170.017	102.156	-48.637	1.00	41.04	A16S
ATOM	15266	O2*	G	A	730	170.325	100.953	-47.967	1.00	41.04	A16S
ATOM	15267	C3*	G	A	730	170.376	103.368	-47.800	1.00	41.04	A16S
ATOM	15268	O3*	G	A	730	171.645	103.230	-47.220	1.00	41.04	A16S
ATOM	15269	P	G	A	731	172.803	104.276	-47.608	1.00	45.14	A16S
ATOM	15270	O1P	G	A	731	174.058	103.499	-47.782	1.00	47.75	A16S
ATOM	15271	O2P	G	A	731	172.772	105.415	-46.641	1.00	47.75	A16S
ATOM	15272	O5*	G	A	731	172.399	104.834	-49.044	1.00	45.14	A16S
ATOM	15273	C5*	G	A	731	173.117	104.446	-50.220	1.00	45.14	A16S
ATOM	15274	C4*	G	A	731	172.213	104.541	-51.414	1.00	45.14	A16S
ATOM	15275	O4*	G	A	731	170.925	105.040	-50.978	1.00	45.14	A16S
ATOM	15276	C1*	G	A	731	170.426	105.971	-51.919	1.00	45.14	A16S
ATOM	15277	N9	G	A	731	170.374	107.274	-51.263	1.00	47.75	A16S
ATOM	15278	C4	G	A	731	169.805	108.425	-51.752	1.00	47.75	A16S
ATOM	15279	N3	G	A	731	169.197	108.564	-52.943	1.00	47.75	A16S
ATOM	15280	C2	G	A	731	168.736	109.787	-53.120	1.00	47.75	A16S
ATOM	15281	N2	G	A	731	168.103	110.097	-54.244	1.00	47.75	A16S
ATOM	15282	N1	G	A	731	168.857	110.796	-52.209	1.00	47.75	A16S
ATOM	15283	C6	G	A	731	169.473	110.680	-50.970	1.00	47.75	A16S
ATOM	15284	O6	G	A	731	169.512	111.656	-50.204	1.00	47.75	A16S
ATOM	15285	C5	G	A	731	169.983	109.368	-50.764	1.00	47.75	A16S
ATOM	15286	N7	G	A	731	170.659	108.826	-49.681	1.00	47.75	A16S
ATOM	15287	C8	G	A	731	170.873	107.587	-50.022	1.00	47.75	A16S
ATOM	15288	C2*	G	A	731	171.359	105.934	-53.128	1.00	45.14	A16S
ATOM	15289	O2*	G	A	731	170.895	104.954	-54.042	1.00	45.14	A16S
ATOM	15290	C3*	G	A	731	172.667	105.518	-52.480	1.00	45.14	A16S
ATOM	15291	O3*	G	A	731	173.542	104.908	-53.404	1.00	45.14	A16S
ATOM	15292	P	C	A	732	174.564	105.822	-54.241	1.00	44.40	A16S
ATOM	15293	O1P	C	A	732	175.311	104.891	-55.127	1.00	38.60	A16S
ATOM	15294	O2P	C	A	732	175.310	106.738	-53.333	1.00	38.60	A16S
ATOM	15295	O5*	C	A	732	173.611	106.694	-55.159	1.00	44.40	A16S
ATOM	15296	C5*	C	A	732	172.763	106.057	-56.113	1.00	44.40	A16S
ATOM	15297	C4*	C	A	732	172.070	107.091	-56.942	1.00	44.40	A16S
ATOM	15298	O4*	C	A	732	171.107	107.804	-56.131	1.00	44.40	A16S
ATOM	15299	C1*	C	A	732	171.087	109.167	-56.507	1.00	44.40	A16S
ATOM	15300	N1	C	A	732	171.419	109.978	-55.333	1.00	38.60	A16S
ATOM	15301	C6	C	A	732	172.025	109.426	-54.249	1.00	38.60	A16S
ATOM	15302	C2	C	A	732	171.111	111.330	-55.350	1.00	38.60	A16S
ATOM	15303	O2	C	A	732	170.542	111.799	-56.336	1.00	38.60	A16S
ATOM	15304	N3	C	A	732	171.437	112.100	-54.295	1.00	38.60	A16S
ATOM	15305	C4	C	A	732	172.045	111.559	-53.248	1.00	38.60	A16S
ATOM	15306	N4	C	A	732	172.374	112.360	-52.232	1.00	38.60	A16S
ATOM	15307	C5	C	A	732	172.351	110.171	-53.195	1.00	38.60	A16S
ATOM	15308	C2*	C	A	732	172.072	109.353	-57.662	1.00	44.40	A16S
ATOM	15309	O2*	C	A	732	171.364	109.299	-58.883	1.00	44.40	A16S
ATOM	15310	C3*	C	A	732	173.004	108.163	-57.462	1.00	44.40	A16S
ATOM	15311	O3*	C	A	732	173.658	107.711	-58.640	1.00	44.40	A16S
ATOM	15312	P	A	A	733	175.202	108.080	-58.890	1.00	66.22	A16S
ATOM	15313	O1P	A	A	733	175.697	107.030	-59.810	1.00	53.12	A16S
ATOM	15314	O2P	A	A	733	175.930	108.355	-57.615	1.00	53.12	A16S
ATOM	15315	O5*	A	A	733	175.099	109.434	-59.698	1.00	66.22	A16S
ATOM	15316	C5*	A	A	733	176.202	109.960	-60.421	1.00	66.22	A16S

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ATOM	15317	C4*	A	A	733	175.947	111.403	-60.647	1.00	66.22	A16S
ATOM	15318	O4*	A	A	733	175.863	112.031	-59.368	1.00	66.22	A16S
ATOM	15319	C1*	A	A	733	175.870	113.401	-59.594	1.00	66.22	A16S
ATOM	15320	N9	A	A	733	176.289	114.115	-58.403	1.00	53.12	A16S
ATOM	15321	C4	A	A	733	176.056	115.450	-58.222	1.00	53.12	A16S
ATOM	15322	N3	A	A	733	175.484	116.293	-59.096	1.00	53.12	A16S
ATOM	15323	C2	A	A	733	175.379	117.503	-58.570	1.00	53.12	A16S
ATOM	15324	N1	A	A	733	175.750	117.933	-57.359	1.00	53.12	A16S
ATOM	15325	C6	A	A	733	176.321	117.053	-56.506	1.00	53.12	A16S
ATOM	15326	N6	A	A	733	176.679	117.474	-55.290	1.00	53.12	A16S
ATOM	15327	C5	A	A	733	176.498	115.738	-56.952	1.00	53.12	A16S
ATOM	15328	N7	A	A	733	177.042	114.608	-56.352	1.00	53.12	A16S
ATOM	15329	C8	A	A	733	176.903	113.676	-57.260	1.00	53.12	A16S
ATOM	15330	C2*	A	A	733	176.619	113.673	-60.895	1.00	66.22	A16S
ATOM	15331	O2*	A	A	733	175.657	114.370	-61.678	1.00	66.22	A16S
ATOM	15332	C3*	A	A	733	176.948	112.254	-61.399	1.00	66.22	A16S
ATOM	15333	O3*	A	A	733	176.575	112.192	-62.772	1.00	66.22	A16S
ATOM	15334	P	G	A	734	177.445	111.361	-63.824	1.00	51.48	A16S
ATOM	15335	O1P	G	A	734	176.465	110.492	-64.551	1.00	51.77	A16S
ATOM	15336	O2P	G	A	734	178.608	110.754	-63.119	1.00	51.77	A16S
ATOM	15337	O5*	G	A	734	177.943	112.455	-64.869	1.00	51.48	A16S
ATOM	15338	C5*	G	A	734	178.453	113.732	-64.437	1.00	51.48	A16S
ATOM	15339	C4*	G	A	734	179.123	114.431	-65.593	1.00	51.48	A16S
ATOM	15340	O4*	G	A	734	180.225	113.600	-66.025	1.00	51.48	A16S
ATOM	15341	C1*	G	A	734	180.249	113.516	-67.433	1.00	51.48	A16S
ATOM	15342	N9	G	A	734	179.974	112.127	-67.796	1.00	51.77	A16S
ATOM	15343	C4	G	A	734	179.812	111.622	-69.068	1.00	51.77	A16S
ATOM	15344	N3	G	A	734	179.881	112.327	-70.221	1.00	51.77	A16S
ATOM	15345	C2	G	A	734	179.693	111.563	-71.286	1.00	51.77	A16S
ATOM	15346	N2	G	A	734	179.748	112.101	-72.516	1.00	51.77	A16S
ATOM	15347	N1	G	A	734	179.441	110.216	-71.230	1.00	51.77	A16S
ATOM	15348	C6	G	A	734	179.348	109.461	-70.063	1.00	51.77	A16S
ATOM	15349	O6	G	A	734	179.086	108.236	-70.130	1.00	51.77	A16S
ATOM	15350	C5	G	A	734	179.572	110.273	-68.897	1.00	51.77	A16S
ATOM	15351	N7	G	A	734	179.589	109.936	-67.545	1.00	51.77	A16S
ATOM	15352	C8	G	A	734	179.828	111.063	-66.935	1.00	51.77	A16S
ATOM	15353	C2*	G	A	734	179.234	114.526	-67.967	1.00	51.48	A16S
ATOM	15354	O2*	G	A	734	179.894	115.765	-68.146	1.00	51.48	A16S
ATOM	15355	C3*	G	A	734	178.237	114.597	-66.821	1.00	51.48	A16S
ATOM	15356	O3*	G	A	734	177.577	115.863	-66.792	1.00	51.48	A16S
ATOM	15357	P	C	A	735	176.003	115.961	-67.126	1.00	50.98	A16S
ATOM	15358	O1P	C	A	735	175.610	117.375	-66.824	1.00	56.55	A16S
ATOM	15359	O2P	C	A	735	175.287	114.822	-66.460	1.00	56.55	A16S
ATOM	15360	O5*	C	A	735	175.918	115.749	-68.701	1.00	50.98	A16S
ATOM	15361	C5*	C	A	735	176.435	116.740	-69.606	1.00	50.98	A16S
ATOM	15362	C4*	C	A	735	176.404	116.209	-71.011	1.00	50.98	A16S
ATOM	15363	O4*	C	A	735	177.323	115.095	-71.124	1.00	50.98	A16S
ATOM	15364	C1*	C	A	735	176.774	114.106	-71.976	1.00	50.98	A16S
ATOM	15365	N1	C	A	735	176.629	112.860	-71.214	1.00	56.55	A16S
ATOM	15366	C6	C	A	735	176.694	112.855	-69.850	1.00	56.55	A16S
ATOM	15367	C2	C	A	735	176.403	111.675	-71.912	1.00	56.55	A16S
ATOM	15368	O2	C	A	735	176.396	111.703	-73.152	1.00	56.55	A16S
ATOM	15369	N3	C	A	735	176.207	110.534	-71.228	1.00	56.55	A16S
ATOM	15370	C4	C	A	735	176.254	110.542	-69.900	1.00	56.55	A16S
ATOM	15371	N4	C	A	735	176.047	109.396	-69.265	1.00	56.55	A16S
ATOM	15372	C5	C	A	735	176.515	111.729	-69.161	1.00	56.55	A16S
ATOM	15373	C2*	C	A	735	175.427	114.611	-72.487	1.00	50.98	A16S
ATOM	15374	O2*	C	A	735	175.597	115.116	-73.795	1.00	50.98	A16S
ATOM	15375	C3*	C	A	735	175.060	115.641	-71.422	1.00	50.98	A16S
ATOM	15376	O3*	C	A	735	174.194	116.670	-71.874	1.00	50.98	A16S
ATOM	15377	P	C	A	736	172.614	116.409	-71.905	1.00	58.92	A16S
ATOM	15378	O1P	C	A	736	171.963	117.702	-72.273	1.00	51.85	A16S
ATOM	15379	O2P	C	A	736	172.221	115.706	-70.660	1.00	51.85	A16S
ATOM	15380	O5*	C	A	736	172.433	115.345	-73.068	1.00	58.92	A16S
ATOM	15381	C5*	C	A	736	172.841	115.641	-74.407	1.00	58.92	A16S
ATOM	15382	C4*	C	A	736	172.463	114.500	-75.303	1.00	58.92	A16S
ATOM	15383	O4*	C	A	736	173.303	113.355	-75.025	1.00	58.92	A16S
ATOM	15384	C1*	C	A	736	172.554	112.169	-75.200	1.00	58.92	A16S
ATOM	15385	N1	C	A	736	172.617	111.388	-73.971	1.00	51.85	A16S
ATOM	15386	C6	C	A	736	172.853	111.977	-72.759	1.00	51.85	A16S
ATOM	15387	C2	C	A	736	172.417	110.014	-74.062	1.00	51.85	A16S
ATOM	15388	O2	C	A	736	172.230	109.515	-75.182	1.00	51.85	A16S
ATOM	15389	N3	C	A	736	172.435	109.259	-72.933	1.00	51.85	A16S
ATOM	15390	C4	C	A	736	172.657	109.838	-71.751	1.00	51.85	A16S
ATOM	15391	N4	C	A	736	172.660	109.060	-70.669	1.00	51.85	A16S
ATOM	15392	C5	C	A	736	172.883	111.246	-71.631	1.00	51.85	A16S
ATOM	15393	C2*	C	A	736	171.113	112.544	-75.537	1.00	58.92	A16S

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ATOM	15394	O2*	C	A	736	170.844	112.372	-76.914	1.00	58.92	A16S
ATOM	15395	C3*	C	A	736	171.060	113.985	-75.057	1.00	58.92	A16S
ATOM	15396	O3*	C	A	736	170.090	114.756	-75.719	1.00	58.92	A16S
ATOM	15397	P	A	A	737	168.601	114.775	-75.150	1.00	48.26	A16S
ATOM	15398	O1P	A	A	737	167.940	115.964	-75.778	1.00	54.31	A16S
ATOM	15399	O2P	A	A	737	168.652	114.658	-73.654	1.00	54.31	A16S
ATOM	15400	O5*	A	A	737	167.996	113.417	-75.712	1.00	48.26	A16S
ATOM	15401	C5*	A	A	737	167.862	113.218	-77.112	1.00	48.26	A16S
ATOM	15402	C4*	A	A	737	167.430	111.810	-77.389	1.00	48.26	A16S
ATOM	15403	O4*	A	A	737	168.498	110.903	-77.031	1.00	48.26	A16S
ATOM	15404	C1*	A	A	737	167.946	109.685	-76.559	1.00	48.26	A16S
ATOM	15405	N9	A	A	737	168.387	109.477	-75.180	1.00	54.31	A16S
ATOM	15406	C4	A	A	737	168.466	108.269	-74.532	1.00	54.31	A16S
ATOM	15407	N3	A	A	737	168.171	107.058	-75.026	1.00	54.31	A16S
ATOM	15408	C2	A	A	737	168.353	106.116	-74.104	1.00	54.31	A16S
ATOM	15409	N1	A	A	737	168.767	106.238	-72.845	1.00	54.31	A16S
ATOM	15410	C6	A	A	737	169.060	107.472	-72.385	1.00	54.31	A16S
ATOM	15411	N6	A	A	737	169.481	107.603	-71.129	1.00	54.31	A16S
ATOM	15412	C5	A	A	737	168.905	108.553	-73.260	1.00	54.31	A16S
ATOM	15413	N7	A	A	737	169.103	109.916	-73.101	1.00	54.31	A16S
ATOM	15414	C8	A	A	737	168.785	110.417	-74.267	1.00	54.31	A16S
ATOM	15415	C2*	A	A	737	166.424	109.809	-76.630	1.00	48.26	A16S
ATOM	15416	O2*	A	A	737	165.934	109.254	-77.835	1.00	48.26	A16S
ATOM	15417	C3*	A	A	737	166.243	111.314	-76.586	1.00	48.26	A16S
ATOM	15418	O3*	A	A	737	165.001	111.692	-77.137	1.00	48.26	A16S
ATOM	15419	P	C	A	738	163.692	111.690	-76.201	1.00	59.59	A16S
ATOM	15420	O1P	C	A	738	162.641	112.409	-76.981	1.00	65.71	A16S
ATOM	15421	O2P	C	A	738	164.061	112.173	-74.844	1.00	65.71	A16S
ATOM	15422	O5*	C	A	738	163.312	110.147	-76.052	1.00	59.59	A16S
ATOM	15423	C5*	C	A	738	163.009	109.358	-77.205	1.00	59.59	A16S
ATOM	15424	C4*	C	A	738	162.957	107.901	-76.838	1.00	59.59	A16S
ATOM	15425	O4*	C	A	738	164.263	107.494	-76.366	1.00	59.59	A16S
ATOM	15426	C1*	C	A	738	164.121	106.553	-75.307	1.00	59.59	A16S
ATOM	15427	N1	C	A	738	164.689	107.134	-74.065	1.00	65.71	A16S
ATOM	15428	C6	C	A	738	164.796	108.487	-73.900	1.00	65.71	A16S
ATOM	15429	C2	C	A	738	165.106	106.270	-73.048	1.00	65.71	A16S
ATOM	15430	O2	C	A	738	165.022	105.047	-73.228	1.00	65.71	A16S
ATOM	15431	N3	C	A	738	165.590	106.784	-71.901	1.00	65.71	A16S
ATOM	15432	C4	C	A	738	165.676	108.102	-71.748	1.00	65.71	A16S
ATOM	15433	N4	C	A	738	166.149	108.563	-70.595	1.00	65.71	A16S
ATOM	15434	C5	C	A	738	165.278	109.007	-72.770	1.00	65.71	A16S
ATOM	15435	C2*	C	A	738	162.631	106.258	-75.157	1.00	59.59	A16S
ATOM	15436	O2*	C	A	738	162.297	105.134	-75.942	1.00	59.59	A16S
ATOM	15437	C3*	C	A	738	162.022	107.542	-75.695	1.00	59.59	A16S
ATOM	15438	O3*	C	A	738	160.673	107.380	-76.092	1.00	59.59	A16S
ATOM	15439	P	C	A	739	159.509	107.905	-75.116	1.00	73.74	A16S
ATOM	15440	O1P	C	A	739	158.203	107.866	-75.842	1.00	58.48	A16S
ATOM	15441	O2P	C	A	739	159.996	109.196	-74.541	1.00	58.48	A16S
ATOM	15442	O5*	C	A	739	159.455	106.792	-73.973	1.00	73.74	A16S
ATOM	15443	C5*	C	A	739	159.130	105.426	-74.305	1.00	73.74	A16S
ATOM	15444	C4*	C	A	739	159.403	104.500	-73.139	1.00	73.74	A16S
ATOM	15445	O4*	C	A	739	160.822	104.482	-72.836	1.00	73.74	A16S
ATOM	15446	C1*	C	A	739	161.009	104.309	-71.439	1.00	73.74	A16S
ATOM	15447	N1	C	A	739	161.659	105.521	-70.888	1.00	58.48	A16S
ATOM	15448	C6	C	A	739	161.785	106.660	-71.634	1.00	58.48	A16S
ATOM	15449	C2	C	A	739	162.143	105.486	-69.571	1.00	58.48	A16S
ATOM	15450	O2	C	A	739	162.020	104.436	-68.910	1.00	58.48	A16S
ATOM	15451	N3	C	A	739	162.730	106.591	-69.054	1.00	58.48	A16S
ATOM	15452	C4	C	A	739	162.844	107.692	-69.793	1.00	58.48	A16S
ATOM	15453	N4	C	A	739	163.421	108.751	-69.243	1.00	58.48	A16S
ATOM	15454	C5	C	A	739	162.367	107.756	-71.130	1.00	58.48	A16S
ATOM	15455	C2*	C	A	739	159.630	104.106	-70.820	1.00	73.74	A16S
ATOM	15456	O2*	C	A	739	159.354	102.721	-70.769	1.00	73.74	A16S
ATOM	15457	C3*	C	A	739	158.750	104.848	-71.814	1.00	73.74	A16S
ATOM	15458	O3*	C	A	739	157.389	104.465	-71.736	1.00	73.74	A16S
ATOM	15459	P	U	A	740	156.329	105.487	-71.083	1.00	73.28	A16S
ATOM	15460	O1P	U	A	740	154.985	104.836	-71.153	1.00	50.41	A16S
ATOM	15461	O2P	U	A	740	156.532	106.840	-71.690	1.00	50.41	A16S
ATOM	15462	O5*	U	A	740	156.772	105.566	-69.551	1.00	73.28	A16S
ATOM	15463	C5*	U	A	740	156.572	104.437	-68.687	1.00	73.28	A16S
ATOM	15464	C4*	U	A	740	157.156	104.685	-67.319	1.00	73.28	A16S
ATOM	15465	O4*	U	A	740	158.592	104.883	-67.409	1.00	73.28	A16S
ATOM	15466	C1*	U	A	740	159.025	105.679	-66.317	1.00	73.28	A16S
ATOM	15467	N1	U	A	740	159.689	106.903	-66.804	1.00	50.41	A16S
ATOM	15468	C6	U	A	740	159.478	107.407	-68.069	1.00	50.41	A16S
ATOM	15469	C2	U	A	740	160.536	107.562	-65.911	1.00	50.41	A16S
ATOM	15470	O2	U	A	740	160.791	107.138	-64.795	1.00	50.41	A16S

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ATOM	15471	N3	U	A	740	161.078	108.732	-66.372	1.00	50.41	A16S
ATOM	15472	C4	U	A	740	160.888	109.302	-67.601	1.00	50.41	A16S
ATOM	15473	O4	U	A	740	161.399	110.402	-67.835	1.00	50.41	A16S
ATOM	15474	C5	U	A	740	160.034	108.552	-68.487	1.00	50.41	A16S
ATOM	15475	C2*	U	A	740	157.789	106.033	-65.500	1.00	73.28	A16S
ATOM	15476	O2*	U	A	740	157.656	105.081	-64.466	1.00	73.28	A16S
ATOM	15477	C3*	U	A	740	156.685	105.895	-66.537	1.00	73.28	A16S
ATOM	15478	O3*	U	A	740	155.426	105.721	-65.914	1.00	73.28	A16S
ATOM	15479	P	G	A	741	154.746	106.970	-65.151	1.00	51.20	A16S
ATOM	15480	O1P	G	A	741	153.314	106.622	-64.908	1.00	54.54	A16S
ATOM	15481	O2P	G	A	741	155.086	108.239	-65.864	1.00	54.54	A16S
ATOM	15482	O5*	G	A	741	155.462	106.959	-63.731	1.00	51.20	A16S
ATOM	15483	C5*	G	A	741	155.376	105.792	-62.903	1.00	51.20	A16S
ATOM	15484	C4*	G	A	741	155.990	106.051	-61.557	1.00	51.20	A16S
ATOM	15485	O4*	G	A	741	157.425	106.226	-61.687	1.00	51.20	A16S
ATOM	15486	C1*	G	A	741	157.882	107.146	-60.709	1.00	51.20	A16S
ATOM	15487	N9	G	A	741	158.407	108.334	-61.374	1.00	54.54	A16S
ATOM	15488	C4	G	A	741	159.105	109.354	-60.776	1.00	54.54	A16S
ATOM	15489	N3	G	A	741	159.484	109.400	-59.487	1.00	54.54	A16S
ATOM	15490	C2	G	A	741	160.114	110.527	-59.202	1.00	54.54	A16S
ATOM	15491	N2	G	A	741	160.570	110.730	-57.957	1.00	54.54	A16S
ATOM	15492	N1	G	A	741	160.342	111.532	-60.114	1.00	54.54	A16S
ATOM	15493	C6	G	A	741	159.954	111.495	-61.445	1.00	54.54	A16S
ATOM	15494	O6	G	A	741	160.194	112.448	-62.183	1.00	54.54	A16S
ATOM	15495	C5	G	A	741	159.295	110.294	-61.761	1.00	54.54	A16S
ATOM	15496	N7	G	A	741	158.768	109.858	-62.963	1.00	54.54	A16S
ATOM	15497	C8	G	A	741	158.261	108.687	-62.688	1.00	54.54	A16S
ATOM	15498	C2*	G	A	741	156.670	107.548	-59.872	1.00	51.20	A16S
ATOM	15499	O2*	G	A	741	156.605	106.707	-58.740	1.00	51.20	A16S
ATOM	15500	C3*	G	A	741	155.536	107.313	-60.855	1.00	51.20	A16S
ATOM	15501	O3*	G	A	741	154.276	107.189	-60.227	1.00	51.20	A16S
ATOM	15502	P	G	A	742	153.340	108.490	-60.087	1.00	56.03	A16S
ATOM	15503	O1P	G	A	742	152.047	107.996	-59.547	1.00	46.39	A16S
ATOM	15504	O2P	G	A	742	153.360	109.275	-61.356	1.00	46.39	A16S
ATOM	15505	O5*	G	A	742	154.062	109.353	-58.960	1.00	56.03	A16S
ATOM	15506	C5*	G	A	742	154.303	108.778	-57.676	1.00	56.03	A16S
ATOM	15507	C4*	G	A	742	155.287	109.606	-56.897	1.00	56.03	A16S
ATOM	15508	O4*	G	A	742	156.513	109.748	-57.652	1.00	56.03	A16S
ATOM	15509	C1*	G	A	742	157.096	111.013	-57.385	1.00	56.03	A16S
ATOM	15510	N9	G	A	742	157.114	111.777	-58.625	1.00	46.39	A16S
ATOM	15511	C4	G	A	742	157.730	112.985	-58.836	1.00	46.39	A16S
ATOM	15512	N3	G	A	742	158.440	113.681	-57.928	1.00	46.39	A16S
ATOM	15513	C2	G	A	742	158.889	114.817	-58.420	1.00	46.39	A16S
ATOM	15514	N2	G	A	742	159.605	115.644	-57.645	1.00	46.39	A16S
ATOM	15515	N1	G	A	742	158.662	115.229	-59.703	1.00	46.39	A16S
ATOM	15516	C6	G	A	742	157.931	114.520	-60.655	1.00	46.39	A16S
ATOM	15517	O6	G	A	742	157.769	114.984	-61.797	1.00	46.39	A16S
ATOM	15518	C5	G	A	742	157.451	113.312	-60.141	1.00	46.39	A16S
ATOM	15519	N7	G	A	742	156.691	112.326	-60.747	1.00	46.39	A16S
ATOM	15520	C8	G	A	742	156.513	111.437	-59.811	1.00	46.39	A16S
ATOM	15521	C2*	G	A	742	156.232	111.700	-56.335	1.00	56.03	A16S
ATOM	15522	O2*	G	A	742	156.783	111.407	-55.057	1.00	56.03	A16S
ATOM	15523	C3*	G	A	742	154.882	111.034	-56.582	1.00	56.03	A16S
ATOM	15524	O3*	G	A	742	154.041	111.084	-55.440	1.00	56.03	A16S
ATOM	15525	P	U	A	743	152.951	112.257	-55.308	1.00	72.58	A16S
ATOM	15526	O1P	U	A	743	152.296	112.016	-53.990	1.00	59.88	A16S
ATOM	15527	O2P	U	A	743	152.125	112.329	-56.552	1.00	59.88	A16S
ATOM	15528	O5*	U	A	743	153.817	113.593	-55.240	1.00	72.58	A16S
ATOM	15529	C5*	U	A	743	154.742	113.828	-54.167	1.00	72.58	A16S
ATOM	15530	C4*	U	A	743	155.435	115.144	-54.379	1.00	72.58	A16S
ATOM	15531	O4*	U	A	743	156.235	115.065	-55.581	1.00	72.58	A16S
ATOM	15532	C1*	U	A	743	156.208	116.310	-56.259	1.00	72.58	A16S
ATOM	15533	N1	U	A	743	155.641	116.120	-57.601	1.00	59.88	A16S
ATOM	15534	C6	U	A	743	154.845	115.037	-57.910	1.00	59.88	A16S
ATOM	15535	C2	U	A	743	155.933	117.089	-58.552	1.00	59.88	A16S
ATOM	15536	O2	U	A	743	156.637	118.074	-58.308	1.00	59.88	A16S
ATOM	15537	N3	U	A	743	155.373	116.871	-59.788	1.00	59.88	A16S
ATOM	15538	C4	U	A	743	154.574	115.811	-60.160	1.00	59.88	A16S
ATOM	15539	O4	U	A	743	154.187	115.729	-61.323	1.00	59.88	A16S
ATOM	15540	C5	U	A	743	154.317	114.858	-59.121	1.00	59.88	A16S
ATOM	15541	C2*	U	A	743	155.357	117.271	-55.442	1.00	72.58	A16S
ATOM	15542	O2*	U	A	743	156.203	118.078	-54.660	1.00	72.58	A16S
ATOM	15543	C3*	U	A	743	154.498	116.307	-54.640	1.00	72.58	A16S
ATOM	15544	O3*	U	A	743	154.021	116.883	-53.446	1.00	72.58	A16S
ATOM	15545	P	C	A	744	152.700	117.791	-53.487	1.00	60.20	A16S
ATOM	15546	O1P	C	A	744	152.369	118.051	-52.053	1.00	49.52	A16S
ATOM	15547	O2P	C	A	744	151.695	117.126	-54.379	1.00	49.52	A16S

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ATOM	15548	O5*	C	A	744	153.196	119.155	-54.144	1.00	60.20	A16S
ATOM	15549	C5*	C	A	744	154.130	119.981	-53.442	1.00	60.20	A16S
ATOM	15550	C4*	C	A	744	154.550	121.144	-54.293	1.00	60.20	A16S
ATOM	15551	O4*	C	A	744	155.226	120.660	-55.482	1.00	60.20	A16S
ATOM	15552	C1*	C	A	744	154.976	121.544	-56.564	1.00	60.20	A16S
ATOM	15553	N1	C	A	744	154.241	120.818	-57.612	1.00	49.52	A16S
ATOM	15554	C6	C	A	744	153.548	119.674	-57.322	1.00	49.52	A16S
ATOM	15555	C2	C	A	744	154.247	121.329	-58.917	1.00	49.52	A16S
ATOM	15556	O2	C	A	744	154.887	122.374	-59.154	1.00	49.52	A16S
ATOM	15557	N3	C	A	744	153.557	120.673	-59.881	1.00	49.52	A16S
ATOM	15558	N4	C	A	744	152.888	119.556	-59.582	1.00	49.52	A16S
ATOM	15559	C4	C	A	744	152.239	118.938	-60.556	1.00	49.52	A16S
ATOM	15560	C5	C	A	744	152.863	119.021	-58.269	1.00	49.52	A16S
ATOM	15561	C2*	C	A	744	154.124	122.692	-56.031	1.00	60.20	A16S
ATOM	15562	O2*	C	A	744	154.975	123.770	-55.685	1.00	60.20	A16S
ATOM	15563	C3*	C	A	744	153.444	122.030	-54.838	1.00	60.20	A16S
ATOM	15564	O3*	C	A	744	152.956	122.965	-53.884	1.00	60.20	A16S
ATOM	15565	P	C	A	745	151.413	123.425	-53.947	1.00	60.22	A16S
ATOM	15566	O1P	C	A	745	151.097	124.008	-52.615	1.00	51.03	A16S
ATOM	15567	O2P	C	A	745	150.589	122.296	-54.460	1.00	51.03	A16S
ATOM	15568	O5*	C	A	745	151.413	124.568	-55.058	1.00	60.22	A16S
ATOM	15569	C5*	C	A	745	152.277	125.707	-54.932	1.00	60.22	A16S
ATOM	15570	C4*	C	A	745	152.281	126.509	-56.210	1.00	60.22	A16S
ATOM	15571	O4*	C	A	745	152.853	125.716	-57.276	1.00	60.22	A16S
ATOM	15572	C1*	C	A	745	152.193	126.003	-58.493	1.00	60.22	A16S
ATOM	15573	N1	C	A	745	151.559	124.773	-58.972	1.00	51.03	A16S
ATOM	15574	C6	C	A	745	151.343	123.717	-58.131	1.00	51.03	A16S
ATOM	15575	C2	C	A	745	151.187	124.694	-60.315	1.00	51.03	A16S
ATOM	15576	O2	C	A	745	151.367	125.690	-61.047	1.00	51.03	A16S
ATOM	15577	N3	C	A	745	150.636	123.548	-60.781	1.00	51.03	A16S
ATOM	15578	C4	C	A	745	150.439	122.520	-59.952	1.00	51.03	A16S
ATOM	15579	N4	C	A	745	149.888	121.413	-60.446	1.00	51.03	A16S
ATOM	15580	C5	C	A	745	150.796	122.584	-58.575	1.00	51.03	A16S
ATOM	15581	C2*	C	A	745	151.177	127.105	-58.227	1.00	60.22	A16S
ATOM	15582	O2*	C	A	745	151.785	128.344	-58.540	1.00	60.22	A16S
ATOM	15583	C3*	C	A	745	150.920	126.915	-56.740	1.00	60.22	A16S
ATOM	15584	O3*	C	A	745	150.460	128.094	-56.118	1.00	60.22	A16S
ATOM	15585	P	A	A	746	148.885	128.300	-55.908	1.00	62.70	A16S
ATOM	15586	O1P	A	A	746	148.751	129.396	-54.898	1.00	59.01	A16S
ATOM	15587	O2P	A	A	746	148.248	126.974	-55.656	1.00	59.01	A16S
ATOM	15588	O5*	A	A	746	148.379	128.801	-57.329	1.00	62.70	A16S
ATOM	15589	C5*	A	A	746	148.914	129.992	-57.905	1.00	62.70	A16S
ATOM	15590	C4*	A	A	746	148.422	130.139	-59.310	1.00	62.70	A16S
ATOM	15591	O4*	A	A	746	148.926	129.050	-60.115	1.00	62.70	A16S
ATOM	15592	C1*	A	A	746	147.937	128.639	-61.039	1.00	62.70	A16S
ATOM	15593	N9	A	A	746	147.633	127.231	-60.776	1.00	59.01	A16S
ATOM	15594	C4	A	A	746	147.142	126.314	-61.674	1.00	59.01	A16S
ATOM	15595	N3	A	A	746	146.822	126.521	-62.960	1.00	59.01	A16S
ATOM	15596	C2	A	A	746	146.394	125.394	-63.524	1.00	59.01	A16S
ATOM	15597	N1	A	A	746	146.264	124.179	-62.991	1.00	59.01	A16S
ATOM	15598	C6	A	A	746	146.602	124.008	-61.695	1.00	59.01	A16S
ATOM	15599	N6	A	A	746	146.496	122.792	-61.160	1.00	59.01	A16S
ATOM	15600	C5	A	A	746	147.057	125.121	-60.986	1.00	59.01	A16S
ATOM	15601	N7	A	A	746	147.467	125.280	-59.674	1.00	59.01	A16S
ATOM	15602	C8	A	A	746	147.794	126.547	-59.598	1.00	59.01	A16S
ATOM	15603	C2*	A	A	746	146.741	129.577	-60.874	1.00	62.70	A16S
ATOM	15604	O2*	A	A	746	146.870	130.643	-61.796	1.00	62.70	A16S
ATOM	15605	C3*	A	A	746	146.921	130.045	-59.438	1.00	62.70	A16S
ATOM	15606	O3*	A	A	746	146.340	131.308	-59.181	1.00	62.70	A16S
ATOM	15607	P	C	A	747	144.876	131.386	-58.530	1.00	69.56	A16S
ATOM	15608	O1P	C	A	747	144.580	132.840	-58.393	1.00	80.66	A16S
ATOM	15609	O2P	C	A	747	144.834	130.508	-57.324	1.00	80.66	A16S
ATOM	15610	O5*	C	A	747	143.938	130.774	-59.670	1.00	69.56	A16S
ATOM	15611	C5*	C	A	747	143.912	131.368	-60.987	1.00	69.56	A16S
ATOM	15612	C4*	C	A	747	143.022	130.577	-61.920	1.00	69.56	A16S
ATOM	15613	O4*	C	A	747	143.651	129.332	-62.306	1.00	69.56	A16S
ATOM	15614	C1*	C	A	747	142.660	128.334	-62.503	1.00	69.56	A16S
ATOM	15615	N1	C	A	747	142.969	127.189	-61.624	1.00	80.66	A16S
ATOM	15616	C6	C	A	747	143.440	127.389	-60.355	1.00	80.66	A16S
ATOM	15617	C2	C	A	747	142.771	125.883	-62.105	1.00	80.66	A16S
ATOM	15618	O2	C	A	747	142.352	125.720	-63.260	1.00	80.66	A16S
ATOM	15619	N3	C	A	747	143.041	124.836	-61.298	1.00	80.66	A16S
ATOM	15620	C4	C	A	747	143.488	125.050	-60.057	1.00	80.66	A16S
ATOM	15621	N4	C	A	747	143.720	123.990	-59.283	1.00	80.66	A16S
ATOM	15622	C5	C	A	747	143.710	126.361	-59.549	1.00	80.66	A16S
ATOM	15623	C2*	C	A	747	141.293	128.971	-62.241	1.00	69.56	A16S
ATOM	15624	O2*	C	A	747	140.701	129.312	-63.480	1.00	69.56	A16S

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ATOM	15625	C3*	C	A	747	141.666	130.175	-61.376	1.00	69.56	A16S
ATOM	15626	O3*	C	A	747	140.758	131.253	-61.495	1.00	69.56	A16S
ATOM	15627	P	C	A	748	139.567	131.400	-60.438	1.00	90.28	A16S
ATOM	15628	O1P	C	A	748	139.023	132.763	-60.610	1.00	75.22	A16S
ATOM	15629	O2P	C	A	748	140.039	130.967	-59.102	1.00	75.22	A16S
ATOM	15630	O5*	C	A	748	138.484	130.363	-60.976	1.00	90.28	A16S
ATOM	15631	C5*	C	A	748	137.463	129.849	-60.111	1.00	90.28	A16S
ATOM	15632	C4*	C	A	748	137.559	128.351	-60.041	1.00	90.28	A16S
ATOM	15633	O4*	C	A	748	138.956	128.006	-59.952	1.00	90.28	A16S
ATOM	15634	C1*	C	A	748	139.125	126.922	-59.069	1.00	90.28	A16S
ATOM	15635	N1	C	A	748	140.272	127.198	-58.178	1.00	75.22	A16S
ATOM	15636	C6	C	A	748	140.743	128.471	-58.016	1.00	75.22	A16S
ATOM	15637	C2	C	A	748	140.905	126.127	-57.531	1.00	75.22	A16S
ATOM	15638	O2	C	A	748	140.432	124.983	-57.645	1.00	75.22	A16S
ATOM	15639	N3	C	A	748	142.015	126.367	-56.794	1.00	75.22	A16S
ATOM	15640	C4	C	A	748	142.486	127.609	-56.678	1.00	75.22	A16S
ATOM	15641	N4	C	A	748	143.600	127.791	-55.971	1.00	75.22	A16S
ATOM	15642	C5	C	A	748	141.839	128.717	-57.286	1.00	75.22	A16S
ATOM	15643	C2*	C	A	748	137.770	126.532	-58.471	1.00	90.28	A16S
ATOM	15644	O2*	C	A	748	137.380	125.307	-59.051	1.00	90.28	A16S
ATOM	15645	C3*	C	A	748	136.905	127.750	-58.810	1.00	90.28	A16S
ATOM	15646	O3*	C	A	748	135.470	127.611	-58.980	1.00	90.28	A16S
ATOM	15647	P	C	A	749	134.811	126.369	-59.804	1.00	60.14	A16S
ATOM	15648	O1P	C	A	749	133.411	126.800	-60.047	1.00	73.07	A16S
ATOM	15649	O2P	C	A	749	135.048	125.059	-59.119	1.00	73.07	A16S
ATOM	15650	O5*	C	A	749	135.523	126.371	-61.232	1.00	60.14	A16S
ATOM	15651	C5*	C	A	749	134.739	126.440	-62.436	1.00	60.14	A16S
ATOM	15652	C4*	C	A	749	134.810	125.135	-63.194	1.00	60.14	A16S
ATOM	15653	O4*	C	A	749	136.165	124.936	-63.665	1.00	60.14	A16S
ATOM	15654	C1*	C	A	749	136.485	123.554	-63.653	1.00	60.14	A16S
ATOM	15655	N1	C	A	749	137.663	123.353	-62.767	1.00	73.07	A16S
ATOM	15656	C6	C	A	749	138.195	124.406	-62.073	1.00	73.07	A16S
ATOM	15657	C2	C	A	749	138.221	122.061	-62.624	1.00	73.07	A16S
ATOM	15658	O2	C	A	749	137.774	121.121	-63.300	1.00	73.07	A16S
ATOM	15659	N3	C	A	749	139.237	121.881	-61.754	1.00	73.07	A16S
ATOM	15660	C4	C	A	749	139.717	122.915	-61.061	1.00	73.07	A16S
ATOM	15661	N4	C	A	749	140.699	122.684	-60.192	1.00	73.07	A16S
ATOM	15662	C5	C	A	749	139.209	124.232	-61.220	1.00	73.07	A16S
ATOM	15663	C2*	C	A	749	135.224	122.797	-63.207	1.00	60.14	A16S
ATOM	15664	O2*	C	A	749	134.517	122.329	-64.340	1.00	60.14	A16S
ATOM	15665	C3*	C	A	749	134.460	123.867	-62.431	1.00	60.14	A16S
ATOM	15666	O3*	C	A	749	133.052	123.616	-62.453	1.00	60.14	A16S
ATOM	15667	P	G	A	750	132.387	122.592	-61.389	1.00	59.71	A16S
ATOM	15668	O1P	G	A	750	130.911	122.598	-61.604	1.00	57.08	A16S
ATOM	15669	O2P	G	A	750	132.934	122.892	-60.029	1.00	57.08	A16S
ATOM	15670	O5*	G	A	750	132.899	121.151	-61.833	1.00	59.71	A16S
ATOM	15671	C5*	G	A	750	132.278	120.448	-62.911	1.00	59.71	A16S
ATOM	15672	C4*	G	A	750	132.758	119.021	-62.934	1.00	59.71	A16S
ATOM	15673	O4*	G	A	750	134.211	119.040	-62.869	1.00	59.71	A16S
ATOM	15674	C1*	G	A	750	134.677	117.945	-62.092	1.00	59.71	A16S
ATOM	15675	N9	G	A	750	135.434	118.468	-60.948	1.00	57.08	A16S
ATOM	15676	C4	G	A	750	135.997	117.737	-59.912	1.00	57.08	A16S
ATOM	15677	N3	G	A	750	135.947	116.398	-59.761	1.00	57.08	A16S
ATOM	15678	C2	G	A	750	136.583	115.997	-58.670	1.00	57.08	A16S
ATOM	15679	N2	G	A	750	136.633	114.697	-58.371	1.00	57.08	A16S
ATOM	15680	N1	G	A	750	137.215	116.838	-57.794	1.00	57.08	A16S
ATOM	15681	C6	G	A	750	137.281	118.213	-57.924	1.00	57.08	A16S
ATOM	15682	O6	G	A	750	137.875	118.873	-57.075	1.00	57.08	A16S
ATOM	15683	C5	G	A	750	136.604	118.666	-59.096	1.00	57.08	A16S
ATOM	15684	N7	G	A	750	136.432	119.950	-59.598	1.00	57.08	A16S
ATOM	15685	C8	G	A	750	135.734	119.785	-60.690	1.00	57.08	A16S
ATOM	15686	C2*	G	A	750	133.455	117.106	-61.709	1.00	59.71	A16S
ATOM	15687	O2*	G	A	750	133.270	116.077	-62.667	1.00	59.71	A16S
ATOM	15688	C3*	G	A	750	132.338	118.144	-61.759	1.00	59.71	A16S
ATOM	15689	O3*	G	A	750	131.055	117.532	-61.933	1.00	59.71	A16S
ATOM	15690	P	U	A	751	130.182	117.128	-60.635	1.00	71.17	A16S
ATOM	15691	O1P	U	A	751	128.864	116.575	-61.086	1.00	52.71	A16S
ATOM	15692	O2P	U	A	751	130.213	118.304	-59.709	1.00	52.71	A16S
ATOM	15693	O5*	U	A	751	130.983	115.922	-59.959	1.00	71.17	A16S
ATOM	15694	C5*	U	A	751	130.909	114.585	-60.502	1.00	71.17	A16S
ATOM	15695	C4*	U	A	751	131.580	113.584	-59.577	1.00	71.17	A16S
ATOM	15696	O4*	U	A	751	132.973	113.939	-59.389	1.00	71.17	A16S
ATOM	15697	C1*	U	A	751	133.385	113.567	-58.085	1.00	71.17	A16S
ATOM	15698	N1	U	A	751	133.809	114.780	-57.370	1.00	52.71	A16S
ATOM	15699	C6	U	A	751	133.472	116.026	-57.820	1.00	52.71	A16S
ATOM	15700	C2	U	A	751	134.578	114.625	-56.224	1.00	52.71	A16S
ATOM	15701	O2	U	A	751	134.871	113.533	-55.754	1.00	52.71	A16S

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ATOM	15702	N3	U	A	751	134.989	115.794	-55.638	1.00	52.71	A16S
ATOM	15703	C4	U	A	751	134.709	117.067	-56.056	1.00	52.71	A16S
ATOM	15704	O4	U	A	751	135.260	118.010	-55.500	1.00	52.71	A16S
ATOM	15705	C5	U	A	751	133.881	117.145	-57.217	1.00	52.71	A16S
ATOM	15706	C2*	U	A	751	132.211	112.868	-57.403	1.00	71.17	A16S
ATOM	15707	O2*	U	A	751	132.296	111.462	-57.582	1.00	71.17	A16S
ATOM	15708	C3*	U	A	751	131.034	113.451	-58.161	1.00	71.17	A16S
ATOM	15709	O3*	U	A	751	129.964	112.539	-58.089	1.00	71.17	A16S
ATOM	15710	P	G	A	752	128.722	112.862	-57.132	1.00	51.67	A16S
ATOM	15711	O1P	G	A	752	127.818	111.674	-57.215	1.00	62.26	A16S
ATOM	15712	O2P	G	A	752	128.220	114.210	-57.518	1.00	62.26	A16S
ATOM	15713	O5*	G	A	752	129.336	112.977	-55.663	1.00	51.67	A16S
ATOM	15714	C5*	G	A	752	129.930	111.842	-55.012	1.00	51.67	A16S
ATOM	15715	C4*	G	A	752	130.594	112.277	-53.732	1.00	51.67	A16S
ATOM	15716	O4*	G	A	752	131.365	113.476	-54.009	1.00	51.67	A16S
ATOM	15717	C1*	G	A	752	130.978	114.506	-53.135	1.00	51.67	A16S
ATOM	15718	N9	G	A	752	131.045	115.763	-53.858	1.00	62.26	A16S
ATOM	15719	C4	G	A	752	131.889	116.808	-53.595	1.00	62.26	A16S
ATOM	15720	N3	G	A	752	132.830	116.845	-52.632	1.00	62.26	A16S
ATOM	15721	C2	G	A	752	133.473	118.004	-52.612	1.00	62.26	A16S
ATOM	15722	N2	G	A	752	134.463	118.217	-51.726	1.00	62.26	A16S
ATOM	15723	N1	G	A	752	133.198	119.040	-53.460	1.00	62.26	A16S
ATOM	15724	C6	G	A	752	132.233	119.020	-54.459	1.00	62.26	A16S
ATOM	15725	O6	G	A	752	132.060	120.017	-55.169	1.00	62.26	A16S
ATOM	15726	C5	G	A	752	131.553	117.782	-54.501	1.00	62.26	A16S
ATOM	15727	N7	G	A	752	130.539	117.347	-55.338	1.00	62.26	A16S
ATOM	15728	C8	G	A	752	130.273	116.143	-54.921	1.00	62.26	A16S
ATOM	15729	C2*	G	A	752	129.575	114.149	-52.664	1.00	51.67	A16S
ATOM	15730	O2*	G	A	752	129.290	114.780	-51.432	1.00	51.67	A16S
ATOM	15731	C3*	G	A	752	129.669	112.632	-52.574	1.00	51.67	A16S
ATOM	15732	O3*	G	A	752	130.371	112.321	-51.378	1.00	51.67	A16S
ATOM	15733	P	A	A	753	129.717	111.361	-50.275	1.00	49.70	A16S
ATOM	15734	O1P	A	A	753	129.413	110.061	-50.933	1.00	53.32	A16S
ATOM	15735	O2P	A	A	753	128.653	112.098	-49.549	1.00	53.32	A16S
ATOM	15736	O5*	A	A	753	130.920	111.109	-49.266	1.00	49.70	A16S
ATOM	15737	C5*	A	A	753	132.005	110.241	-49.637	1.00	49.70	A16S
ATOM	15738	C4*	A	A	753	133.041	110.220	-48.551	1.00	49.70	A16S
ATOM	15739	O4*	A	A	753	133.735	111.494	-48.530	1.00	49.70	A16S
ATOM	15740	C1*	A	A	753	133.708	112.014	-47.221	1.00	49.70	A16S
ATOM	15741	N9	A	A	753	133.718	113.478	-47.279	1.00	53.32	A16S
ATOM	15742	C4	A	A	753	134.435	114.286	-46.433	1.00	53.32	A16S
ATOM	15743	N3	A	A	753	135.238	113.898	-45.434	1.00	53.32	A16S
ATOM	15744	C2	A	A	753	135.775	114.957	-44.831	1.00	53.32	A16S
ATOM	15745	N1	A	A	753	135.606	116.261	-45.088	1.00	53.32	A16S
ATOM	15746	C6	A	A	753	134.786	116.614	-46.093	1.00	53.32	A16S
ATOM	15747	N6	A	A	753	134.611	117.911	-46.329	1.00	53.32	A16S
ATOM	15748	C5	A	A	753	134.164	115.583	-46.822	1.00	53.32	A16S
ATOM	15749	N7	A	A	753	133.296	115.595	-47.901	1.00	53.32	A16S
ATOM	15750	C8	A	A	753	133.060	114.324	-48.132	1.00	53.32	A16S
ATOM	15751	C2*	A	A	753	132.491	111.391	-46.543	1.00	49.70	A16S
ATOM	15752	O2*	A	A	753	132.684	111.377	-45.147	1.00	49.70	A16S
ATOM	15753	C3*	A	A	753	132.488	109.990	-47.146	1.00	49.70	A16S
ATOM	15754	O3*	A	A	753	133.367	109.147	-46.411	1.00	49.70	A16S
ATOM	15755	P	C	A	754	133.267	107.545	-46.580	1.00	53.45	A16S
ATOM	15756	O1P	C	A	754	131.828	107.137	-46.638	1.00	51.04	A16S
ATOM	15757	O2P	C	A	754	134.172	106.928	-45.560	1.00	51.04	A16S
ATOM	15758	O5*	C	A	754	133.916	107.271	-48.010	1.00	53.45	A16S
ATOM	15759	C5*	C	A	754	135.290	107.598	-48.240	1.00	53.45	A16S
ATOM	15760	C4*	C	A	754	135.666	107.305	-49.659	1.00	53.45	A16S
ATOM	15761	O4*	C	A	754	134.792	108.036	-50.547	1.00	53.45	A16S
ATOM	15762	C1*	C	A	754	135.512	108.411	-51.703	1.00	53.45	A16S
ATOM	15763	N1	C	A	754	135.254	109.837	-51.962	1.00	51.04	A16S
ATOM	15764	C6	C	A	754	134.661	110.224	-53.128	1.00	51.04	A16S
ATOM	15765	C2	C	A	754	135.613	110.799	-50.996	1.00	51.04	A16S
ATOM	15766	O2	C	A	754	136.142	110.423	-49.936	1.00	51.04	A16S
ATOM	15767	N3	C	A	754	135.369	112.109	-51.246	1.00	51.04	A16S
ATOM	15768	C4	C	A	754	134.789	112.470	-52.393	1.00	51.04	A16S
ATOM	15769	N4	C	A	754	134.574	113.764	-52.605	1.00	51.04	A16S
ATOM	15770	C5	C	A	754	134.408	111.515	-53.381	1.00	51.04	A16S
ATOM	15771	C2*	C	A	754	136.978	107.979	-51.535	1.00	53.45	A16S
ATOM	15772	O2*	C	A	754	137.239	106.799	-52.272	1.00	53.45	A16S
ATOM	15773	C3*	C	A	754	137.076	107.734	-50.031	1.00	53.45	A16S
ATOM	15774	O3*	C	A	754	137.978	106.671	-49.718	1.00	53.45	A16S
ATOM	15775	P	G	A	755	139.557	106.964	-49.571	1.00	44.87	A16S
ATOM	15776	O1P	G	A	755	140.037	107.567	-50.852	1.00	49.96	A16S
ATOM	15777	O2P	G	A	755	140.199	105.715	-49.066	1.00	49.96	A16S
ATOM	15778	O5*	G	A	755	139.656	108.066	-48.422	1.00	44.87	A16S

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ATOM	15779	C5*	G	A	755	140.101	109.392	-48.727	1.00	44.87	A16S
ATOM	15780	C4*	G	A	755	140.252	110.191	-47.465	1.00	44.87	A16S
ATOM	15781	O4*	G	A	755	138.992	110.157	-46.758	1.00	44.87	A16S
ATOM	15782	C1*	G	A	755	139.219	110.034	-45.369	1.00	44.87	A16S
ATOM	15783	N9	G	A	755	138.768	108.704	-44.960	1.00	49.96	A16S
ATOM	15784	C4	G	A	755	138.877	108.164	-43.701	1.00	49.96	A16S
ATOM	15785	N3	G	A	755	139.396	108.780	-42.624	1.00	49.96	A16S
ATOM	15786	C2	G	A	755	139.402	107.997	-41.568	1.00	49.96	A16S
ATOM	15787	N2	G	A	755	139.902	108.454	-40.412	1.00	49.96	A16S
ATOM	15788	N1	G	A	755	138.926	106.713	-41.564	1.00	49.96	A16S
ATOM	15789	C6	G	A	755	138.380	106.063	-42.660	1.00	49.96	A16S
ATOM	15790	O6	G	A	755	137.978	104.904	-42.549	1.00	49.96	A16S
ATOM	15791	C5	G	A	755	138.372	106.888	-43.803	1.00	49.96	A16S
ATOM	15792	N7	G	A	755	137.926	106.634	-45.095	1.00	49.96	A16S
ATOM	15793	C8	G	A	755	138.178	107.737	-45.746	1.00	49.96	A16S
ATOM	15794	C2*	G	A	755	140.719	110.192	-45.157	1.00	44.87	A16S
ATOM	15795	O2*	G	A	755	140.985	111.564	-45.001	1.00	44.87	A16S
ATOM	15796	C3*	G	A	755	141.251	109.651	-46.468	1.00	44.87	A16S
ATOM	15797	O3*	G	A	755	142.559	110.081	-46.757	1.00	44.87	A16S
ATOM	15798	P	C	A	756	143.765	109.022	-46.670	1.00	35.85	A16S
ATOM	15799	O1P	C	A	756	144.907	109.580	-47.439	1.00	44.71	A16S
ATOM	15800	O2P	C	A	756	143.237	107.664	-47.025	1.00	44.71	A16S
ATOM	15801	O5*	C	A	756	144.128	109.009	-45.119	1.00	35.85	A16S
ATOM	15802	C5*	C	A	756	144.606	110.187	-44.470	1.00	35.85	A16S
ATOM	15803	C4*	C	A	756	144.720	109.947	-42.991	1.00	35.85	A16S
ATOM	15804	O4*	C	A	756	143.414	109.572	-42.496	1.00	35.85	A16S
ATOM	15805	C1*	C	A	756	143.554	108.664	-41.404	1.00	35.85	A16S
ATOM	15806	N1	C	A	756	142.873	107.395	-41.727	1.00	44.71	A16S
ATOM	15807	C6	C	A	756	142.394	107.143	-42.984	1.00	44.71	A16S
ATOM	15808	C2	C	A	756	142.735	106.440	-40.715	1.00	44.71	A16S
ATOM	15809	O2	C	A	756	143.149	106.709	-39.571	1.00	44.71	A16S
ATOM	15810	N3	C	A	756	142.155	105.256	-41.002	1.00	44.71	A16S
ATOM	15811	C4	C	A	756	141.708	105.012	-42.239	1.00	44.71	A16S
ATOM	15812	N4	C	A	756	141.163	103.808	-42.486	1.00	44.71	A16S
ATOM	15813	C5	C	A	756	141.808	105.980	-43.281	1.00	44.71	A16S
ATOM	15814	C2*	C	A	756	145.046	108.452	-41.173	1.00	35.85	A16S
ATOM	15815	O2*	C	A	756	145.492	109.338	-40.161	1.00	35.85	A16S
ATOM	15816	C3*	C	A	756	145.603	108.789	-42.546	1.00	35.85	A16S
ATOM	15817	O3*	C	A	756	146.973	109.109	-42.490	1.00	35.85	A16S
ATOM	15818	P	U	A	757	148.047	108.020	-42.980	1.00	34.80	A16S
ATOM	15819	O1P	U	A	757	149.336	108.746	-43.124	1.00	40.68	A16S
ATOM	15820	O2P	U	A	757	147.467	107.301	-44.155	1.00	40.68	A16S
ATOM	15821	O5*	U	A	757	148.134	106.986	-41.770	1.00	34.80	A16S
ATOM	15822	C5*	U	A	757	148.447	107.421	-40.433	1.00	34.80	A16S
ATOM	15823	C4*	U	A	757	148.122	106.325	-39.447	1.00	34.80	A16S
ATOM	15824	O4*	U	A	757	146.698	106.061	-39.491	1.00	34.80	A16S
ATOM	15825	C1*	U	A	757	146.453	104.683	-39.264	1.00	34.80	A16S
ATOM	15826	N1	U	A	757	145.738	104.126	-40.418	1.00	40.68	A16S
ATOM	15827	C6	U	A	757	145.841	104.669	-41.673	1.00	40.68	A16S
ATOM	15828	C2	U	A	757	144.945	103.026	-40.187	1.00	40.68	A16S
ATOM	15829	O2	U	A	757	144.826	102.520	-39.090	1.00	40.68	A16S
ATOM	15830	N3	U	A	757	144.286	102.539	-41.284	1.00	40.68	A16S
ATOM	15831	C4	U	A	757	144.330	103.036	-42.563	1.00	40.68	A16S
ATOM	15832	O4	U	A	757	143.599	102.542	-43.423	1.00	40.68	A16S
ATOM	15833	C5	U	A	757	145.180	104.177	-42.727	1.00	40.68	A16S
ATOM	15834	C2*	U	A	757	147.789	103.997	-39.036	1.00	34.80	A16S
ATOM	15835	O2*	U	A	757	147.990	103.867	-37.643	1.00	34.80	A16S
ATOM	15836	C3*	U	A	757	148.746	104.964	-39.723	1.00	34.80	A16S
ATOM	15837	O3*	U	A	757	150.083	104.851	-39.242	1.00	34.80	A16S
ATOM	15838	P	G	A	758	151.142	103.962	-40.069	1.00	31.61	A16S
ATOM	15839	O1P	G	A	758	152.457	104.027	-39.324	1.00	47.13	A16S
ATOM	15840	O2P	G	A	758	151.073	104.352	-41.518	1.00	47.13	A16S
ATOM	15841	O5*	G	A	758	150.547	102.485	-39.973	1.00	31.61	A16S
ATOM	15842	C5*	G	A	758	150.361	101.868	-38.691	1.00	31.61	A16S
ATOM	15843	C4*	G	A	758	149.432	100.703	-38.814	1.00	31.61	A16S
ATOM	15844	O4*	G	A	758	148.216	101.144	-39.448	1.00	31.61	A16S
ATOM	15845	C1*	G	A	758	147.676	100.094	-40.214	1.00	31.61	A16S
ATOM	15846	N9	G	A	758	147.545	100.544	-41.591	1.00	47.13	A16S
ATOM	15847	C4	G	A	758	146.612	100.108	-42.495	1.00	47.13	A16S
ATOM	15848	N3	G	A	758	145.675	99.169	-42.270	1.00	47.13	A16S
ATOM	15849	C2	G	A	758	144.934	98.954	-43.337	1.00	47.13	A16S
ATOM	15850	N2	G	A	758	143.962	98.041	-43.301	1.00	47.13	A16S
ATOM	15851	N1	G	A	758	145.095	99.615	-44.524	1.00	47.13	A16S
ATOM	15852	C6	G	A	758	146.056	100.586	-44.776	1.00	47.13	A16S
ATOM	15853	O6	G	A	758	146.120	101.118	-45.890	1.00	47.13	A16S
ATOM	15854	C5	G	A	758	146.861	100.819	-43.648	1.00	47.13	A16S
ATOM	15855	N7	G	A	758	147.943	101.673	-43.479	1.00	47.13	A16S

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ATOM	15856	C8	G	A	758	148.316	101.478	-42.242	1.00	47.13	A16S
ATOM	15857	C2*	G	A	758	148.608	98.897	-40.086	1.00	31.61	A16S
ATOM	15858	O2*	G	A	758	148.075	98.079	-39.067	1.00	31.61	A16S
ATOM	15859	C3*	G	A	758	149.914	99.561	-39.677	1.00	31.61	A16S
ATOM	15860	O3*	G	A	758	150.709	98.710	-38.873	1.00	31.61	A16S
ATOM	15861	P	A	A	759	151.373	97.380	-39.502	1.00	41.25	A16S
ATOM	15862	O1P	A	A	759	152.846	97.571	-39.315	1.00	40.88	A16S
ATOM	15863	O2P	A	A	759	150.835	97.088	-40.854	1.00	40.88	A16S
ATOM	15864	O5*	A	A	759	150.870	96.227	-38.525	1.00	41.25	A16S
ATOM	15865	C5*	A	A	759	150.995	96.400	-37.106	1.00	41.25	A16S
ATOM	15866	C4*	A	A	759	150.591	95.150	-36.381	1.00	41.25	A16S
ATOM	15867	O4*	A	A	759	149.149	95.018	-36.367	1.00	41.25	A16S
ATOM	15868	C1*	A	A	759	148.809	93.645	-36.337	1.00	41.25	A16S
ATOM	15869	N9	A	A	759	148.005	93.324	-37.516	1.00	40.88	A16S
ATOM	15870	C4	A	A	759	147.195	92.220	-37.622	1.00	40.88	A16S
ATOM	15871	N3	A	A	759	146.976	91.281	-36.685	1.00	40.88	A16S
ATOM	15872	C2	A	A	759	146.138	90.357	-37.139	1.00	40.88	A16S
ATOM	15873	N1	A	A	759	145.541	90.268	-38.329	1.00	40.88	A16S
ATOM	15874	C6	A	A	759	145.783	91.228	-39.245	1.00	40.88	A16S
ATOM	15875	N6	A	A	759	145.187	91.137	-40.427	1.00	40.88	A16S
ATOM	15876	C5	A	A	759	146.651	92.268	-38.891	1.00	40.88	A16S
ATOM	15877	N7	A	A	759	147.095	93.392	-39.575	1.00	40.88	A16S
ATOM	15878	C8	A	A	759	147.894	93.987	-38.717	1.00	40.88	A16S
ATOM	15879	C2*	A	A	759	150.113	92.846	-36.340	1.00	41.25	A16S
ATOM	15880	O2*	A	A	759	150.502	92.563	-35.012	1.00	41.25	A16S
ATOM	15881	C3*	A	A	759	151.080	93.834	-36.962	1.00	41.25	A16S
ATOM	15882	O3*	A	A	759	152.421	93.517	-36.616	1.00	41.25	A16S
ATOM	15883	P	G	A	760	153.451	93.105	-37.778	1.00	51.95	A16S
ATOM	15884	O1P	G	A	760	154.618	92.507	-37.085	1.00	54.54	A16S
ATOM	15885	O2P	G	A	760	153.646	94.254	-38.702	1.00	54.54	A16S
ATOM	15886	O5*	G	A	760	152.681	91.986	-38.607	1.00	51.95	A16S
ATOM	15887	C5*	G	A	760	152.542	90.672	-38.079	1.00	51.95	A16S
ATOM	15888	C4*	G	A	760	151.715	89.787	-38.996	1.00	51.95	A16S
ATOM	15889	O4*	G	A	760	150.376	90.328	-39.177	1.00	51.95	A16S
ATOM	15890	C1*	G	A	760	149.801	89.750	-40.342	1.00	51.95	A16S
ATOM	15891	N9	G	A	760	149.443	90.795	-41.286	1.00	54.54	A16S
ATOM	15892	C4	G	A	760	148.577	90.647	-42.322	1.00	54.54	A16S
ATOM	15893	N3	G	A	760	147.856	89.545	-42.584	1.00	54.54	A16S
ATOM	15894	C2	G	A	760	147.125	89.684	-43.664	1.00	54.54	A16S
ATOM	15895	N2	G	A	760	146.322	88.684	-44.054	1.00	54.54	A16S
ATOM	15896	N1	G	A	760	147.122	90.816	-44.436	1.00	54.54	A16S
ATOM	15897	C6	G	A	760	147.870	91.960	-44.176	1.00	54.54	A16S
ATOM	15898	O6	G	A	760	147.806	92.927	-44.932	1.00	54.54	A16S
ATOM	15899	C5	G	A	760	148.633	91.824	-43.018	1.00	54.54	A16S
ATOM	15900	N7	G	A	760	149.490	92.719	-42.405	1.00	54.54	A16S
ATOM	15901	C8	G	A	760	149.940	92.068	-41.371	1.00	54.54	A16S
ATOM	15902	C2*	G	A	760	150.885	88.920	-41.025	1.00	51.95	A16S
ATOM	15903	O2*	G	A	760	150.733	87.539	-40.741	1.00	51.95	A16S
ATOM	15904	C3*	G	A	760	152.152	89.517	-40.430	1.00	51.95	A16S
ATOM	15905	O3*	G	A	760	153.186	88.572	-40.593	1.00	51.95	A16S
ATOM	15906	P	G	A	761	154.023	88.567	-41.964	1.00	50.73	A16S
ATOM	15907	O1P	G	A	761	154.629	87.208	-42.101	1.00	59.33	A16S
ATOM	15908	O2P	G	A	761	154.898	89.776	-41.956	1.00	59.33	A16S
ATOM	15909	O5*	G	A	761	152.943	88.747	-43.119	1.00	50.73	A16S
ATOM	15910	C5*	G	A	761	152.245	87.626	-43.660	1.00	50.73	A16S
ATOM	15911	C4*	G	A	761	151.653	87.988	-44.995	1.00	50.73	A16S
ATOM	15912	O4*	G	A	761	150.842	89.183	-44.843	1.00	50.73	A16S
ATOM	15913	C1*	G	A	761	150.935	89.990	-46.010	1.00	50.73	A16S
ATOM	15914	N9	G	A	761	151.466	91.294	-45.625	1.00	59.33	A16S
ATOM	15915	C4	G	A	761	151.489	92.438	-46.384	1.00	59.33	A16S
ATOM	15916	N3	G	A	761	151.014	92.568	-47.637	1.00	59.33	A16S
ATOM	15917	C2	G	A	761	151.210	93.785	-48.115	1.00	59.33	A16S
ATOM	15918	N2	G	A	761	150.807	94.084	-49.359	1.00	59.33	A16S
ATOM	15919	N1	G	A	761	151.819	94.795	-47.410	1.00	59.33	A16S
ATOM	15920	C6	G	A	761	152.314	94.680	-46.115	1.00	59.33	A16S
ATOM	15921	O6	G	A	761	152.858	95.654	-45.560	1.00	59.33	A16S
ATOM	15922	C5	G	A	761	152.112	93.382	-45.601	1.00	59.33	A16S
ATOM	15923	N7	G	A	761	152.461	92.849	-44.375	1.00	59.33	A16S
ATOM	15924	C8	G	A	761	152.056	91.613	-44.432	1.00	59.33	A16S
ATOM	15925	C2*	G	A	761	151.838	89.260	-47.005	1.00	50.73	A16S
ATOM	15926	O2*	G	A	761	151.048	88.572	-47.953	1.00	50.73	A16S
ATOM	15927	C3*	G	A	761	152.644	88.345	-46.087	1.00	50.73	A16S
ATOM	15928	O3*	G	A	761	153.123	87.197	-46.773	1.00	50.73	A16S
ATOM	15929	P	C	A	762	154.612	87.211	-47.386	1.00	48.62	A16S
ATOM	15930	O1P	C	A	762	154.867	85.879	-48.039	1.00	48.92	A16S
ATOM	15931	O2P	C	A	762	155.518	87.681	-46.283	1.00	48.92	A16S
ATOM	15932	O5*	C	A	762	154.549	88.309	-48.545	1.00	48.62	A16S

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ATOM	15933	C5*	C	A	762	153.891	88.016	-49.788	1.00	48.62	A16S
ATOM	15934	C4*	C	A	762	153.844	89.243	-50.654	1.00	48.62	A16S
ATOM	15935	O4*	C	A	762	153.122	90.273	-49.945	1.00	48.62	A16S
ATOM	15936	C1*	C	A	762	153.698	91.537	-50.208	1.00	48.62	A16S
ATOM	15937	N1	C	A	762	154.224	92.085	-48.945	1.00	48.92	A16S
ATOM	15938	C6	C	A	762	154.421	91.283	-47.851	1.00	48.92	A16S
ATOM	15939	C2	C	A	762	154.539	93.458	-48.884	1.00	48.92	A16S
ATOM	15940	O2	C	A	762	154.334	94.175	-49.889	1.00	48.92	A16S
ATOM	15941	N3	C	A	762	155.060	93.965	-47.737	1.00	48.92	A16S
ATOM	15942	C4	C	A	762	155.256	93.168	-46.683	1.00	48.92	A16S
ATOM	15943	N4	C	A	762	155.782	93.711	-45.587	1.00	48.92	A16S
ATOM	15944	C5	C	A	762	154.926	91.778	-46.711	1.00	48.92	A16S
ATOM	15945	C2*	C	A	762	154.820	91.327	-51.216	1.00	48.62	A16S
ATOM	15946	O2*	C	A	762	154.335	91.539	-52.521	1.00	48.62	A16S
ATOM	15947	C3*	C	A	762	155.184	89.881	-50.948	1.00	48.62	A16S
ATOM	15948	O3*	C	A	762	155.869	89.289	-52.028	1.00	48.62	A16S
ATOM	15949	P	G	A	763	157.476	89.215	-51.978	1.00	53.27	A16S
ATOM	15950	O1P	G	A	763	157.916	88.323	-53.093	1.00	41.29	A16S
ATOM	15951	O2P	G	A	763	157.885	88.898	-50.581	1.00	41.29	A16S
ATOM	15952	O5*	G	A	763	157.932	90.711	-52.291	1.00	53.27	A16S
ATOM	15953	C5*	G	A	763	157.617	91.290	-53.556	1.00	53.27	A16S
ATOM	15954	C4*	G	A	763	157.776	92.780	-53.514	1.00	53.27	A16S
ATOM	15955	O4*	G	A	763	156.962	93.339	-52.456	1.00	53.27	A16S
ATOM	15956	C1*	G	A	763	157.556	94.540	-51.993	1.00	53.27	A16S
ATOM	15957	N9	G	A	763	157.832	94.422	-50.564	1.00	41.29	A16S
ATOM	15958	C4	G	A	763	158.346	95.410	-49.760	1.00	41.29	A16S
ATOM	15959	N3	G	A	763	158.695	96.648	-50.159	1.00	41.29	A16S
ATOM	15960	C2	G	A	763	159.156	97.381	-49.160	1.00	41.29	A16S
ATOM	15961	N2	G	A	763	159.541	98.648	-49.386	1.00	41.29	A16S
ATOM	15962	N1	G	A	763	159.272	96.930	-47.865	1.00	41.29	A16S
ATOM	15963	C6	G	A	763	158.917	95.655	-47.428	1.00	41.29	A16S
ATOM	15964	O6	G	A	763	159.052	95.348	-46.227	1.00	41.29	A16S
ATOM	15965	C5	G	A	763	158.418	94.859	-48.502	1.00	41.29	A16S
ATOM	15966	N7	G	A	763	157.967	93.546	-48.514	1.00	41.29	A16S
ATOM	15967	C8	G	A	763	157.636	93.330	-49.758	1.00	41.29	A16S
ATOM	15968	C2*	G	A	763	158.841	94.745	-52.786	1.00	53.27	A16S
ATOM	15969	O2*	G	A	763	158.573	95.594	-53.888	1.00	53.27	A16S
ATOM	15970	C3*	G	A	763	159.153	93.321	-53.208	1.00	53.27	A16S
ATOM	15971	O3*	G	A	763	160.010	93.286	-54.319	1.00	53.27	A16S
ATOM	15972	P	C	A	764	161.587	93.084	-54.080	1.00	47.21	A16S
ATOM	15973	O1P	C	A	764	162.199	92.860	-55.436	1.00	43.70	A16S
ATOM	15974	O2P	C	A	764	161.761	92.050	-53.003	1.00	43.70	A16S
ATOM	15975	O5*	C	A	764	162.080	94.507	-53.552	1.00	47.21	A16S
ATOM	15976	C5*	C	A	764	162.066	95.637	-54.434	1.00	47.21	A16S
ATOM	15977	C4*	C	A	764	162.396	96.896	-53.684	1.00	47.21	A16S
ATOM	15978	O4*	C	A	764	161.458	97.069	-52.597	1.00	47.21	A16S
ATOM	15979	C1*	C	A	764	162.116	97.648	-51.491	1.00	47.21	A16S
ATOM	15980	N1	C	A	764	162.080	96.684	-50.387	1.00	43.70	A16S
ATOM	15981	C6	C	A	764	161.741	95.379	-50.604	1.00	43.70	A16S
ATOM	15982	C2	C	A	764	162.395	97.122	-49.105	1.00	43.70	A16S
ATOM	15983	O2	C	A	764	162.696	98.307	-48.945	1.00	43.70	A16S
ATOM	15984	N3	C	A	764	162.361	96.243	-48.072	1.00	43.70	A16S
ATOM	15985	C4	C	A	764	162.019	94.971	-48.292	1.00	43.70	A16S
ATOM	15986	N4	C	A	764	161.979	94.137	-47.252	1.00	43.70	A16S
ATOM	15987	C5	C	A	764	161.696	94.497	-49.594	1.00	43.70	A16S
ATOM	15988	C2*	C	A	764	163.547	97.948	-51.917	1.00	47.21	A16S
ATOM	15989	O2*	C	A	764	163.623	99.250	-52.459	1.00	47.21	A16S
ATOM	15990	C3*	C	A	764	163.749	96.922	-53.010	1.00	47.21	A16S
ATOM	15991	O3*	C	A	764	164.769	97.325	-53.888	1.00	47.21	A16S
ATOM	15992	P	G	A	765	166.190	96.597	-53.800	1.00	40.58	A16S
ATOM	15993	O1P	G	A	765	167.067	97.235	-54.820	1.00	37.98	A16S
ATOM	15994	O2P	G	A	765	165.934	95.132	-53.853	1.00	37.98	A16S
ATOM	15995	O5*	G	A	765	166.748	96.981	-52.354	1.00	40.58	A16S
ATOM	15996	C5*	G	A	765	167.127	98.335	-52.048	1.00	40.58	A16S
ATOM	15997	C4*	G	A	765	167.319	98.505	-50.564	1.00	40.58	A16S
ATOM	15998	O4*	G	A	765	166.098	98.136	-49.880	1.00	40.58	A16S
ATOM	15999	C1*	G	A	765	166.403	97.532	-48.632	1.00	40.58	A16S
ATOM	16000	N9	G	A	765	165.909	96.159	-48.660	1.00	37.98	A16S
ATOM	16001	C4	G	A	765	165.790	95.308	-47.596	1.00	37.98	A16S
ATOM	16002	N3	G	A	765	166.058	95.606	-46.318	1.00	37.98	A16S
ATOM	16003	C2	G	A	765	165.858	94.574	-45.525	1.00	37.98	A16S
ATOM	16004	N2	G	A	765	166.041	94.710	-44.210	1.00	37.98	A16S
ATOM	16005	N1	G	A	765	165.447	93.341	-45.961	1.00	37.98	A16S
ATOM	16006	C6	G	A	765	165.151	93.027	-47.282	1.00	37.98	A16S
ATOM	16007	O6	G	A	765	164.746	91.900	-47.579	1.00	37.98	A16S
ATOM	16008	C5	G	A	765	165.355	94.116	-48.127	1.00	37.98	A16S
ATOM	16009	N7	G	A	765	165.178	94.220	-49.491	1.00	37.98	A16S

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ATOM	16010	C8	G	A	765	165.507	95.451	-49.763	1.00	37.98	A16S
ATOM	16011	C2*	G	A	765	167.921	97.591	-48.462	1.00	40.58	A16S
ATOM	16012	O2*	G	A	765	168.251	98.763	-47.725	1.00	40.58	A16S
ATOM	16013	C3*	G	A	765	168.389	97.643	-49.916	1.00	40.58	A16S
ATOM	16014	O3*	G	A	765	169.661	98.262	-50.027	1.00	40.58	A16S
ATOM	16015	P	A	A	766	170.748	97.702	-51.078	1.00	42.29	A16S
ATOM	16016	O1P	A	A	766	170.289	98.189	-52.422	1.00	24.81	A16S
ATOM	16017	O2P	A	A	766	170.983	96.226	-50.848	1.00	24.81	A16S
ATOM	16018	O5*	A	A	766	172.074	98.503	-50.679	1.00	42.29	A16S
ATOM	16019	C5*	A	A	766	172.115	99.933	-50.806	1.00	42.29	A16S
ATOM	16020	C4*	A	A	766	173.245	100.531	-49.993	1.00	42.29	A16S
ATOM	16021	O4*	A	A	766	172.939	100.555	-48.576	1.00	42.29	A16S
ATOM	16022	C1*	A	A	766	174.153	100.641	-47.846	1.00	42.29	A16S
ATOM	16023	N9	A	A	766	174.202	99.609	-46.814	1.00	24.81	A16S
ATOM	16024	C4	A	A	766	175.203	99.539	-45.879	1.00	24.81	A16S
ATOM	16025	N3	A	A	766	176.243	100.386	-45.750	1.00	24.81	A16S
ATOM	16026	C2	A	A	766	177.030	100.004	-44.743	1.00	24.81	A16S
ATOM	16027	N1	A	A	766	176.907	98.941	-43.924	1.00	24.81	A16S
ATOM	16028	C6	A	A	766	175.851	98.100	-44.097	1.00	24.81	A16S
ATOM	16029	N6	A	A	766	175.750	97.015	-43.302	1.00	24.81	A16S
ATOM	16030	C5	A	A	766	174.933	98.416	-45.117	1.00	24.81	A16S
ATOM	16031	N7	A	A	766	173.770	97.802	-45.549	1.00	24.81	A16S
ATOM	16032	C8	A	A	766	173.374	98.547	-46.558	1.00	24.81	A16S
ATOM	16033	C2*	A	A	766	175.304	100.452	-48.830	1.00	42.29	A16S
ATOM	16034	O2*	A	A	766	175.878	101.714	-49.100	1.00	42.29	A16S
ATOM	16035	C3*	A	A	766	174.586	99.833	-50.021	1.00	42.29	A16S
ATOM	16036	O3*	A	A	766	175.283	100.021	-51.222	1.00	42.29	A16S
ATOM	16037	P	A	A	767	175.978	98.748	-51.915	1.00	51.42	A16S
ATOM	16038	O1P	A	A	767	176.569	99.303	-53.172	1.00	35.22	A16S
ATOM	16039	O2P	A	A	767	175.027	97.602	-51.992	1.00	35.22	A16S
ATOM	16040	O5*	A	A	767	177.092	98.307	-50.866	1.00	51.42	A16S
ATOM	16041	C5*	A	A	767	178.154	99.199	-50.523	1.00	51.42	A16S
ATOM	16042	C4*	A	A	767	178.951	98.654	-49.369	1.00	51.42	A16S
ATOM	16043	O4*	A	A	767	178.170	98.693	-48.151	1.00	51.42	A16S
ATOM	16044	C1*	A	A	767	178.536	97.606	-47.322	1.00	51.42	A16S
ATOM	16045	N9	A	A	767	177.368	96.749	-47.162	1.00	35.22	A16S
ATOM	16046	C4	A	A	767	177.162	95.810	-46.179	1.00	35.22	A16S
ATOM	16047	N3	A	A	767	177.957	95.530	-45.138	1.00	35.22	A16S
ATOM	16048	C2	A	A	767	177.445	94.536	-44.409	1.00	35.22	A16S
ATOM	16049	N1	A	A	767	176.321	93.845	-44.595	1.00	35.22	A16S
ATOM	16050	C6	A	A	767	175.554	94.153	-45.654	1.00	35.22	A16S
ATOM	16051	N6	A	A	767	174.450	93.455	-45.852	1.00	35.22	A16S
ATOM	16052	C5	A	A	767	175.974	95.190	-46.493	1.00	35.22	A16S
ATOM	16053	N7	A	A	767	175.418	95.750	-47.630	1.00	35.22	A16S
ATOM	16054	C8	A	A	767	176.277	96.677	-47.981	1.00	35.22	A16S
ATOM	16055	C2*	A	A	767	179.654	96.847	-48.037	1.00	51.42	A16S
ATOM	16056	O2*	A	A	767	180.911	97.352	-47.643	1.00	51.42	A16S
ATOM	16057	C3*	A	A	767	179.389	97.209	-49.482	1.00	51.42	A16S
ATOM	16058	O3*	A	A	767	180.560	97.086	-50.248	1.00	51.42	A16S
ATOM	16059	P	A	A	768	180.873	95.700	-50.979	1.00	33.16	A16S
ATOM	16060	O1P	A	A	768	182.163	95.907	-51.687	1.00	32.80	A16S
ATOM	16061	O2P	A	A	768	179.664	95.270	-51.740	1.00	32.80	A16S
ATOM	16062	O5*	A	A	768	181.123	94.690	-49.777	1.00	33.16	A16S
ATOM	16063	C5*	A	A	768	182.272	94.845	-48.928	1.00	33.16	A16S
ATOM	16064	C4*	A	A	768	182.238	93.825	-47.819	1.00	33.16	A16S
ATOM	16065	O4*	A	A	768	181.086	94.080	-46.986	1.00	33.16	A16S
ATOM	16066	C1*	A	A	768	180.488	92.861	-46.592	1.00	33.16	A16S
ATOM	16067	N9	A	A	768	179.163	92.821	-47.213	1.00	32.80	A16S
ATOM	16068	C4	A	A	768	178.113	91.983	-46.919	1.00	32.80	A16S
ATOM	16069	N3	A	A	768	178.063	91.043	-45.967	1.00	32.80	A16S
ATOM	16070	C2	A	A	768	176.902	90.389	-46.023	1.00	32.80	A16S
ATOM	16071	N1	A	A	768	175.874	90.555	-46.864	1.00	32.80	A16S
ATOM	16072	C6	A	A	768	175.966	91.514	-47.811	1.00	32.80	A16S
ATOM	16073	N6	A	A	768	174.962	91.673	-48.675	1.00	32.80	A16S
ATOM	16074	C5	A	A	768	177.123	92.283	-47.845	1.00	32.80	A16S
ATOM	16075	N7	A	A	768	177.515	93.325	-48.674	1.00	32.80	A16S
ATOM	16076	C8	A	A	768	178.726	93.614	-48.261	1.00	32.80	A16S
ATOM	16077	C2*	A	A	768	181.403	91.733	-47.079	1.00	33.16	A16S
ATOM	16078	O2*	A	A	768	182.334	91.398	-46.067	1.00	33.16	A16S
ATOM	16079	C3*	A	A	768	182.091	92.383	-48.269	1.00	33.16	A16S
ATOM	16080	O3*	A	A	768	183.366	91.808	-48.512	1.00	33.16	A16S
ATOM	16081	P	G	A	769	183.526	90.669	-49.634	1.00	41.43	A16S
ATOM	16082	O1P	G	A	769	184.881	90.068	-49.470	1.00	28.62	A16S
ATOM	16083	O2P	G	A	769	183.148	91.271	-50.954	1.00	28.62	A16S
ATOM	16084	O5*	G	A	769	182.442	89.574	-49.206	1.00	41.43	A16S
ATOM	16085	C5*	G	A	769	182.585	88.869	-47.968	1.00	41.43	A16S
ATOM	16086	C4*	G	A	769	181.381	87.995	-47.699	1.00	41.43	A16S

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ATOM	16087	O4*	G	A	769	180.192	88.811	-47.562	1.00	41.43	A16S
ATOM	16088	C1*	G	A	769	179.048	88.059	-47.940	1.00	41.43	A16S
ATOM	16089	N9	G	A	769	178.345	88.766	-49.003	1.00	28.62	A16S
ATOM	16090	C4	G	A	769	177.202	88.350	-49.651	1.00	28.62	A16S
ATOM	16091	N3	G	A	769	176.538	87.195	-49.432	1.00	28.62	A16S
ATOM	16092	C2	G	A	769	175.444	87.099	-50.185	1.00	28.62	A16S
ATOM	16093	N2	G	A	769	174.641	86.022	-50.064	1.00	28.62	A16S
ATOM	16094	N1	G	A	769	175.060	88.050	-51.097	1.00	28.62	A16S
ATOM	16095	C6	G	A	769	175.752	89.237	-51.348	1.00	28.62	A16S
ATOM	16096	O6	G	A	769	175.351	90.024	-52.211	1.00	28.62	A16S
ATOM	16097	C5	G	A	769	176.891	89.363	-50.532	1.00	28.62	A16S
ATOM	16098	N7	G	A	769	177.821	90.391	-50.453	1.00	28.62	A16S
ATOM	16099	C8	G	A	769	178.671	89.987	-49.543	1.00	28.62	A16S
ATOM	16100	C2*	G	A	769	179.532	86.685	-48.375	1.00	41.43	A16S
ATOM	16101	O2*	G	A	769	179.438	85.837	-47.250	1.00	41.43	A16S
ATOM	16102	C3*	G	A	769	180.974	86.984	-48.754	1.00	41.43	A16S
ATOM	16103	O3*	G	A	769	181.772	85.820	-48.771	1.00	41.43	A16S
ATOM	16104	P	C	A	770	182.174	85.190	-50.193	1.00	44.20	A16S
ATOM	16105	O1P	C	A	770	183.359	84.300	-49.980	1.00	33.59	A16S
ATOM	16106	O2P	C	A	770	182.248	86.297	-51.186	1.00	33.59	A16S
ATOM	16107	O5*	C	A	770	180.901	84.327	-50.584	1.00	44.20	A16S
ATOM	16108	C5*	C	A	770	180.400	83.377	-49.665	1.00	44.20	A16S
ATOM	16109	C4*	C	A	770	179.099	82.810	-50.147	1.00	44.20	A16S
ATOM	16110	O4*	C	A	770	178.067	83.823	-50.131	1.00	44.20	A16S
ATOM	16111	C1*	C	A	770	177.093	83.510	-51.108	1.00	44.20	A16S
ATOM	16112	N1	C	A	770	176.956	84.640	-52.037	1.00	33.59	A16S
ATOM	16113	C6	C	A	770	177.856	85.665	-52.069	1.00	33.59	A16S
ATOM	16114	C2	C	A	770	175.865	84.644	-52.884	1.00	33.59	A16S
ATOM	16115	O2	C	A	770	175.091	83.670	-52.852	1.00	33.59	A16S
ATOM	16116	N3	C	A	770	175.672	85.688	-53.719	1.00	33.59	A16S
ATOM	16117	C4	C	A	770	176.536	86.691	-53.729	1.00	33.59	A16S
ATOM	16118	N4	C	A	770	176.292	87.706	-54.544	1.00	33.59	A16S
ATOM	16119	C5	C	A	770	177.684	86.703	-52.894	1.00	33.59	A16S
ATOM	16120	C2*	C	A	770	177.550	82.249	-51.828	1.00	44.20	A16S
ATOM	16121	O2*	C	A	770	176.943	81.139	-51.202	1.00	44.20	A16S
ATOM	16122	C3*	C	A	770	179.046	82.289	-51.566	1.00	44.20	A16S
ATOM	16123	O3*	C	A	770	179.642	81.021	-51.707	1.00	44.20	A16S
ATOM	16124	P	G	A	771	180.309	80.643	-53.110	1.00	53.17	A16S
ATOM	16125	O1P	G	A	771	181.105	79.407	-52.845	1.00	44.14	A16S
ATOM	16126	O2P	G	A	771	180.970	81.850	-53.678	1.00	44.14	A16S
ATOM	16127	O5*	G	A	771	179.057	80.368	-54.051	1.00	53.17	A16S
ATOM	16128	C5*	G	A	771	178.181	79.254	-53.815	1.00	53.17	A16S
ATOM	16129	C4*	G	A	771	177.176	79.148	-54.934	1.00	53.17	A16S
ATOM	16130	O4*	G	A	771	176.238	80.250	-54.844	1.00	53.17	A16S
ATOM	16131	C1*	G	A	771	175.833	80.637	-56.151	1.00	53.17	A16S
ATOM	16132	N9	G	A	771	176.154	82.046	-56.356	1.00	44.14	A16S
ATOM	16133	C4	G	A	771	175.574	82.863	-57.284	1.00	44.14	A16S
ATOM	16134	N3	G	A	771	174.595	82.510	-58.135	1.00	44.14	A16S
ATOM	16135	C2	G	A	771	174.249	83.510	-58.929	1.00	44.14	A16S
ATOM	16136	N2	G	A	771	173.275	83.332	-59.836	1.00	44.14	A16S
ATOM	16137	N1	G	A	771	174.827	84.759	-58.893	1.00	44.14	A16S
ATOM	16138	C6	G	A	771	175.841	85.144	-58.020	1.00	44.14	A16S
ATOM	16139	O6	G	A	771	176.302	86.299	-58.070	1.00	44.14	A16S
ATOM	16140	C5	G	A	771	176.215	84.078	-57.157	1.00	44.14	A16S
ATOM	16141	N7	G	A	771	177.171	84.029	-56.151	1.00	44.14	A16S
ATOM	16142	C8	G	A	771	177.097	82.806	-55.700	1.00	44.14	A16S
ATOM	16143	C2*	G	A	771	176.569	79.752	-57.159	1.00	53.17	A16S
ATOM	16144	O2*	G	A	771	175.741	78.703	-57.608	1.00	53.17	A16S
ATOM	16145	C3*	G	A	771	177.754	79.276	-56.334	1.00	53.17	A16S
ATOM	16146	O3*	G	A	771	178.320	78.080	-56.832	1.00	53.17	A16S
ATOM	16147	P	U	A	772	179.578	78.172	-57.827	1.00	59.31	A16S
ATOM	16148	O1P	U	A	772	180.161	76.807	-57.863	1.00	52.25	A16S
ATOM	16149	O2P	U	A	772	180.424	79.319	-57.409	1.00	52.25	A16S
ATOM	16150	O5*	U	A	772	178.922	78.554	-59.232	1.00	59.31	A16S
ATOM	16151	C5*	U	A	772	177.980	77.670	-59.859	1.00	59.31	A16S
ATOM	16152	C4*	U	A	772	177.453	78.272	-61.136	1.00	59.31	A16S
ATOM	16153	O4*	U	A	772	176.516	79.334	-60.831	1.00	59.31	A16S
ATOM	16154	C1*	U	A	772	176.612	80.349	-61.817	1.00	59.31	A16S
ATOM	16155	N1	U	A	772	177.079	81.579	-61.166	1.00	52.25	A16S
ATOM	16156	C6	U	A	772	177.820	81.530	-60.015	1.00	52.25	A16S
ATOM	16157	C2	U	A	772	176.766	82.791	-61.756	1.00	52.25	A16S
ATOM	16158	O2	U	A	772	176.105	82.886	-62.770	1.00	52.25	A16S
ATOM	16159	N3	U	A	772	177.263	83.892	-61.114	1.00	52.25	A16S
ATOM	16160	C4	U	A	772	178.024	83.910	-59.975	1.00	52.25	A16S
ATOM	16161	O4	U	A	772	178.434	84.984	-59.541	1.00	52.25	A16S
ATOM	16162	C5	U	A	772	178.291	82.622	-59.418	1.00	52.25	A16S
ATOM	16163	C2*	U	A	772	177.621	79.882	-62.865	1.00	59.31	A16S

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ATOM	16164	O2*	U	A	772	176.951	79.253	-63.943	1.00	59.31	A16S
ATOM	16165	C3*	U	A	772	178.478	78.922	-62.052	1.00	59.31	A16S
ATOM	16166	O3*	U	A	772	179.199	78.006	-62.866	1.00	59.31	A16S
ATOM	16167	P	G	A	773	180.696	78.379	-63.333	1.00	67.59	A16S
ATOM	16168	O1P	G	A	773	181.201	77.189	-64.063	1.00	67.78	A16S
ATOM	16169	O2P	G	A	773	181.469	78.905	-62.172	1.00	67.78	A16S
ATOM	16170	O5*	G	A	773	180.490	79.584	-64.361	1.00	67.59	A16S
ATOM	16171	C5*	G	A	773	179.750	79.373	-65.569	1.00	67.59	A16S
ATOM	16172	C4*	G	A	773	179.443	80.680	-66.265	1.00	67.59	A16S
ATOM	16173	O4*	G	A	773	178.513	81.470	-65.482	1.00	67.59	A16S
ATOM	16174	C1*	G	A	773	178.688	82.844	-65.797	1.00	67.59	A16S
ATOM	16175	N9	G	A	773	179.066	83.581	-64.594	1.00	67.78	A16S
ATOM	16176	C4	G	A	773	179.080	84.949	-64.476	1.00	67.78	A16S
ATOM	16177	N3	G	A	773	178.679	85.825	-65.420	1.00	67.78	A16S
ATOM	16178	C2	G	A	773	178.842	87.078	-65.035	1.00	67.78	A16S
ATOM	16179	N2	G	A	773	178.481	88.080	-65.853	1.00	67.78	A16S
ATOM	16180	N1	G	A	773	179.369	87.442	-63.823	1.00	67.78	A16S
ATOM	16181	C6	G	A	773	179.794	86.560	-62.838	1.00	67.78	A16S
ATOM	16182	O6	G	A	773	180.273	87.000	-61.788	1.00	67.78	A16S
ATOM	16183	C5	G	A	773	179.608	85.206	-63.231	1.00	67.78	A16S
ATOM	16184	N7	G	A	773	179.880	84.020	-62.556	1.00	67.78	A16S
ATOM	16185	C8	G	A	773	179.532	83.083	-63.398	1.00	67.78	A16S
ATOM	16186	C2*	G	A	773	179.825	82.941	-66.815	1.00	67.59	A16S
ATOM	16187	O2*	G	A	773	179.311	82.997	-68.131	1.00	67.59	A16S
ATOM	16188	C3*	G	A	773	180.579	81.647	-66.556	1.00	67.59	A16S
ATOM	16189	O3*	G	A	773	181.348	81.305	-67.691	1.00	67.59	A16S
ATOM	16190	P	G	A	774	182.877	81.805	-67.789	1.00	68.22	A16S
ATOM	16191	O1P	G	A	774	183.380	81.243	-69.075	1.00	64.09	A16S
ATOM	16192	O2P	G	A	774	183.582	81.469	-66.519	1.00	64.09	A16S
ATOM	16193	O5*	G	A	774	182.773	83.395	-67.946	1.00	68.22	A16S
ATOM	16194	C5*	G	A	774	182.336	83.962	-69.196	1.00	68.22	A16S
ATOM	16195	C4*	G	A	774	182.266	85.473	-69.133	1.00	68.22	A16S
ATOM	16196	O4*	G	A	774	181.400	85.889	-68.046	1.00	68.22	A16S
ATOM	16197	C1*	G	A	774	181.771	87.192	-67.621	1.00	68.22	A16S
ATOM	16198	N9	G	A	774	182.140	87.164	-66.212	1.00	64.09	A16S
ATOM	16199	C4	G	A	774	182.258	88.264	-65.402	1.00	64.09	A16S
ATOM	16200	N3	G	A	774	182.030	89.542	-65.771	1.00	64.09	A16S
ATOM	16201	C2	G	A	774	182.227	90.385	-64.775	1.00	64.09	A16S
ATOM	16202	N2	G	A	774	182.033	91.694	-64.972	1.00	64.09	A16S
ATOM	16203	N1	G	A	774	182.625	90.005	-63.512	1.00	64.09	A16S
ATOM	16204	C6	G	A	774	182.871	88.693	-63.109	1.00	64.09	A16S
ATOM	16205	O6	G	A	774	183.230	88.455	-61.945	1.00	64.09	A16S
ATOM	16206	C5	G	A	774	182.655	87.776	-64.174	1.00	64.09	A16S
ATOM	16207	N7	G	A	774	182.775	86.392	-64.210	1.00	64.09	A16S
ATOM	16208	C8	G	A	774	182.458	86.074	-65.437	1.00	64.09	A16S
ATOM	16209	C2*	G	A	774	182.972	87.622	-68.449	1.00	68.22	A16S
ATOM	16210	O2*	G	A	774	182.512	88.423	-69.515	1.00	68.22	A16S
ATOM	16211	C3*	G	A	774	183.534	86.280	-68.904	1.00	68.22	A16S
ATOM	16212	O3*	G	A	774	184.307	86.459	-70.078	1.00	68.22	A16S
ATOM	16213	P	G	A	775	185.833	86.967	-69.954	1.00	64.77	A16S
ATOM	16214	O1P	G	A	775	186.295	87.267	-71.346	1.00	56.74	A16S
ATOM	16215	O2P	G	A	775	186.604	86.024	-69.100	1.00	56.74	A16S
ATOM	16216	O5*	G	A	775	185.753	88.346	-69.159	1.00	64.77	A16S
ATOM	16217	C5*	G	A	775	185.201	89.529	-69.770	1.00	64.77	A16S
ATOM	16218	C4*	G	A	775	185.332	90.713	-68.840	1.00	64.77	A16S
ATOM	16219	O4*	G	A	775	184.538	90.494	-67.640	1.00	64.77	A16S
ATOM	16220	C1*	G	A	775	185.208	91.048	-66.518	1.00	64.77	A16S
ATOM	16221	N9	G	A	775	185.525	89.976	-65.575	1.00	56.74	A16S
ATOM	16222	C4	G	A	775	185.927	90.145	-64.274	1.00	56.74	A16S
ATOM	16223	N3	G	A	775	186.067	91.326	-63.638	1.00	56.74	A16S
ATOM	16224	C2	G	A	775	186.444	91.170	-62.386	1.00	56.74	A16S
ATOM	16225	N2	G	A	775	186.590	92.248	-61.609	1.00	56.74	A16S
ATOM	16226	N1	G	A	775	186.698	89.948	-61.808	1.00	56.74	A16S
ATOM	16227	C6	G	A	775	186.581	88.718	-62.455	1.00	56.74	A16S
ATOM	16228	O6	G	A	775	186.862	87.669	-61.855	1.00	56.74	A16S
ATOM	16229	C5	G	A	775	186.142	88.874	-63.788	1.00	56.74	A16S
ATOM	16230	N7	G	A	775	185.867	87.923	-64.758	1.00	56.74	A16S
ATOM	16231	C8	G	A	775	185.504	88.620	-65.800	1.00	56.74	A16S
ATOM	16232	C2*	G	A	775	186.479	91.725	-67.027	1.00	64.77	A16S
ATOM	16233	O2*	G	A	775	186.224	93.095	-67.246	1.00	64.77	A16S
ATOM	16234	C3*	G	A	775	186.734	90.963	-68.320	1.00	64.77	A16S
ATOM	16235	O3*	G	A	775	187.539	91.680	-69.240	1.00	64.77	A16S
ATOM	16236	P	G	A	776	189.134	91.454	-69.234	1.00	46.31	A16S
ATOM	16237	O1P	G	A	776	189.402	89.990	-69.088	1.00	49.77	A16S
ATOM	16238	O2P	G	A	776	189.703	92.211	-70.381	1.00	49.77	A16S
ATOM	16239	O5*	G	A	776	189.622	92.157	-67.898	1.00	46.31	A16S
ATOM	16240	C5*	G	A	776	189.256	93.508	-67.608	1.00	46.31	A16S

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ATOM	16241	C4*	G	A	776	189.599	93.823	-66.187	1.00	46.31	A16S
ATOM	16242	O4*	G	A	776	188.833	92.961	-65.318	1.00	46.31	A16S
ATOM	16243	C1*	G	A	776	189.586	92.677	-64.158	1.00	46.31	A16S
ATOM	16244	N9	G	A	776	189.641	91.238	-63.970	1.00	49.77	A16S
ATOM	16245	C4	G	A	776	189.868	90.593	-62.779	1.00	49.77	A16S
ATOM	16246	N3	G	A	776	190.075	91.187	-61.581	1.00	49.77	A16S
ATOM	16247	C2	G	A	776	190.264	90.297	-60.618	1.00	49.77	A16S
ATOM	16248	N2	G	A	776	190.502	90.711	-59.360	1.00	49.77	A16S
ATOM	16249	N1	G	A	776	190.240	88.937	-60.818	1.00	49.77	A16S
ATOM	16250	C6	G	A	776	190.026	88.313	-62.042	1.00	49.77	A16S
ATOM	16251	O6	G	A	776	190.016	87.083	-62.110	1.00	49.77	A16S
ATOM	16252	C5	G	A	776	189.836	89.252	-63.079	1.00	49.77	A16S
ATOM	16253	N7	G	A	776	189.599	89.058	-64.431	1.00	49.77	A16S
ATOM	16254	C8	G	A	776	189.487	90.264	-64.918	1.00	49.77	A16S
ATOM	16255	C2*	G	A	776	190.968	93.305	-64.307	1.00	46.31	A16S
ATOM	16256	O2*	G	A	776	191.029	94.473	-63.507	1.00	46.31	A16S
ATOM	16257	C3*	G	A	776	191.041	93.532	-65.815	1.00	46.31	A16S
ATOM	16258	O3*	G	A	776	191.875	94.621	-66.194	1.00	46.31	A16S
ATOM	16259	P	A	A	777	193.443	94.383	-66.493	1.00	52.37	A16S
ATOM	16260	O1P	A	A	777	193.882	93.111	-65.830	1.00	56.97	A16S
ATOM	16261	O2P	A	A	777	193.669	94.555	-67.975	1.00	56.97	A16S
ATOM	16262	O5*	A	A	777	194.079	95.613	-65.695	1.00	52.37	A16S
ATOM	16263	C5*	A	A	777	194.966	96.530	-66.344	1.00	52.37	A16S
ATOM	16264	C4*	A	A	777	194.717	97.942	-65.876	1.00	52.37	A16S
ATOM	16265	O4*	A	A	777	193.315	98.258	-66.059	1.00	52.37	A16S
ATOM	16266	C1*	A	A	777	192.932	99.244	-65.121	1.00	52.37	A16S
ATOM	16267	N9	A	A	777	191.879	98.717	-64.251	1.00	56.97	A16S
ATOM	16268	C4	A	A	777	191.162	99.460	-63.337	1.00	56.97	A16S
ATOM	16269	N3	A	A	777	191.261	100.780	-63.097	1.00	56.97	A16S
ATOM	16270	C2	A	A	777	190.452	101.140	-62.108	1.00	56.97	A16S
ATOM	16271	N1	A	A	777	189.617	100.391	-61.386	1.00	56.97	A16S
ATOM	16272	C6	A	A	777	189.537	99.068	-61.655	1.00	56.97	A16S
ATOM	16273	N6	A	A	777	188.705	98.311	-60.933	1.00	56.97	A16S
ATOM	16274	C5	A	A	777	190.343	98.561	-62.681	1.00	56.97	A16S
ATOM	16275	N7	A	A	777	190.510	97.279	-63.188	1.00	56.97	A16S
ATOM	16276	C8	A	A	777	191.424	97.425	-64.120	1.00	56.97	A16S
ATOM	16277	C2*	A	A	777	194.165	99.569	-64.288	1.00	52.37	A16S
ATOM	16278	O2*	A	A	777	194.822	100.631	-64.927	1.00	52.37	A16S
ATOM	16279	C3*	A	A	777	194.981	98.297	-64.420	1.00	52.37	A16S
ATOM	16280	O3*	A	A	777	196.361	98.567	-64.132	1.00	52.37	A16S
ATOM	16281	P	G	A	778	196.922	98.378	-62.615	1.00	44.22	A16S
ATOM	16282	O1P	G	A	778	198.366	98.758	-62.558	1.00	46.81	A16S
ATOM	16283	O2P	G	A	778	196.492	97.040	-62.095	1.00	46.81	A16S
ATOM	16284	O5*	G	A	778	196.135	99.461	-61.758	1.00	44.22	A16S
ATOM	16285	C5*	G	A	778	196.434	100.861	-61.839	1.00	44.22	A16S
ATOM	16286	C4*	G	A	778	195.525	101.608	-60.900	1.00	44.22	A16S
ATOM	16287	O4*	G	A	778	194.146	101.370	-61.302	1.00	44.22	A16S
ATOM	16288	C1*	G	A	778	193.337	101.159	-60.157	1.00	44.22	A16S
ATOM	16289	N9	G	A	778	192.835	99.784	-60.195	1.00	46.81	A16S
ATOM	16290	C4	G	A	778	191.838	99.249	-59.412	1.00	46.81	A16S
ATOM	16291	N3	G	A	778	191.135	99.906	-58.470	1.00	46.81	A16S
ATOM	16292	C2	G	A	778	190.241	99.130	-57.887	1.00	46.81	A16S
ATOM	16293	N2	G	A	778	189.458	99.635	-56.935	1.00	46.81	A16S
ATOM	16294	N1	G	A	778	190.046	97.805	-58.195	1.00	46.81	A16S
ATOM	16295	C6	G	A	778	190.746	97.102	-59.162	1.00	46.81	A16S
ATOM	16296	O6	G	A	778	190.473	95.911	-59.369	1.00	46.81	A16S
ATOM	16297	C5	G	A	778	191.726	97.932	-59.803	1.00	46.81	A16S
ATOM	16298	N7	G	A	778	192.631	97.645	-60.814	1.00	46.81	A16S
ATOM	16299	C8	G	A	778	193.265	98.768	-61.011	1.00	46.81	A16S
ATOM	16300	C2*	G	A	778	194.212	101.435	-58.934	1.00	44.22	A16S
ATOM	16301	O2*	G	A	778	194.158	102.807	-58.589	1.00	44.22	A16S
ATOM	16302	C3*	G	A	778	195.587	101.101	-59.471	1.00	44.22	A16S
ATOM	16303	O3*	G	A	778	196.584	101.751	-58.726	1.00	44.22	A16S
ATOM	16304	P	C	A	779	197.192	101.022	-57.429	1.00	41.93	A16S
ATOM	16305	O1P	C	A	779	198.145	102.010	-56.856	1.00	46.15	A16S
ATOM	16306	O2P	C	A	779	197.660	99.628	-57.745	1.00	46.15	A16S
ATOM	16307	O5*	C	A	779	195.942	100.822	-56.458	1.00	41.93	A16S
ATOM	16308	C5*	C	A	779	195.204	101.938	-55.910	1.00	41.93	A16S
ATOM	16309	C4*	C	A	779	194.065	101.420	-55.063	1.00	41.93	A16S
ATOM	16310	O4*	C	A	779	193.149	100.676	-55.902	1.00	41.93	A16S
ATOM	16311	C1*	C	A	779	192.602	99.608	-55.164	1.00	41.93	A16S
ATOM	16312	N1	C	A	779	192.767	98.367	-55.929	1.00	46.15	A16S
ATOM	16313	C6	C	A	779	193.772	98.225	-56.839	1.00	46.15	A16S
ATOM	16314	C2	C	A	779	191.871	97.318	-55.703	1.00	46.15	A16S
ATOM	16315	O2	C	A	779	190.953	97.476	-54.885	1.00	46.15	A16S
ATOM	16316	N3	C	A	779	192.021	96.162	-56.380	1.00	46.15	A16S
ATOM	16317	C4	C	A	779	193.006	96.031	-57.257	1.00	46.15	A16S

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ATOM	16318	N4	C	A	779	193.111	94.874	-57.894	1.00	46.15	A16S
ATOM	16319	C5	C	A	779	193.926	97.083	-57.518	1.00	46.15	A16S
ATOM	16320	C2*	C	A	779	193.255	99.575	-53.777	1.00	41.93	A16S
ATOM	16321	O2*	C	A	779	192.406	100.125	-52.795	1.00	41.93	A16S
ATOM	16322	C3*	C	A	779	194.487	100.433	-53.986	1.00	41.93	A16S
ATOM	16323	O3*	C	A	779	194.813	101.104	-52.783	1.00	41.93	A16S
ATOM	16324	P	A	A	780	195.777	100.389	-51.723	1.00	34.28	A16S
ATOM	16325	O1P	A	A	780	195.840	101.248	-50.507	1.00	61.88	A16S
ATOM	16326	O2P	A	A	780	197.037	100.060	-52.437	1.00	61.88	A16S
ATOM	16327	O5*	A	A	780	195.030	99.015	-51.408	1.00	34.28	A16S
ATOM	16328	C5*	A	A	780	194.140	98.906	-50.298	1.00	34.28	A16S
ATOM	16329	C4*	A	A	780	193.397	97.598	-50.351	1.00	34.28	A16S
ATOM	16330	O4*	A	A	780	193.067	97.334	-51.735	1.00	34.28	A16S
ATOM	16331	C1*	A	A	780	193.029	95.933	-51.949	1.00	34.28	A16S
ATOM	16332	N9	A	A	780	193.887	95.596	-53.084	1.00	61.88	A16S
ATOM	16333	C4	A	A	780	193.768	94.459	-53.843	1.00	61.88	A16S
ATOM	16334	N3	A	A	780	192.871	93.470	-53.692	1.00	61.88	A16S
ATOM	16335	C2	A	A	780	193.057	92.535	-54.604	1.00	61.88	A16S
ATOM	16336	N1	A	A	780	193.970	92.478	-55.574	1.00	61.88	A16S
ATOM	16337	C6	A	A	780	194.854	93.490	-55.689	1.00	61.88	A16S
ATOM	16338	N6	A	A	780	195.767	93.438	-56.650	1.00	61.88	A16S
ATOM	16339	C5	A	A	780	194.762	94.538	-54.790	1.00	61.88	A16S
ATOM	16340	N7	A	A	780	195.499	95.702	-54.641	1.00	61.88	A16S
ATOM	16341	C8	A	A	780	194.942	96.295	-53.616	1.00	61.88	A16S
ATOM	16342	C2*	A	A	780	193.420	95.228	-50.648	1.00	34.28	A16S
ATOM	16343	O2*	A	A	780	192.231	94.804	-50.023	1.00	34.28	A16S
ATOM	16344	C3*	A	A	780	194.121	96.341	-49.878	1.00	34.28	A16S
ATOM	16345	O3*	A	A	780	193.907	96.133	-48.489	1.00	34.28	A16S
ATOM	16346	P	A	A	781	195.105	95.583	-47.571	1.00	36.32	A16S
ATOM	16347	O1P	A	A	781	195.311	96.574	-46.468	1.00	58.73	A16S
ATOM	16348	O2P	A	A	781	196.244	95.215	-48.453	1.00	58.73	A16S
ATOM	16349	O5*	A	A	781	194.566	94.241	-46.913	1.00	36.32	A16S
ATOM	16350	C5*	A	A	781	193.455	93.573	-47.455	1.00	36.32	A16S
ATOM	16351	C4*	A	A	781	192.571	93.101	-46.344	1.00	36.32	A16S
ATOM	16352	O4*	A	A	781	191.344	92.599	-46.921	1.00	36.32	A16S
ATOM	16353	C1*	A	A	781	190.994	91.388	-46.300	1.00	36.32	A16S
ATOM	16354	N9	A	A	781	191.150	90.340	-47.299	1.00	58.73	A16S
ATOM	16355	C4	A	A	781	190.560	89.107	-47.270	1.00	58.73	A16S
ATOM	16356	N3	A	A	781	189.734	88.625	-46.328	1.00	58.73	A16S
ATOM	16357	C2	A	A	781	189.366	87.392	-46.631	1.00	58.73	A16S
ATOM	16358	N1	A	A	781	189.697	86.646	-47.688	1.00	58.73	A16S
ATOM	16359	C6	A	A	781	190.516	87.176	-48.620	1.00	58.73	A16S
ATOM	16360	N6	A	A	781	190.822	86.453	-49.696	1.00	58.73	A16S
ATOM	16361	C5	A	A	781	190.989	88.462	-48.410	1.00	58.73	A16S
ATOM	16362	N7	A	A	781	191.837	89.271	-49.148	1.00	58.73	A16S
ATOM	16363	C8	A	A	781	191.901	90.373	-48.448	1.00	58.73	A16S
ATOM	16364	C2*	A	A	781	191.906	91.202	-45.086	1.00	36.32	A16S
ATOM	16365	O2*	A	A	781	191.252	91.791	-43.985	1.00	36.32	A16S
ATOM	16366	C3*	A	A	781	193.156	91.966	-45.512	1.00	36.32	A16S
ATOM	16367	O3*	A	A	781	193.892	92.512	-44.405	1.00	36.32	A16S
ATOM	16368	P	A	A	782	194.958	91.605	-43.587	1.00	35.09	A16S
ATOM	16369	O1P	A	A	782	194.503	91.568	-42.177	1.00	51.12	A16S
ATOM	16370	O2P	A	A	782	196.326	92.124	-43.898	1.00	51.12	A16S
ATOM	16371	O5*	A	A	782	194.804	90.127	-44.164	1.00	35.09	A16S
ATOM	16372	C5*	A	A	782	193.934	89.179	-43.531	1.00	35.09	A16S
ATOM	16373	C4*	A	A	782	193.982	87.855	-44.253	1.00	35.09	A16S
ATOM	16374	O4*	A	A	782	193.514	88.015	-45.613	1.00	35.09	A16S
ATOM	16375	C1*	A	A	782	194.193	87.112	-46.467	1.00	35.09	A16S
ATOM	16376	N9	A	A	782	194.954	87.875	-47.452	1.00	51.12	A16S
ATOM	16377	C4	A	A	782	195.400	87.418	-48.672	1.00	51.12	A16S
ATOM	16378	N3	A	A	782	195.238	86.191	-49.199	1.00	51.12	A16S
ATOM	16379	C2	A	A	782	195.797	86.118	-50.404	1.00	51.12	A16S
ATOM	16380	N1	A	A	782	196.441	87.061	-51.095	1.00	51.12	A16S
ATOM	16381	C6	A	A	782	196.579	88.288	-50.542	1.00	51.12	A16S
ATOM	16382	N6	A	A	782	197.199	89.247	-51.240	1.00	51.12	A16S
ATOM	16383	C5	A	A	782	196.046	88.489	-49.260	1.00	51.12	A16S
ATOM	16384	N7	A	A	782	196.027	89.594	-48.422	1.00	51.12	A16S
ATOM	16385	C8	A	A	782	195.371	89.179	-47.366	1.00	51.12	A16S
ATOM	16386	C2*	A	A	782	195.121	86.286	-45.596	1.00	35.09	A16S
ATOM	16387	O2*	A	A	782	194.414	85.127	-45.210	1.00	35.09	A16S
ATOM	16388	C3*	A	A	782	195.347	87.224	-44.425	1.00	35.09	A16S
ATOM	16389	O3*	A	A	782	195.744	86.501	-43.283	1.00	35.09	A16S
ATOM	16390	P	C	A	783	197.281	86.539	-42.833	1.00	48.98	A16S
ATOM	16391	O1P	C	A	783	197.456	85.469	-41.795	1.00	40.20	A16S
ATOM	16392	O2P	C	A	783	197.582	87.970	-42.512	1.00	40.20	A16S
ATOM	16393	O5*	C	A	783	198.110	86.175	-44.139	1.00	48.98	A16S
ATOM	16394	C5*	C	A	783	198.035	84.871	-44.700	1.00	48.98	A16S

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ATOM	16395	C4*	C	A	783	198.699	84.854	-46.047	1.00	48.98	A16S
ATOM	16396	O4*	C	A	783	198.063	85.835	-46.897	1.00	48.98	A16S
ATOM	16397	C1*	C	A	783	199.018	86.396	-47.770	1.00	48.98	A16S
ATOM	16398	N1	C	A	783	199.048	87.846	-47.558	1.00	40.20	A16S
ATOM	16399	C6	C	A	783	198.782	88.402	-46.336	1.00	40.20	A16S
ATOM	16400	C2	C	A	783	199.354	88.658	-48.648	1.00	40.20	A16S
ATOM	16401	O2	C	A	783	199.612	88.111	-49.742	1.00	40.20	A16S
ATOM	16402	N3	C	A	783	199.365	90.005	-48.492	1.00	40.20	A16S
ATOM	16403	C4	C	A	783	199.085	90.536	-47.309	1.00	40.20	A16S
ATOM	16404	N4	C	A	783	199.082	91.856	-47.213	1.00	40.20	A16S
ATOM	16405	C5	C	A	783	198.789	89.730	-46.171	1.00	40.20	A16S
ATOM	16406	C2*	C	A	783	200.361	85.732	-47.492	1.00	48.98	A16S
ATOM	16407	O2*	C	A	783	200.527	84.681	-48.419	1.00	48.98	A16S
ATOM	16408	C3*	C	A	783	200.165	85.240	-46.066	1.00	48.98	A16S
ATOM	16409	O3*	C	A	783	200.984	84.125	-45.749	1.00	48.98	A16S
ATOM	16410	P	C	A	784	202.482	84.373	-45.224	1.00	51.16	A16S
ATOM	16411	O1P	C	A	784	203.061	83.023	-44.979	1.00	55.91	A16S
ATOM	16412	O2P	C	A	784	202.507	85.399	-44.141	1.00	55.91	A16S
ATOM	16413	O5*	C	A	784	203.198	84.993	-46.497	1.00	51.16	A16S
ATOM	16414	C5*	C	A	784	203.443	84.183	-47.646	1.00	51.16	A16S
ATOM	16415	C4*	C	A	784	204.354	84.909	-48.576	1.00	51.16	A16S
ATOM	16416	O4*	C	A	784	203.633	85.980	-49.229	1.00	51.16	A16S
ATOM	16417	C1*	C	A	784	204.484	87.099	-49.396	1.00	51.16	A16S
ATOM	16418	N1	C	A	784	203.874	88.259	-48.720	1.00	55.91	A16S
ATOM	16419	C6	C	A	784	203.067	88.092	-47.631	1.00	55.91	A16S
ATOM	16420	C2	C	A	784	204.133	89.545	-49.213	1.00	55.91	A16S
ATOM	16421	O2	C	A	784	204.874	89.674	-50.193	1.00	55.91	A16S
ATOM	16422	N3	C	A	784	203.572	90.613	-48.609	1.00	55.91	A16S
ATOM	16423	C4	C	A	784	202.785	90.437	-47.551	1.00	55.91	A16S
ATOM	16424	N4	C	A	784	202.256	91.516	-46.984	1.00	55.91	A16S
ATOM	16425	C5	C	A	784	202.507	89.143	-47.024	1.00	55.91	A16S
ATOM	16426	C2*	C	A	784	205.852	86.723	-48.831	1.00	51.16	A16S
ATOM	16427	O2*	C	A	784	206.681	86.266	-49.876	1.00	51.16	A16S
ATOM	16428	C3*	C	A	784	205.486	85.608	-47.864	1.00	51.16	A16S
ATOM	16429	O3*	C	A	784	206.546	84.726	-47.586	1.00	51.16	A16S
ATOM	16430	P	G	A	785	207.725	85.208	-46.616	1.00	52.09	A16S
ATOM	16431	O1P	G	A	785	208.870	84.292	-46.893	1.00	51.97	A16S
ATOM	16432	O2P	G	A	785	207.204	85.356	-45.220	1.00	51.97	A16S
ATOM	16433	O5*	G	A	785	208.084	86.640	-47.211	1.00	52.09	A16S
ATOM	16434	C5*	G	A	785	208.890	87.576	-46.493	1.00	52.09	A16S
ATOM	16435	C4*	G	A	785	209.293	88.702	-47.413	1.00	52.09	A16S
ATOM	16436	O4*	G	A	785	208.112	89.250	-48.052	1.00	52.09	A16S
ATOM	16437	C1*	G	A	785	208.273	90.649	-48.241	1.00	52.09	A16S
ATOM	16438	N9	G	A	785	207.217	91.338	-47.503	1.00	51.97	A16S
ATOM	16439	C4	G	A	785	207.083	92.698	-47.357	1.00	51.97	A16S
ATOM	16440	N3	G	A	785	207.884	93.638	-47.907	1.00	51.97	A16S
ATOM	16441	C2	G	A	785	207.531	94.860	-47.549	1.00	51.97	A16S
ATOM	16442	N2	G	A	785	208.219	95.901	-48.004	1.00	51.97	A16S
ATOM	16443	N1	G	A	785	206.482	95.138	-46.716	1.00	51.97	A16S
ATOM	16444	C6	G	A	785	205.654	94.184	-46.126	1.00	51.97	A16S
ATOM	16445	O6	G	A	785	204.757	94.536	-45.345	1.00	51.97	A16S
ATOM	16446	C5	G	A	785	206.009	92.871	-46.521	1.00	51.97	A16S
ATOM	16447	N7	G	A	785	205.449	91.650	-46.182	1.00	51.97	A16S
ATOM	16448	C8	G	A	785	206.193	90.772	-46.791	1.00	51.97	A16S
ATOM	16449	C2*	G	A	785	209.661	91.030	-47.718	1.00	52.09	A16S
ATOM	16450	O2*	G	A	785	210.590	91.125	-48.782	1.00	52.09	A16S
ATOM	16451	C3*	G	A	785	209.936	89.896	-46.742	1.00	52.09	A16S
ATOM	16452	O3*	G	A	785	211.303	89.692	-46.498	1.00	52.09	A16S
ATOM	16453	P	G	A	786	211.945	90.269	-45.145	1.00	42.81	A16S
ATOM	16454	O1P	G	A	786	213.367	89.814	-45.132	1.00	46.51	A16S
ATOM	16455	O2P	G	A	786	211.046	89.908	-44.012	1.00	46.51	A16S
ATOM	16456	O5*	G	A	786	211.961	91.847	-45.376	1.00	42.81	A16S
ATOM	16457	C5*	G	A	786	212.845	92.384	-46.357	1.00	42.81	A16S
ATOM	16458	C4*	G	A	786	212.759	93.875	-46.407	1.00	42.81	A16S
ATOM	16459	O4*	G	A	786	211.436	94.257	-46.844	1.00	42.81	A16S
ATOM	16460	C1*	G	A	786	211.088	95.497	-46.255	1.00	42.81	A16S
ATOM	16461	N9	G	A	786	209.932	95.292	-45.384	1.00	46.51	A16S
ATOM	16462	C4	G	A	786	209.209	96.277	-44.756	1.00	46.51	A16S
ATOM	16463	N3	G	A	786	209.446	97.603	-44.837	1.00	46.51	A16S
ATOM	16464	C2	G	A	786	208.567	98.307	-44.155	1.00	46.51	A16S
ATOM	16465	N2	G	A	786	208.655	99.650	-44.167	1.00	46.51	A16S
ATOM	16466	N1	G	A	786	207.537	97.746	-43.427	1.00	46.51	A16S
ATOM	16467	C6	G	A	786	207.281	96.380	-43.327	1.00	46.51	A16S
ATOM	16468	O6	G	A	786	206.324	95.976	-42.659	1.00	46.51	A16S
ATOM	16469	C5	G	A	786	208.217	95.620	-44.065	1.00	46.51	A16S
ATOM	16470	N7	G	A	786	208.321	94.248	-44.241	1.00	46.51	A16S
ATOM	16471	C8	G	A	786	209.353	94.099	-45.025	1.00	46.51	A16S

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ATOM	16472	C2*	G	A	786	212.301	95.971	-45.454	1.00	42.81	A16S
ATOM	16473	O2*	G	A	786	213.112	96.782	-46.293	1.00	42.81	A16S
ATOM	16474	C3*	G	A	786	212.977	94.650	-45.118	1.00	42.81	A16S
ATOM	16475	O3*	G	A	786	214.356	94.840	-44.802	1.00	42.81	A16S
ATOM	16476	P	A	A	787	214.844	94.795	-43.257	1.00	62.59	A16S
ATOM	16477	O1P	A	A	787	216.327	94.984	-43.314	1.00	48.37	A16S
ATOM	16478	O2P	A	A	787	214.281	93.584	-42.586	1.00	48.37	A16S
ATOM	16479	O5*	A	A	787	214.156	96.060	-42.561	1.00	62.59	A16S
ATOM	16480	C5*	A	A	787	214.572	97.390	-42.899	1.00	62.59	A16S
ATOM	16481	C4*	A	A	787	213.564	98.417	-42.428	1.00	62.59	A16S
ATOM	16482	O4*	A	A	787	212.228	98.019	-42.832	1.00	62.59	A16S
ATOM	16483	C1*	A	A	787	211.283	98.580	-41.941	1.00	62.59	A16S
ATOM	16484	N9	A	A	787	210.443	97.525	-41.367	1.00	48.37	A16S
ATOM	16485	C4	A	A	787	209.258	97.766	-40.711	1.00	48.37	A16S
ATOM	16486	N3	A	A	787	208.675	98.961	-40.498	1.00	48.37	A16S
ATOM	16487	C2	A	A	787	207.535	98.812	-39.842	1.00	48.37	A16S
ATOM	16488	N1	A	A	787	206.952	97.692	-39.398	1.00	48.37	A16S
ATOM	16489	C6	A	A	787	207.562	96.511	-39.623	1.00	48.37	A16S
ATOM	16490	N6	A	A	787	206.975	95.401	-39.178	1.00	48.37	A16S
ATOM	16491	C5	A	A	787	208.783	96.530	-40.320	1.00	48.37	A16S
ATOM	16492	N7	A	A	787	209.651	95.522	-40.722	1.00	48.37	A16S
ATOM	16493	C8	A	A	787	210.617	96.162	-41.337	1.00	48.37	A16S
ATOM	16494	C2*	A	A	787	212.053	99.342	-40.869	1.00	62.59	A16S
ATOM	16495	O2*	A	A	787	212.065	100.692	-41.268	1.00	62.59	A16S
ATOM	16496	C3*	A	A	787	213.428	98.688	-40.939	1.00	62.59	A16S
ATOM	16497	O3*	A	A	787	214.428	99.579	-40.463	1.00	62.59	A16S
ATOM	16498	P	U	A	788	214.882	99.516	-38.918	1.00	50.93	A16S
ATOM	16499	O1P	U	A	788	215.950	100.535	-38.720	1.00	46.03	A16S
ATOM	16500	O2P	U	A	788	215.133	98.099	-38.540	1.00	46.03	A16S
ATOM	16501	O5*	U	A	788	213.599	100.001	-38.111	1.00	50.93	A16S
ATOM	16502	C5*	U	A	788	213.200	101.388	-38.089	1.00	50.93	A16S
ATOM	16503	C4*	U	A	788	211.999	101.556	-37.190	1.00	50.93	A16S
ATOM	16504	O4*	U	A	788	210.878	100.835	-37.758	1.00	50.93	A16S
ATOM	16505	C1*	U	A	788	210.135	100.210	-36.728	1.00	50.93	A16S
ATOM	16506	N1	U	A	788	210.123	98.760	-36.965	1.00	46.03	A16S
ATOM	16507	C6	U	A	788	211.158	98.129	-37.602	1.00	46.03	A16S
ATOM	16508	C2	U	A	788	209.028	98.048	-36.512	1.00	46.03	A16S
ATOM	16509	O2	U	A	788	208.092	98.575	-35.949	1.00	46.03	A16S
ATOM	16510	N3	U	A	788	209.076	96.695	-36.741	1.00	46.03	A16S
ATOM	16511	C4	U	A	788	210.090	96.002	-37.362	1.00	46.03	A16S
ATOM	16512	O4	U	A	788	210.016	94.779	-37.461	1.00	46.03	A16S
ATOM	16513	C5	U	A	788	211.180	96.811	-37.809	1.00	46.03	A16S
ATOM	16514	C2*	U	A	788	210.764	100.589	-35.389	1.00	50.93	A16S
ATOM	16515	O2*	U	A	788	210.049	101.685	-34.867	1.00	50.93	A16S
ATOM	16516	C3*	U	A	788	212.181	100.958	-35.805	1.00	50.93	A16S
ATOM	16517	O3*	U	A	788	212.759	101.913	-34.933	1.00	50.93	A16S
ATOM	16518	P	U	A	789	213.823	101.433	-33.845	1.00	58.32	A16S
ATOM	16519	O1P	U	A	789	214.249	102.639	-33.088	1.00	71.67	A16S
ATOM	16520	O2P	U	A	789	214.832	100.591	-34.537	1.00	71.67	A16S
ATOM	16521	O5*	U	A	789	212.971	100.504	-32.880	1.00	58.32	A16S
ATOM	16522	C5*	U	A	789	211.833	101.040	-32.214	1.00	58.32	A16S
ATOM	16523	C4*	U	A	789	211.011	99.943	-31.597	1.00	58.32	A16S
ATOM	16524	O4*	U	A	789	210.348	99.152	-32.615	1.00	58.32	A16S
ATOM	16525	C1*	U	A	789	210.152	97.840	-32.124	1.00	58.32	A16S
ATOM	16526	N1	U	A	789	210.770	96.871	-33.047	1.00	71.67	A16S
ATOM	16527	C6	U	A	789	211.756	97.229	-33.932	1.00	71.67	A16S
ATOM	16528	C2	U	A	789	210.328	95.562	-32.982	1.00	71.67	A16S
ATOM	16529	O2	U	A	789	209.441	95.197	-32.238	1.00	71.67	A16S
ATOM	16530	N3	U	A	789	210.960	94.690	-33.825	1.00	71.67	A16S
ATOM	16531	C4	U	A	789	211.953	94.976	-34.717	1.00	71.67	A16S
ATOM	16532	O4	U	A	789	212.408	94.070	-35.416	1.00	71.67	A16S
ATOM	16533	C5	U	A	789	212.348	96.348	-34.747	1.00	71.67	A16S
ATOM	16534	C2*	U	A	789	210.752	97.776	-30.715	1.00	58.32	A16S
ATOM	16535	O2*	U	A	789	209.722	98.012	-29.773	1.00	58.32	A16S
ATOM	16536	C3*	U	A	789	211.748	98.928	-30.745	1.00	58.32	A16S
ATOM	16537	O3*	U	A	789	212.012	99.438	-29.442	1.00	58.32	A16S
ATOM	16538	P	A	A	790	213.374	99.029	-28.682	1.00	57.63	A16S
ATOM	16539	O1P	A	A	790	213.286	99.542	-27.283	1.00	78.21	A16S
ATOM	16540	O2P	A	A	790	214.528	99.419	-29.540	1.00	78.21	A16S
ATOM	16541	O5*	A	A	790	213.295	97.442	-28.596	1.00	57.63	A16S
ATOM	16542	C5*	A	A	790	214.421	96.682	-28.147	1.00	57.63	A16S
ATOM	16543	C4*	A	A	790	213.959	95.444	-27.425	1.00	57.63	A16S
ATOM	16544	O4*	A	A	790	213.273	95.809	-26.204	1.00	57.63	A16S
ATOM	16545	C1*	A	A	790	212.193	94.921	-25.978	1.00	57.63	A16S
ATOM	16546	N9	A	A	790	210.961	95.714	-25.990	1.00	78.21	A16S
ATOM	16547	C4	A	A	790	209.810	95.468	-25.282	1.00	78.21	A16S
ATOM	16548	N3	A	A	790	209.574	94.452	-24.438	1.00	78.21	A16S

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ATOM	16549	C2	A	A	790	208.349	94.545	-23.931	1.00	78.21	A16S
ATOM	16550	N1	A	A	790	207.407	95.470	-24.153	1.00	78.21	A16S
ATOM	16551	C6	A	A	790	207.683	96.479	-25.007	1.00	78.21	A16S
ATOM	16552	N6	A	A	790	206.752	97.411	-25.228	1.00	78.21	A16S
ATOM	16553	C5	A	A	790	208.940	96.492	-25.612	1.00	78.21	A16S
ATOM	16554	N7	A	A	790	209.523	97.367	-26.516	1.00	78.21	A16S
ATOM	16555	C8	A	A	790	210.718	96.864	-26.710	1.00	78.21	A16S
ATOM	16556	C2*	A	A	790	212.241	93.852	-27.073	1.00	57.63	A16S
ATOM	16557	O2*	A	A	790	213.000	92.758	-26.607	1.00	57.63	A16S
ATOM	16558	C3*	A	A	790	212.967	94.590	-28.187	1.00	57.63	A16S
ATOM	16559	O3*	A	A	790	213.658	93.725	-29.061	1.00	57.63	A16S
ATOM	16560	P	G	A	791	213.301	93.740	-30.623	1.00	51.53	A16S
ATOM	16561	O1P	G	A	791	214.337	92.928	-31.326	1.00	62.39	A16S
ATOM	16562	O2P	G	A	791	213.035	95.140	-31.058	1.00	62.39	A16S
ATOM	16563	O5*	G	A	791	211.942	92.927	-30.673	1.00	51.53	A16S
ATOM	16564	C5*	G	A	791	211.932	91.546	-30.328	1.00	51.53	A16S
ATOM	16565	C4*	G	A	791	210.525	91.066	-30.195	1.00	51.53	A16S
ATOM	16566	O4*	G	A	791	209.923	91.662	-29.026	1.00	51.53	A16S
ATOM	16567	C1*	G	A	791	208.553	91.911	-29.278	1.00	51.53	A16S
ATOM	16568	N9	G	A	791	208.315	93.342	-29.117	1.00	62.39	A16S
ATOM	16569	C4	G	A	791	207.185	93.930	-28.600	1.00	62.39	A16S
ATOM	16570	N3	G	A	791	206.098	93.283	-28.123	1.00	62.39	A16S
ATOM	16571	C2	G	A	791	205.158	94.122	-27.721	1.00	62.39	A16S
ATOM	16572	N2	G	A	791	204.010	93.638	-27.214	1.00	62.39	A16S
ATOM	16573	N1	G	A	791	205.276	95.492	-27.788	1.00	62.39	A16S
ATOM	16574	C6	G	A	791	206.387	96.177	-28.279	1.00	62.39	A16S
ATOM	16575	O6	G	A	791	206.390	97.413	-28.313	1.00	62.39	A16S
ATOM	16576	C5	G	A	791	207.403	95.287	-28.700	1.00	62.39	A16S
ATOM	16577	N7	G	A	791	208.653	95.546	-29.244	1.00	62.39	A16S
ATOM	16578	C8	G	A	791	209.160	94.367	-29.469	1.00	62.39	A16S
ATOM	16579	C2*	G	A	791	208.241	91.407	-30.688	1.00	51.53	A16S
ATOM	16580	O2*	G	A	791	207.763	90.085	-30.599	1.00	51.53	A16S
ATOM	16581	C3*	G	A	791	209.614	91.452	-31.337	1.00	51.53	A16S
ATOM	16582	O3*	G	A	791	209.756	90.531	-32.392	1.00	51.53	A16S
ATOM	16583	P	A	A	792	209.541	91.021	-33.907	1.00	46.23	A16S
ATOM	16584	O1P	A	A	792	210.328	90.146	-34.815	1.00	68.47	A16S
ATOM	16585	O2P	A	A	792	209.715	92.497	-33.980	1.00	68.47	A16S
ATOM	16586	O5*	A	A	792	208.018	90.673	-34.180	1.00	46.23	A16S
ATOM	16587	C5*	A	A	792	206.987	91.396	-33.517	1.00	46.23	A16S
ATOM	16588	C4*	A	A	792	205.997	91.895	-34.520	1.00	46.23	A16S
ATOM	16589	O4*	A	A	792	205.097	92.769	-33.810	1.00	46.23	A16S
ATOM	16590	C1*	A	A	792	205.205	94.089	-34.289	1.00	46.23	A16S
ATOM	16591	N9	A	A	792	205.217	94.975	-33.119	1.00	68.47	A16S
ATOM	16592	C4	A	A	792	204.106	95.550	-32.539	1.00	68.47	A16S
ATOM	16593	N3	A	A	792	202.817	95.393	-32.903	1.00	68.47	A16S
ATOM	16594	C2	A	A	792	202.028	96.147	-32.158	1.00	68.47	A16S
ATOM	16595	N1	A	A	792	202.350	96.984	-31.166	1.00	68.47	A16S
ATOM	16596	C6	A	A	792	203.653	97.118	-30.823	1.00	68.47	A16S
ATOM	16597	N6	A	A	792	203.977	97.968	-29.846	1.00	68.47	A16S
ATOM	16598	C5	A	A	792	204.589	96.360	-31.526	1.00	68.47	A16S
ATOM	16599	N7	A	A	792	205.970	96.266	-31.433	1.00	68.47	A16S
ATOM	16600	C8	A	A	792	206.294	95.429	-32.390	1.00	68.47	A16S
ATOM	16601	C2*	A	A	792	206.466	94.158	-35.133	1.00	46.23	A16S
ATOM	16602	O2*	A	A	792	206.459	95.209	-36.062	1.00	46.23	A16S
ATOM	16603	C3*	A	A	792	206.608	92.720	-35.634	1.00	46.23	A16S
ATOM	16604	O3*	A	A	792	206.164	92.230	-36.926	1.00	46.23	A16S
ATOM	16605	P	U	A	793	204.775	92.700	-37.600	1.00	55.26	A16S
ATOM	16606	O1P	U	A	793	204.625	91.912	-38.853	1.00	59.20	A16S
ATOM	16607	O2P	U	A	793	204.732	94.171	-37.669	1.00	59.20	A16S
ATOM	16608	O5*	U	A	793	203.620	92.185	-36.631	1.00	55.26	A16S
ATOM	16609	C5*	U	A	793	203.546	90.810	-36.203	1.00	55.26	A16S
ATOM	16610	C4*	U	A	793	202.433	90.075	-36.928	1.00	55.26	A16S
ATOM	16611	O4*	U	A	793	202.429	88.703	-36.448	1.00	55.26	A16S
ATOM	16612	C1*	U	A	793	201.154	88.355	-35.967	1.00	55.26	A16S
ATOM	16613	N1	U	A	793	201.337	87.548	-34.750	1.00	59.20	A16S
ATOM	16614	C6	U	A	793	201.739	88.109	-33.559	1.00	59.20	A16S
ATOM	16615	C2	U	A	793	201.087	86.193	-34.839	1.00	59.20	A16S
ATOM	16616	O2	U	A	793	200.757	85.648	-35.876	1.00	59.20	A16S
ATOM	16617	N3	U	A	793	201.246	85.487	-33.670	1.00	59.20	A16S
ATOM	16618	C4	U	A	793	201.635	85.984	-32.448	1.00	59.20	A16S
ATOM	16619	O4	U	A	793	201.720	85.218	-31.480	1.00	59.20	A16S
ATOM	16620	C5	U	A	793	201.895	87.394	-32.437	1.00	59.20	A16S
ATOM	16621	C2*	U	A	793	200.391	89.655	-35.732	1.00	55.26	A16S
ATOM	16622	O2*	U	A	793	199.017	89.422	-35.964	1.00	55.26	A16S
ATOM	16623	C3*	U	A	793	201.002	90.590	-36.771	1.00	55.26	A16S
ATOM	16624	O3*	U	A	793	200.295	90.443	-38.005	1.00	55.26	A16S
ATOM	16625	P	A	A	794	199.179	91.536	-38.431	1.00	54.07	A16S

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ATOM	16626	O1P	A	A	794	197.873	91.167	-37.800	1.00	60.11	A16S
ATOM	16627	O2P	A	A	794	199.247	91.747	-39.918	1.00	60.11	A16S
ATOM	16628	O5*	A	A	794	199.689	92.866	-37.733	1.00	54.07	A16S
ATOM	16629	C5*	A	A	794	200.196	93.939	-38.514	1.00	54.07	A16S
ATOM	16630	C4*	A	A	794	199.605	95.215	-38.026	1.00	54.07	A16S
ATOM	16631	O4*	A	A	794	199.929	95.335	-36.625	1.00	54.07	A16S
ATOM	16632	C1*	A	A	794	200.159	96.686	-36.314	1.00	54.07	A16S
ATOM	16633	N9	A	A	794	201.535	96.793	-35.847	1.00	60.11	A16S
ATOM	16634	C4	A	A	794	202.032	97.732	-34.983	1.00	60.11	A16S
ATOM	16635	N3	A	A	794	201.350	98.702	-34.356	1.00	60.11	A16S
ATOM	16636	C2	A	A	794	202.169	99.444	-33.621	1.00	60.11	A16S
ATOM	16637	N1	A	A	794	203.487	99.331	-33.452	1.00	60.11	A16S
ATOM	16638	C6	A	A	794	204.134	98.337	-34.090	1.00	60.11	A16S
ATOM	16639	N6	A	A	794	205.447	98.210	-33.914	1.00	60.11	A16S
ATOM	16640	C5	A	A	794	203.384	97.488	-34.901	1.00	60.11	A16S
ATOM	16641	N7	A	A	794	203.731	96.393	-35.670	1.00	60.11	A16S
ATOM	16642	C8	A	A	794	202.598	96.013	-36.201	1.00	60.11	A16S
ATOM	16643	C2*	A	A	794	199.889	97.510	-37.584	1.00	54.07	A16S
ATOM	16644	O2*	A	A	794	198.544	97.942	-37.611	1.00	54.07	A16S
ATOM	16645	C3*	A	A	794	200.124	96.482	-38.675	1.00	54.07	A16S
ATOM	16646	O3*	A	A	794	199.387	96.778	-39.855	1.00	54.07	A16S
ATOM	16647	P	C	A	795	200.083	97.604	-41.051	1.00	40.24	A16S
ATOM	16648	O1P	C	A	795	199.117	97.603	-42.183	1.00	64.89	A16S
ATOM	16649	O2P	C	A	795	201.473	97.127	-41.278	1.00	64.89	A16S
ATOM	16650	O5*	C	A	795	200.140	99.099	-40.493	1.00	40.24	A16S
ATOM	16651	C5*	C	A	795	198.929	99.814	-40.186	1.00	40.24	A16S
ATOM	16652	C4*	C	A	795	199.204	100.942	-39.217	1.00	40.24	A16S
ATOM	16653	O4*	C	A	795	199.787	100.427	-37.996	1.00	40.24	A16S
ATOM	16654	C1*	C	A	795	200.684	101.381	-37.465	1.00	40.24	A16S
ATOM	16655	N1	C	A	795	202.014	100.762	-37.343	1.00	64.89	A16S
ATOM	16656	C6	C	A	795	202.359	99.675	-38.096	1.00	64.89	A16S
ATOM	16657	C2	C	A	795	202.926	101.306	-36.431	1.00	64.89	A16S
ATOM	16658	O2	C	A	795	202.592	102.304	-35.763	1.00	64.89	A16S
ATOM	16659	N3	C	A	795	204.147	100.734	-36.299	1.00	64.89	A16S
ATOM	16660	C4	C	A	795	204.467	99.670	-37.034	1.00	64.89	A16S
ATOM	16661	N4	C	A	795	205.673	99.139	-36.864	1.00	64.89	A16S
ATOM	16662	C5	C	A	795	203.562	99.103	-37.974	1.00	64.89	A16S
ATOM	16663	C2*	C	A	795	200.676	102.602	-38.383	1.00	40.24	A16S
ATOM	16664	O2*	C	A	795	199.776	103.578	-37.885	1.00	40.24	A16S
ATOM	16665	C3*	C	A	795	200.176	102.004	-39.687	1.00	40.24	A16S
ATOM	16666	O3*	C	A	795	199.496	102.977	-40.457	1.00	40.24	A16S
ATOM	16667	P	C	A	796	199.665	102.967	-42.044	1.00	45.38	A16S
ATOM	16668	O1P	C	A	796	198.881	104.102	-42.609	1.00	44.26	A16S
ATOM	16669	O2P	C	A	796	199.346	101.565	-42.467	1.00	44.26	A16S
ATOM	16670	O5*	C	A	796	201.220	103.258	-42.249	1.00	45.38	A16S
ATOM	16671	C5*	C	A	796	201.744	104.605	-42.157	1.00	45.38	A16S
ATOM	16672	C4*	C	A	796	203.199	104.634	-42.572	1.00	45.38	A16S
ATOM	16673	O4*	C	A	796	203.984	103.894	-41.603	1.00	45.38	A16S
ATOM	16674	C1*	C	A	796	205.013	103.171	-42.263	1.00	45.38	A16S
ATOM	16675	N1	C	A	796	204.784	101.726	-42.087	1.00	44.26	A16S
ATOM	16676	C6	C	A	796	203.593	101.248	-41.623	1.00	44.26	A16S
ATOM	16677	C2	C	A	796	205.816	100.844	-42.409	1.00	44.26	A16S
ATOM	16678	O2	C	A	796	206.882	101.303	-42.852	1.00	44.26	A16S
ATOM	16679	N3	C	A	796	205.630	99.520	-42.240	1.00	44.26	A16S
ATOM	16680	C4	C	A	796	204.468	99.069	-41.781	1.00	44.26	A16S
ATOM	16681	N4	C	A	796	204.530	97.757	-41.621	1.00	44.26	A16S
ATOM	16682	C5	C	A	796	203.394	99.941	-41.460	1.00	44.26	A16S
ATOM	16683	C2*	C	A	796	204.957	103.540	-43.737	1.00	45.38	A16S
ATOM	16684	O2*	C	A	796	205.828	104.622	-43.970	1.00	45.38	A16S
ATOM	16685	C3*	C	A	796	203.504	103.937	-43.886	1.00	45.38	A16S
ATOM	16686	O3*	C	A	796	203.318	104.742	-45.021	1.00	45.38	A16S
ATOM	16687	P	C	A	797	202.986	104.029	-46.414	1.00	44.34	A16S
ATOM	16688	O1P	C	A	797	202.769	105.106	-47.428	1.00	38.84	A16S
ATOM	16689	O2P	C	A	797	201.920	103.022	-46.147	1.00	38.84	A16S
ATOM	16690	O5*	C	A	797	204.326	103.253	-46.774	1.00	44.34	A16S
ATOM	16691	C5*	C	A	797	205.491	103.982	-47.202	1.00	44.34	A16S
ATOM	16692	C4*	C	A	797	206.506	103.039	-47.803	1.00	44.34	A16S
ATOM	16693	O4*	C	A	797	206.993	102.133	-46.777	1.00	44.34	A16S
ATOM	16694	C1*	C	A	797	207.235	100.863	-47.343	1.00	44.34	A16S
ATOM	16695	N1	C	A	797	206.383	99.880	-46.670	1.00	38.84	A16S
ATOM	16696	C6	C	A	797	205.273	100.264	-45.983	1.00	38.84	A16S
ATOM	16697	C2	C	A	797	206.717	98.529	-46.762	1.00	38.84	A16S
ATOM	16698	O2	C	A	797	207.749	98.209	-47.354	1.00	38.84	A16S
ATOM	16699	N3	C	A	797	205.916	97.606	-46.206	1.00	38.84	A16S
ATOM	16700	C4	C	A	797	204.818	97.985	-45.569	1.00	38.84	A16S
ATOM	16701	N4	C	A	797	204.032	97.039	-45.079	1.00	38.84	A16S
ATOM	16702	C5	C	A	797	204.469	99.357	-45.420	1.00	38.84	A16S

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ATOM	16703	C2*	C	A	797	206.938	100.952	-48.839	1.00	44.34	A16S
ATOM	16704	O2*	C	A	797	208.136	101.261	-49.506	1.00	44.34	A16S
ATOM	16705	C3*	C	A	797	205.979	102.128	-48.899	1.00	44.34	A16S
ATOM	16706	O3*	C	A	797	205.990	102.762	-50.173	1.00	44.34	A16S
ATOM	16707	P	G	A	798	205.027	102.205	-51.333	1.00	53.16	A16S
ATOM	16708	O1P	G	A	798	205.059	103.150	-52.479	1.00	48.97	A16S
ATOM	16709	O2P	G	A	798	203.722	101.887	-50.707	1.00	48.97	A16S
ATOM	16710	O5*	G	A	798	205.724	100.825	-51.742	1.00	53.16	A16S
ATOM	16711	C5*	G	A	798	207.120	100.790	-52.143	1.00	53.16	A16S
ATOM	16712	C4*	G	A	798	207.529	99.392	-52.561	1.00	53.16	A16S
ATOM	16713	O4*	G	A	798	207.794	98.537	-51.415	1.00	53.16	A16S
ATOM	16714	C1*	G	A	798	207.386	97.205	-51.703	1.00	53.16	A16S
ATOM	16715	N9	G	A	798	206.331	96.844	-50.765	1.00	48.97	A16S
ATOM	16716	C4	G	A	798	205.886	95.584	-50.436	1.00	48.97	A16S
ATOM	16717	N3	G	A	798	206.375	94.417	-50.894	1.00	48.97	A16S
ATOM	16718	C2	G	A	798	205.733	93.375	-50.375	1.00	48.97	A16S
ATOM	16719	N2	G	A	798	206.113	92.133	-50.677	1.00	48.97	A16S
ATOM	16720	N1	G	A	798	204.679	93.472	-49.510	1.00	48.97	A16S
ATOM	16721	C6	G	A	798	204.153	94.668	-49.037	1.00	48.97	A16S
ATOM	16722	O6	G	A	798	203.181	94.659	-48.263	1.00	48.97	A16S
ATOM	16723	C5	G	A	798	204.851	95.785	-49.554	1.00	48.97	A16S
ATOM	16724	N7	G	A	798	204.662	97.135	-49.317	1.00	48.97	A16S
ATOM	16725	C8	G	A	798	205.562	97.722	-50.053	1.00	48.97	A16S
ATOM	16726	C2*	G	A	798	206.869	97.183	-53.143	1.00	53.16	A16S
ATOM	16727	O2*	G	A	798	207.882	96.745	-54.024	1.00	53.16	A16S
ATOM	16728	C3*	G	A	798	206.490	98.643	-53.368	1.00	53.16	A16S
ATOM	16729	O3*	G	A	798	206.549	99.007	-54.732	1.00	53.16	A16S
ATOM	16730	P	G	A	799	205.363	98.560	-55.713	1.00	44.90	A16S
ATOM	16731	O1P	G	A	799	205.882	98.711	-57.118	1.00	56.94	A16S
ATOM	16732	O2P	G	A	799	204.125	99.290	-55.302	1.00	56.94	A16S
ATOM	16733	O5*	G	A	799	205.209	97.004	-55.387	1.00	44.90	A16S
ATOM	16734	C5*	G	A	799	204.096	96.250	-55.867	1.00	44.90	A16S
ATOM	16735	C4*	G	A	799	204.343	94.780	-55.664	1.00	44.90	A16S
ATOM	16736	O4*	G	A	799	204.701	94.524	-54.287	1.00	44.90	A16S
ATOM	16737	C1*	G	A	799	204.108	93.307	-53.860	1.00	44.90	A16S
ATOM	16738	N9	G	A	799	203.195	93.592	-52.759	1.00	56.94	A16S
ATOM	16739	C4	G	A	799	202.519	92.667	-51.999	1.00	56.94	A16S
ATOM	16740	N3	G	A	799	202.614	91.327	-52.108	1.00	56.94	A16S
ATOM	16741	C2	G	A	799	201.828	90.708	-51.245	1.00	56.94	A16S
ATOM	16742	N2	G	A	799	201.803	89.370	-51.191	1.00	56.94	A16S
ATOM	16743	N1	G	A	799	201.010	91.355	-50.364	1.00	56.94	A16S
ATOM	16744	C6	G	A	799	200.890	92.731	-50.250	1.00	56.94	A16S
ATOM	16745	O6	G	A	799	200.104	93.212	-49.438	1.00	56.94	A16S
ATOM	16746	C5	G	A	799	201.734	93.402	-51.147	1.00	56.94	A16S
ATOM	16747	N7	G	A	799	201.928	94.758	-51.345	1.00	56.94	A16S
ATOM	16748	C8	G	A	799	202.808	94.823	-52.304	1.00	56.94	A16S
ATOM	16749	C2*	G	A	799	203.337	92.713	-55.040	1.00	44.90	A16S
ATOM	16750	O2*	G	A	799	204.084	91.705	-55.679	1.00	44.90	A16S
ATOM	16751	C3*	G	A	799	203.112	93.935	-55.911	1.00	44.90	A16S
ATOM	16752	O3*	G	A	799	203.041	93.567	-57.264	1.00	44.90	A16S
ATOM	16753	P	G	A	800	201.614	93.427	-57.968	1.00	40.29	A16S
ATOM	16754	O1P	G	A	800	201.843	92.680	-59.238	1.00	46.12	A16S
ATOM	16755	O2P	G	A	800	201.006	94.787	-58.008	1.00	46.12	A16S
ATOM	16756	O5*	G	A	800	200.803	92.439	-57.022	1.00	40.29	A16S
ATOM	16757	C5*	G	A	800	201.134	91.053	-57.003	1.00	40.29	A16S
ATOM	16758	C4*	G	A	800	200.281	90.326	-56.002	1.00	40.29	A16S
ATOM	16759	O4*	G	A	800	200.553	90.845	-54.678	1.00	40.29	A16S
ATOM	16760	C1*	G	A	800	199.353	90.899	-53.935	1.00	40.29	A16S
ATOM	16761	N9	G	A	800	199.122	92.305	-53.626	1.00	46.12	A16S
ATOM	16762	C4	G	A	800	198.493	92.817	-52.523	1.00	46.12	A16S
ATOM	16763	N3	G	A	800	197.942	92.102	-51.524	1.00	46.12	A16S
ATOM	16764	C2	G	A	800	197.410	92.876	-50.601	1.00	46.12	A16S
ATOM	16765	N2	G	A	800	196.813	92.320	-49.546	1.00	46.12	A16S
ATOM	16766	N1	G	A	800	197.426	94.247	-50.646	1.00	46.12	A16S
ATOM	16767	C6	G	A	800	197.995	95.009	-51.660	1.00	46.12	A16S
ATOM	16768	O6	G	A	800	197.969	96.253	-51.599	1.00	46.12	A16S
ATOM	16769	C5	G	A	800	198.557	94.186	-52.667	1.00	46.12	A16S
ATOM	16770	N7	G	A	800	199.201	94.526	-53.850	1.00	46.12	A16S
ATOM	16771	C8	G	A	800	199.514	93.381	-54.385	1.00	46.12	A16S
ATOM	16772	C2*	G	A	800	198.248	90.246	-54.780	1.00	40.29	A16S
ATOM	16773	O2*	G	A	800	198.123	88.868	-54.455	1.00	40.29	A16S
ATOM	16774	C3*	G	A	800	198.778	90.448	-56.196	1.00	40.29	A16S
ATOM	16775	O3*	G	A	800	198.322	89.421	-57.078	1.00	40.29	A16S
ATOM	16776	P	U	A	801	197.037	89.667	-58.016	1.00	42.22	A16S
ATOM	16777	O1P	U	A	801	197.325	88.979	-59.304	1.00	50.34	A16S
ATOM	16778	O2P	U	A	801	196.690	91.105	-58.042	1.00	50.34	A16S
ATOM	16779	O5*	U	A	801	195.904	88.815	-57.284	1.00	42.22	A16S

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ATOM	16780	C5*	U	A	801	195.905	87.396	-57.456	1.00	42.22	A16S
ATOM	16781	C4*	U	A	801	195.009	86.707	-56.462	1.00	42.22	A16S
ATOM	16782	O4*	U	A	801	195.558	86.792	-55.127	1.00	42.22	A16S
ATOM	16783	C1*	U	A	801	194.503	86.741	-54.184	1.00	42.22	A16S
ATOM	16784	N1	U	A	801	194.479	88.001	-53.433	1.00	50.34	A16S
ATOM	16785	C6	U	A	801	195.025	89.151	-53.950	1.00	50.34	A16S
ATOM	16786	C2	U	A	801	193.858	87.997	-52.196	1.00	50.34	A16S
ATOM	16787	O2	U	A	801	193.400	86.995	-51.687	1.00	50.34	A16S
ATOM	16788	N3	U	A	801	193.802	89.212	-51.579	1.00	50.34	A16S
ATOM	16789	C4	U	A	801	194.304	90.401	-52.053	1.00	50.34	A16S
ATOM	16790	O4	U	A	801	194.127	91.428	-51.403	1.00	50.34	A16S
ATOM	16791	C5	U	A	801	194.961	90.316	-53.321	1.00	50.34	A16S
ATOM	16792	C2*	U	A	801	193.202	86.584	-54.968	1.00	42.22	A16S
ATOM	16793	O2*	U	A	801	192.927	85.206	-55.068	1.00	42.22	A16S
ATOM	16794	C3*	U	A	801	193.582	87.187	-56.311	1.00	42.22	A16S
ATOM	16795	O3*	U	A	801	192.742	86.714	-57.344	1.00	42.22	A16S
ATOM	16796	P	A	A	802	191.407	87.533	-57.700	1.00	48.16	A16S
ATOM	16797	O1P	A	A	802	190.802	86.927	-58.925	1.00	45.36	A16S
ATOM	16798	O2P	A	A	802	191.755	88.980	-57.687	1.00	45.36	A16S
ATOM	16799	O5*	A	A	802	190.440	87.234	-56.465	1.00	48.16	A16S
ATOM	16800	C5*	A	A	802	189.973	85.894	-56.204	1.00	48.16	A16S
ATOM	16801	C4*	A	A	802	189.148	85.857	-54.938	1.00	48.16	A16S
ATOM	16802	O4*	A	A	802	189.960	86.261	-53.808	1.00	48.16	A16S
ATOM	16803	C1*	A	A	802	189.176	87.000	-52.900	1.00	48.16	A16S
ATOM	16804	N9	A	A	802	189.710	88.357	-52.869	1.00	45.36	A16S
ATOM	16805	C4	A	A	802	189.544	89.282	-51.865	1.00	45.36	A16S
ATOM	16806	N3	A	A	802	188.876	89.120	-50.709	1.00	45.36	A16S
ATOM	16807	C2	A	A	802	188.935	90.228	-49.983	1.00	45.36	A16S
ATOM	16808	N1	A	A	802	189.538	91.395	-50.258	1.00	45.36	A16S
ATOM	16809	C6	A	A	802	190.190	91.526	-51.430	1.00	45.36	A16S
ATOM	16810	N6	A	A	802	190.773	92.692	-51.711	1.00	45.36	A16S
ATOM	16811	C5	A	A	802	190.210	90.422	-52.288	1.00	45.36	A16S
ATOM	16812	N7	A	A	802	190.789	90.221	-53.531	1.00	45.36	A16S
ATOM	16813	C8	A	A	802	190.467	88.984	-53.831	1.00	45.36	A16S
ATOM	16814	C2*	A	A	802	187.737	86.987	-53.416	1.00	48.16	A16S
ATOM	16815	O2*	A	A	802	187.017	85.907	-52.854	1.00	48.16	A16S
ATOM	16816	C3*	A	A	802	187.949	86.784	-54.903	1.00	48.16	A16S
ATOM	16817	O3*	A	A	802	186.809	86.178	-55.492	1.00	48.16	A16S
ATOM	16818	P	G	A	803	185.915	87.016	-56.531	1.00	40.49	A16S
ATOM	16819	O1P	G	A	803	184.660	86.241	-56.716	1.00	50.38	A16S
ATOM	16820	O2P	G	A	803	186.746	87.386	-57.722	1.00	50.38	A16S
ATOM	16821	O5*	G	A	803	185.574	88.359	-55.751	1.00	40.49	A16S
ATOM	16822	C5*	G	A	803	184.809	88.323	-54.542	1.00	40.49	A16S
ATOM	16823	C4*	G	A	803	184.991	89.604	-53.784	1.00	40.49	A16S
ATOM	16824	O4*	G	A	803	186.411	89.795	-53.570	1.00	40.49	A16S
ATOM	16825	C1*	G	A	803	186.720	91.170	-53.639	1.00	40.49	A16S
ATOM	16826	N9	G	A	803	187.667	91.381	-54.730	1.00	50.38	A16S
ATOM	16827	C4	G	A	803	188.514	92.442	-54.838	1.00	50.38	A16S
ATOM	16828	N3	G	A	803	188.634	93.436	-53.944	1.00	50.38	A16S
ATOM	16829	C2	G	A	803	189.524	94.325	-54.317	1.00	50.38	A16S
ATOM	16830	N2	G	A	803	189.790	95.365	-53.521	1.00	50.38	A16S
ATOM	16831	N1	G	A	803	190.227	94.254	-55.489	1.00	50.38	A16S
ATOM	16832	C6	G	A	803	190.117	93.238	-56.426	1.00	50.38	A16S
ATOM	16833	O6	G	A	803	190.800	93.275	-57.449	1.00	50.38	A16S
ATOM	16834	C5	G	A	803	189.176	92.266	-56.029	1.00	50.38	A16S
ATOM	16835	N7	G	A	803	188.764	91.098	-56.656	1.00	50.38	A16S
ATOM	16836	C8	G	A	803	187.872	90.599	-55.846	1.00	50.38	A16S
ATOM	16837	C2*	G	A	803	185.410	91.930	-53.855	1.00	40.49	A16S
ATOM	16838	O2*	G	A	803	184.887	92.299	-52.597	1.00	40.49	A16S
ATOM	16839	C3*	G	A	803	184.543	90.865	-54.502	1.00	40.49	A16S
ATOM	16840	O3*	G	A	803	183.165	91.120	-54.292	1.00	40.49	A16S
ATOM	16841	P	U	A	804	182.305	91.840	-55.447	1.00	40.23	A16S
ATOM	16842	O1P	U	A	804	180.943	92.012	-54.876	1.00	51.44	A16S
ATOM	16843	O2P	U	A	804	182.472	91.137	-56.761	1.00	51.44	A16S
ATOM	16844	O5*	U	A	804	182.944	93.292	-55.575	1.00	40.23	A16S
ATOM	16845	C5*	U	A	804	182.627	94.299	-54.613	1.00	40.23	A16S
ATOM	16846	C4*	U	A	804	183.532	95.484	-54.776	1.00	40.23	A16S
ATOM	16847	O4*	U	A	804	184.911	95.033	-54.774	1.00	40.23	A16S
ATOM	16848	C1*	U	A	804	185.687	95.884	-55.596	1.00	40.23	A16S
ATOM	16849	N1	U	A	804	186.374	95.077	-56.621	1.00	51.44	A16S
ATOM	16850	C6	U	A	804	185.994	93.795	-56.907	1.00	51.44	A16S
ATOM	16851	C2	U	A	804	187.429	95.669	-57.301	1.00	51.44	A16S
ATOM	16852	O2	U	A	804	187.816	96.793	-57.077	1.00	51.44	A16S
ATOM	16853	N3	U	A	804	188.019	94.893	-58.254	1.00	51.44	A16S
ATOM	16854	C4	U	A	804	187.686	93.613	-58.595	1.00	51.44	A16S
ATOM	16855	O4	U	A	804	188.321	93.047	-59.489	1.00	51.44	A16S
ATOM	16856	C5	U	A	804	186.597	93.061	-57.846	1.00	51.44	A16S

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ATOM	16857	C2*	U	A	804	184.747	96.943	-56.180	1.00	40.23	A16S
ATOM	16858	O2*	U	A	804	184.781	98.116	-55.388	1.00	40.23	A16S
ATOM	16859	C3*	U	A	804	183.400	96.247	-56.079	1.00	40.23	A16S
ATOM	16860	O3*	U	A	804	182.317	97.166	-56.056	1.00	40.23	A16S
ATOM	16861	P	C	A	805	180.984	96.826	-56.886	1.00	49.95	A16S
ATOM	16862	O1P	C	A	805	180.085	98.015	-56.854	1.00	46.23	A16S
ATOM	16863	O2P	C	A	805	180.498	95.496	-56.393	1.00	46.23	A16S
ATOM	16864	O5*	C	A	805	181.476	96.678	-58.385	1.00	49.95	A16S
ATOM	16865	C5*	C	A	805	181.940	97.824	-59.085	1.00	49.95	A16S
ATOM	16866	C4*	C	A	805	182.066	97.520	-60.546	1.00	49.95	A16S
ATOM	16867	O4*	C	A	805	183.211	96.661	-60.785	1.00	49.95	A16S
ATOM	16868	C1*	C	A	805	182.928	95.784	-61.859	1.00	49.95	A16S
ATOM	16869	N1	C	A	805	182.992	94.407	-61.351	1.00	46.23	A16S
ATOM	16870	C6	C	A	805	182.882	94.146	-60.015	1.00	46.23	A16S
ATOM	16871	C2	C	A	805	183.159	93.369	-62.255	1.00	46.23	A16S
ATOM	16872	O2	C	A	805	183.278	93.643	-63.458	1.00	46.23	A16S
ATOM	16873	N3	C	A	805	183.191	92.093	-61.802	1.00	46.23	A16S
ATOM	16874	C4	C	A	805	183.063	91.847	-60.495	1.00	46.23	A16S
ATOM	16875	N4	C	A	805	183.072	90.577	-60.085	1.00	46.23	A16S
ATOM	16876	C5	C	A	805	182.912	92.892	-59.548	1.00	46.23	A16S
ATOM	16877	C2*	C	A	805	181.538	96.144	-62.385	1.00	49.95	A16S
ATOM	16878	O2*	C	A	805	181.666	97.108	-63.414	1.00	49.95	A16S
ATOM	16879	C3*	C	A	805	180.903	96.767	-61.152	1.00	49.95	A16S
ATOM	16880	O3*	C	A	805	179.818	97.620	-61.450	1.00	49.95	A16S
ATOM	16881	P	C	A	806	178.325	97.079	-61.222	1.00	63.48	A16S
ATOM	16882	O1P	C	A	806	177.430	98.271	-61.212	1.00	41.63	A16S
ATOM	16883	O2P	C	A	806	178.345	96.145	-60.051	1.00	41.63	A16S
ATOM	16884	O5*	C	A	806	178.034	96.209	-62.522	1.00	63.48	A16S
ATOM	16885	C5*	C	A	806	178.198	96.773	-63.834	1.00	63.48	A16S
ATOM	16886	C4*	C	A	806	177.965	95.717	-64.882	1.00	63.48	A16S
ATOM	16887	O4*	C	A	806	179.077	94.792	-64.917	1.00	63.48	A16S
ATOM	16888	C1*	C	A	806	178.605	93.487	-65.205	1.00	63.48	A16S
ATOM	16889	N1	C	A	806	179.005	92.591	-64.107	1.00	41.63	A16S
ATOM	16890	C6	C	A	806	179.466	93.091	-62.919	1.00	41.63	A16S
ATOM	16891	C2	C	A	806	178.906	91.208	-64.300	1.00	41.63	A16S
ATOM	16892	O2	C	A	806	178.493	90.780	-65.393	1.00	41.63	A16S
ATOM	16893	N3	C	A	806	179.266	90.374	-63.295	1.00	41.63	A16S
ATOM	16894	C4	C	A	806	179.716	90.875	-62.140	1.00	41.63	A16S
ATOM	16895	N4	C	A	806	180.063	90.018	-61.179	1.00	41.63	A16S
ATOM	16896	C5	C	A	806	179.830	92.278	-61.920	1.00	41.63	A16S
ATOM	16897	C2*	C	A	806	177.088	93.561	-65.382	1.00	63.48	A16S
ATOM	16898	O2*	C	A	806	176.758	93.624	-66.754	1.00	63.48	A16S
ATOM	16899	C3*	C	A	806	176.756	94.841	-64.631	1.00	63.48	A16S
ATOM	16900	O3*	C	A	806	175.565	95.443	-65.082	1.00	63.48	A16S
ATOM	16901	P	A	A	807	174.181	95.045	-64.380	1.00	60.57	A16S
ATOM	16902	O1P	A	A	807	173.109	95.843	-65.064	1.00	61.91	A16S
ATOM	16903	O2P	A	A	807	174.343	95.137	-62.891	1.00	61.91	A16S
ATOM	16904	O5*	A	A	807	174.016	93.512	-64.781	1.00	60.57	A16S
ATOM	16905	C5*	A	A	807	173.860	93.150	-66.155	1.00	60.57	A16S
ATOM	16906	C4*	A	A	807	173.628	91.677	-66.282	1.00	60.57	A16S
ATOM	16907	O4*	A	A	807	174.842	90.962	-65.991	1.00	60.57	A16S
ATOM	16908	C1*	A	A	807	174.519	89.680	-65.491	1.00	60.57	A16S
ATOM	16909	N9	A	A	807	175.283	89.450	-64.271	1.00	61.91	A16S
ATOM	16910	C4	A	A	807	175.533	88.216	-63.742	1.00	61.91	A16S
ATOM	16911	N3	A	A	807	175.135	87.037	-64.235	1.00	61.91	A16S
ATOM	16912	C2	A	A	807	175.549	86.046	-63.456	1.00	61.91	A16S
ATOM	16913	N1	A	A	807	176.263	86.098	-62.323	1.00	61.91	A16S
ATOM	16914	C6	A	A	807	176.649	87.306	-61.859	1.00	61.91	A16S
ATOM	16915	N6	A	A	807	177.360	87.360	-60.732	1.00	61.91	A16S
ATOM	16916	C5	A	A	807	176.273	88.438	-62.598	1.00	61.91	A16S
ATOM	16917	N7	A	A	807	176.492	89.795	-62.409	1.00	61.91	A16S
ATOM	16918	C8	A	A	807	175.886	90.352	-63.428	1.00	61.91	A16S
ATOM	16919	C2*	A	A	807	173.005	89.614	-65.283	1.00	60.57	A16S
ATOM	16920	O2*	A	A	807	172.398	88.869	-66.319	1.00	60.57	A16S
ATOM	16921	C3*	A	A	807	172.627	91.086	-65.319	1.00	60.57	A16S
ATOM	16922	O3*	A	A	807	171.319	91.272	-65.784	1.00	60.57	A16S
ATOM	16923	P	C	A	808	170.152	91.514	-64.723	1.00	53.11	A16S
ATOM	16924	O1P	C	A	808	168.967	91.981	-65.497	1.00	56.01	A16S
ATOM	16925	O2P	C	A	808	170.714	92.383	-63.640	1.00	56.01	A16S
ATOM	16926	O5*	C	A	808	169.869	90.052	-64.143	1.00	53.11	A16S
ATOM	16927	C5*	C	A	808	169.268	89.042	-64.968	1.00	53.11	A16S
ATOM	16928	C4*	C	A	808	169.372	87.693	-64.309	1.00	53.11	A16S
ATOM	16929	O4*	C	A	808	170.762	87.279	-64.248	1.00	53.11	A16S
ATOM	16930	C1*	C	A	808	170.967	86.468	-63.099	1.00	53.11	A16S
ATOM	16931	N1	C	A	808	171.981	87.087	-62.234	1.00	56.01	A16S
ATOM	16932	C6	C	A	808	172.100	88.446	-62.141	1.00	56.01	A16S
ATOM	16933	C2	C	A	808	172.803	86.253	-61.472	1.00	56.01	A16S

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ATOM	16934	O2	C	A	808	172.709	85.022	-61.619	1.00	56.01	A16S
ATOM	16935	N3	C	A	808	173.683	86.806	-60.604	1.00	56.01	A16S
ATOM	16936	C4	C	A	808	173.772	88.133	-60.500	1.00	56.01	A16S
ATOM	16937	N4	C	A	808	174.643	88.638	-59.620	1.00	56.01	A16S
ATOM	16938	C5	C	A	808	172.972	89.005	-61.294	1.00	56.01	A16S
ATOM	16939	C2*	C	A	808	169.646	86.387	-62.345	1.00	53.11	A16S
ATOM	16940	O2*	C	A	808	168.968	85.196	-62.664	1.00	53.11	A16S
ATOM	16941	C3*	C	A	808	168.926	87.619	-62.862	1.00	53.11	A16S
ATOM	16942	O3*	C	A	808	167.534	87.506	-62.678	1.00	53.11	A16S
ATOM	16943	P	G	A	809	166.892	88.074	-61.316	1.00	52.74	A16S
ATOM	16944	O1P	G	A	809	165.416	88.085	-61.504	1.00	47.60	A16S
ATOM	16945	O2P	G	A	809	167.608	89.348	-60.994	1.00	47.60	A16S
ATOM	16946	O5*	G	A	809	167.306	87.003	-60.203	1.00	52.74	A16S
ATOM	16947	C5*	G	A	809	166.805	85.674	-60.270	1.00	52.74	A16S
ATOM	16948	C4*	G	A	809	167.605	84.755	-59.387	1.00	52.74	A16S
ATOM	16949	O4*	G	A	809	169.021	84.878	-59.686	1.00	52.74	A16S
ATOM	16950	C1*	G	A	809	169.779	84.495	-58.542	1.00	52.74	A16S
ATOM	16951	N9	G	A	809	170.702	85.571	-58.172	1.00	47.60	A16S
ATOM	16952	C4	G	A	809	171.719	85.478	-57.244	1.00	47.60	A16S
ATOM	16953	N3	G	A	809	172.038	84.384	-56.530	1.00	47.60	A16S
ATOM	16954	C2	G	A	809	173.055	84.604	-55.715	1.00	47.60	A16S
ATOM	16955	N2	G	A	809	173.497	83.611	-54.932	1.00	47.60	A16S
ATOM	16956	N1	G	A	809	173.707	85.803	-55.608	1.00	47.60	A16S
ATOM	16957	C6	G	A	809	173.396	86.944	-56.330	1.00	47.60	A16S
ATOM	16958	O6	G	A	809	174.044	87.976	-56.151	1.00	47.60	A16S
ATOM	16959	C5	G	A	809	172.306	86.724	-57.214	1.00	47.60	A16S
ATOM	16960	N7	G	A	809	171.681	87.585	-58.106	1.00	47.60	A16S
ATOM	16961	C8	G	A	809	170.737	86.861	-58.652	1.00	47.60	A16S
ATOM	16962	C2*	G	A	809	168.781	84.205	-57.423	1.00	52.74	A16S
ATOM	16963	O2*	G	A	809	168.480	82.823	-57.375	1.00	52.74	A16S
ATOM	16964	C3*	G	A	809	167.569	84.987	-57.892	1.00	52.74	A16S
ATOM	16965	O3*	G	A	809	166.414	84.499	-57.261	1.00	52.74	A16S
ATOM	16966	P	C	A	810	165.811	85.327	-56.023	1.00	50.80	A16S
ATOM	16967	O1P	C	A	810	164.545	84.624	-55.650	1.00	36.78	A16S
ATOM	16968	O2P	C	A	810	165.776	86.770	-56.411	1.00	36.78	A16S
ATOM	16969	O5*	C	A	810	166.899	85.192	-54.849	1.00	50.80	A16S
ATOM	16970	C5*	C	A	810	167.012	83.961	-54.106	1.00	50.80	A16S
ATOM	16971	C4*	C	A	810	168.247	83.927	-53.216	1.00	50.80	A16S
ATOM	16972	O4*	C	A	810	169.439	84.395	-53.897	1.00	50.80	A16S
ATOM	16973	C1*	C	A	810	170.444	84.659	-52.935	1.00	50.80	A16S
ATOM	16974	N1	C	A	810	171.048	85.986	-53.168	1.00	36.78	A16S
ATOM	16975	C6	C	A	810	170.541	86.855	-54.090	1.00	36.78	A16S
ATOM	16976	C2	C	A	810	172.160	86.353	-52.399	1.00	36.78	A16S
ATOM	16977	O2	C	A	810	172.610	85.546	-51.585	1.00	36.78	A16S
ATOM	16978	N3	C	A	810	172.711	87.571	-52.556	1.00	36.78	A16S
ATOM	16979	C4	C	A	810	172.200	88.414	-53.440	1.00	36.78	A16S
ATOM	16980	N4	C	A	810	172.761	89.606	-53.548	1.00	36.78	A16S
ATOM	16981	C5	C	A	810	171.081	88.071	-54.255	1.00	36.78	A16S
ATOM	16982	C2*	C	A	810	169.773	84.582	-51.568	1.00	50.80	A16S
ATOM	16983	O2*	C	A	810	170.052	83.296	-51.053	1.00	50.80	A16S
ATOM	16984	C3*	C	A	810	168.296	84.721	-51.927	1.00	50.80	A16S
ATOM	16985	O3*	C	A	810	167.503	84.123	-50.913	1.00	50.80	A16S
ATOM	16986	P	C	A	811	167.016	85.003	-49.649	1.00	36.95	A16S
ATOM	16987	O1P	C	A	811	166.391	84.032	-48.688	1.00	36.75	A16S
ATOM	16988	O2P	C	A	811	166.247	86.201	-50.108	1.00	36.75	A16S
ATOM	16989	O5*	C	A	811	168.366	85.525	-48.982	1.00	36.95	A16S
ATOM	16990	C5*	C	A	811	169.128	84.672	-48.105	1.00	36.95	A16S
ATOM	16991	C4*	C	A	811	170.310	85.427	-47.564	1.00	36.95	A16S
ATOM	16992	O4*	C	A	811	170.976	86.050	-48.676	1.00	36.95	A16S
ATOM	16993	C1*	C	A	811	171.548	87.255	-48.258	1.00	36.95	A16S
ATOM	16994	N1	C	A	811	171.219	88.286	-49.218	1.00	36.75	A16S
ATOM	16995	C6	C	A	811	170.177	88.146	-50.086	1.00	36.75	A16S
ATOM	16996	C2	C	A	811	171.999	89.424	-49.229	1.00	36.75	A16S
ATOM	16997	O2	C	A	811	172.931	89.507	-48.415	1.00	36.75	A16S
ATOM	16998	N3	C	A	811	171.729	90.409	-50.111	1.00	36.75	A16S
ATOM	16999	C4	C	A	811	170.709	90.270	-50.960	1.00	36.75	A16S
ATOM	17000	N4	C	A	811	170.468	91.267	-51.816	1.00	36.75	A16S
ATOM	17001	C5	C	A	811	169.887	89.104	-50.967	1.00	36.75	A16S
ATOM	17002	C2*	C	A	811	171.107	87.562	-46.833	1.00	36.95	A16S
ATOM	17003	O2*	C	A	811	172.228	87.396	-45.998	1.00	36.95	A16S
ATOM	17004	C3*	C	A	811	169.967	86.566	-46.624	1.00	36.95	A16S
ATOM	17005	O3*	C	A	811	169.997	86.040	-45.308	1.00	36.95	A16S
ATOM	17006	P	C	A	812	168.830	86.391	-44.269	1.00	50.09	A16S
ATOM	17007	O1P	C	A	812	169.373	85.915	-42.962	1.00	37.97	A16S
ATOM	17008	O2P	C	A	812	167.521	85.870	-44.758	1.00	37.97	A16S
ATOM	17009	O5*	C	A	812	168.768	87.982	-44.280	1.00	50.09	A16S
ATOM	17010	C5*	C	A	812	169.347	88.750	-43.217	1.00	50.09	A16S

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ATOM	17011	C4*	C	A	812	168.937	90.191	-43.349	1.00	50.09	A16S
ATOM	17012	O4*	C	A	812	169.276	90.601	-44.689	1.00	50.09	A16S
ATOM	17013	C1*	C	A	812	168.371	91.579	-45.123	1.00	50.09	A16S
ATOM	17014	N1	C	A	812	168.032	91.322	-46.522	1.00	37.97	A16S
ATOM	17015	C6	C	A	812	167.348	90.207	-46.882	1.00	37.97	A16S
ATOM	17016	C2	C	A	812	168.441	92.254	-47.502	1.00	37.97	A16S
ATOM	17017	O2	C	A	812	169.080	93.275	-47.155	1.00	37.97	A16S
ATOM	17018	N3	C	A	812	168.144	92.021	-48.794	1.00	37.97	A16S
ATOM	17019	C4	C	A	812	167.489	90.920	-49.131	1.00	37.97	A16S
ATOM	17020	N4	C	A	812	167.245	90.718	-50.424	1.00	37.97	A16S
ATOM	17021	C5	C	A	812	167.060	89.967	-48.163	1.00	37.97	A16S
ATOM	17022	C2*	C	A	812	167.241	91.724	-44.101	1.00	50.09	A16S
ATOM	17023	O2*	C	A	812	167.477	92.947	-43.446	1.00	50.09	A16S
ATOM	17024	C3*	C	A	812	167.447	90.492	-43.217	1.00	50.09	A16S
ATOM	17025	O3*	C	A	812	167.068	90.559	-41.809	1.00	50.09	A16S
ATOM	17026	P	U	A	813	166.990	91.973	-40.991	1.00	47.18	A16S
ATOM	17027	O1P	U	A	813	166.689	91.533	-39.591	1.00	46.45	A16S
ATOM	17028	O2P	U	A	813	166.092	92.992	-41.636	1.00	46.45	A16S
ATOM	17029	O5*	U	A	813	168.488	92.515	-40.966	1.00	47.18	A16S
ATOM	17030	C5*	U	A	813	169.487	91.756	-40.293	1.00	47.18	A16S
ATOM	17031	C4*	U	A	813	170.807	92.466	-40.329	1.00	47.18	A16S
ATOM	17032	O4*	U	A	813	171.300	92.549	-41.682	1.00	47.18	A16S
ATOM	17033	C1*	U	A	813	172.132	93.677	-41.807	1.00	47.18	A16S
ATOM	17034	N1	U	A	813	171.681	94.468	-42.956	1.00	46.45	A16S
ATOM	17035	C6	U	A	813	170.426	94.333	-43.478	1.00	46.45	A16S
ATOM	17036	C2	U	A	813	172.580	95.352	-43.500	1.00	46.45	A16S
ATOM	17037	O2	U	A	813	173.712	95.500	-43.062	1.00	46.45	A16S
ATOM	17038	N3	U	A	813	172.119	96.054	-44.581	1.00	46.45	A16S
ATOM	17039	C4	U	A	813	170.885	95.954	-45.169	1.00	46.45	A16S
ATOM	17040	O4	U	A	813	170.663	96.567	-46.219	1.00	46.45	A16S
ATOM	17041	C5	U	A	813	170.008	95.023	-44.539	1.00	46.45	A16S
ATOM	17042	C2*	U	A	813	172.117	94.423	-40.476	1.00	47.18	A16S
ATOM	17043	O2*	U	A	813	173.262	94.029	-39.746	1.00	47.18	A16S
ATOM	17044	C3*	U	A	813	170.841	93.892	-39.833	1.00	47.18	A16S
ATOM	17045	O3*	U	A	813	170.943	93.894	-38.423	1.00	47.18	A16S
ATOM	17046	P	A	A	814	170.549	95.216	-37.597	1.00	41.45	A16S
ATOM	17047	O1P	A	A	814	169.154	95.643	-37.953	1.00	31.40	A16S
ATOM	17048	O2P	A	A	814	170.903	94.885	-36.181	1.00	31.40	A16S
ATOM	17049	O5*	A	A	814	171.544	96.349	-38.116	1.00	41.45	A16S
ATOM	17050	C5*	A	A	814	172.820	96.510	-37.500	1.00	41.45	A16S
ATOM	17051	C4*	A	A	814	173.466	97.789	-37.942	1.00	41.45	A16S
ATOM	17052	O4*	A	A	814	173.900	97.693	-39.310	1.00	41.45	A16S
ATOM	17053	C1*	A	A	814	173.888	98.974	-39.893	1.00	41.45	A16S
ATOM	17054	N9	A	A	814	173.088	98.909	-41.107	1.00	31.40	A16S
ATOM	17055	C4	A	A	814	173.197	99.736	-42.197	1.00	31.40	A16S
ATOM	17056	N3	A	A	814	174.080	100.733	-42.380	1.00	31.40	A16S
ATOM	17057	C2	A	A	814	173.861	101.338	-43.544	1.00	31.40	A16S
ATOM	17058	N1	A	A	814	172.923	101.087	-44.466	1.00	31.40	A16S
ATOM	17059	C6	A	A	814	172.044	100.084	-44.232	1.00	31.40	A16S
ATOM	17060	N6	A	A	814	171.062	99.848	-45.118	1.00	31.40	A16S
ATOM	17061	C5	A	A	814	172.191	99.352	-43.057	1.00	31.40	A16S
ATOM	17062	N7	A	A	814	171.490	98.270	-42.547	1.00	31.40	A16S
ATOM	17063	C8	A	A	814	172.062	98.043	-41.392	1.00	31.40	A16S
ATOM	17064	C2*	A	A	814	173.337	99.956	-38.860	1.00	41.45	A16S
ATOM	17065	O2*	A	A	814	174.438	100.589	-38.248	1.00	41.45	A16S
ATOM	17066	C3*	A	A	814	172.610	99.026	-37.899	1.00	41.45	A16S
ATOM	17067	O3*	A	A	814	172.616	99.513	-36.574	1.00	41.45	A16S
ATOM	17068	P	A	A	815	171.477	100.544	-36.093	1.00	31.32	A16S
ATOM	17069	O1P	A	A	815	170.234	100.406	-36.958	1.00	26.04	A16S
ATOM	17070	O2P	A	A	815	171.366	100.406	-34.594	1.00	26.04	A16S
ATOM	17071	O5*	A	A	815	172.139	101.956	-36.397	1.00	31.32	A16S
ATOM	17072	C5*	A	A	815	173.191	102.445	-35.575	1.00	31.32	A16S
ATOM	17073	C4*	A	A	815	173.647	103.760	-36.097	1.00	31.32	A16S
ATOM	17074	O4*	A	A	815	174.490	104.415	-35.126	1.00	31.32	A16S
ATOM	17075	C1*	A	A	815	175.677	104.816	-35.750	1.00	31.32	A16S
ATOM	17076	N9	A	A	815	176.751	104.741	-34.778	1.00	26.04	A16S
ATOM	17077	C4	A	A	815	177.496	105.809	-34.371	1.00	26.04	A16S
ATOM	17078	N3	A	A	815	177.373	107.079	-34.780	1.00	26.04	A16S
ATOM	17079	C2	A	A	815	178.244	107.848	-34.149	1.00	26.04	A16S
ATOM	17080	N1	A	A	815	179.163	107.506	-33.236	1.00	26.04	A16S
ATOM	17081	C6	A	A	815	179.264	106.210	-32.874	1.00	26.04	A16S
ATOM	17082	N6	A	A	815	180.206	105.853	-32.008	1.00	26.04	A16S
ATOM	17083	C5	A	A	815	178.387	105.314	-33.442	1.00	26.04	A16S
ATOM	17084	N7	A	A	815	178.212	103.958	-33.266	1.00	26.04	A16S
ATOM	17085	C8	A	A	815	177.229	103.663	-34.084	1.00	26.04	A16S
ATOM	17086	C2*	A	A	815	175.863	103.897	-36.945	1.00	31.32	A16S
ATOM	17087	O2*	A	A	815	176.619	104.595	-37.902	1.00	31.32	A16S

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ATOM	17088	C3*	A	A	815	174.427	103.687	-37.396	1.00	31.32	A16S
ATOM	17089	O3*	A	A	815	174.023	104.765	-38.223	1.00	31.32	A16S
ATOM	17090	P	A	A	816	173.831	104.521	-39.796	1.00	36.99	A16S
ATOM	17091	O1P	A	A	816	173.131	105.720	-40.368	1.00	30.63	A16S
ATOM	17092	O2P	A	A	816	175.171	104.118	-40.330	1.00	30.63	A16S
ATOM	17093	O5*	A	A	816	172.863	103.251	-39.864	1.00	36.99	A16S
ATOM	17094	C5*	A	A	816	171.481	103.349	-39.495	1.00	36.99	A16S
ATOM	17095	C4*	A	A	816	170.613	103.167	-40.714	1.00	36.99	A16S
ATOM	17096	O4*	A	A	816	170.806	101.829	-41.231	1.00	36.99	A16S
ATOM	17097	C1*	A	A	816	169.635	101.405	-41.893	1.00	36.99	A16S
ATOM	17098	N9	A	A	816	169.233	100.118	-41.339	1.00	30.63	A16S
ATOM	17099	C4	A	A	816	168.693	99.086	-42.058	1.00	30.63	A16S
ATOM	17100	N3	A	A	816	168.437	99.066	-43.377	1.00	30.63	A16S
ATOM	17101	C2	A	A	816	167.910	97.895	-43.730	1.00	30.63	A16S
ATOM	17102	N1	A	A	816	167.647	96.815	-42.969	1.00	30.63	A16S
ATOM	17103	C6	A	A	816	167.946	96.864	-41.651	1.00	30.63	A16S
ATOM	17104	N6	A	A	816	167.741	95.768	-40.907	1.00	30.63	A16S
ATOM	17105	C5	A	A	816	168.479	98.061	-41.150	1.00	30.63	A16S
ATOM	17106	N7	A	A	816	168.872	98.443	-39.879	1.00	30.63	A16S
ATOM	17107	C8	A	A	816	169.311	99.673	-40.044	1.00	30.63	A16S
ATOM	17108	C2*	A	A	816	168.583	102.501	-41.741	1.00	36.99	A16S
ATOM	17109	O2*	A	A	816	168.603	103.323	-42.891	1.00	36.99	A16S
ATOM	17110	C3*	A	A	816	169.105	103.270	-40.537	1.00	36.99	A16S
ATOM	17111	O3*	A	A	816	168.654	104.623	-40.594	1.00	36.99	A16S
ATOM	17112	P	C	A	817	167.764	105.218	-39.389	1.00	38.01	A16S
ATOM	17113	O1P	C	A	817	166.421	105.557	-39.953	1.00	33.37	A16S
ATOM	17114	O2P	C	A	817	167.847	104.283	-38.211	1.00	33.37	A16S
ATOM	17115	O5*	C	A	817	168.512	106.573	-39.018	1.00	38.01	A16S
ATOM	17116	C5*	C	A	817	167.933	107.827	-39.373	1.00	38.01	A16S
ATOM	17117	C4*	C	A	817	168.879	108.932	-39.038	1.00	38.01	A16S
ATOM	17118	O4*	C	A	817	169.288	108.754	-37.669	1.00	38.01	A16S
ATOM	17119	C1*	C	A	817	170.679	108.638	-37.601	1.00	38.01	A16S
ATOM	17120	N1	C	A	817	170.990	107.657	-36.567	1.00	33.37	A16S
ATOM	17121	C6	C	A	817	170.201	106.559	-36.370	1.00	33.37	A16S
ATOM	17122	C2	C	A	817	172.098	107.887	-35.751	1.00	33.37	A16S
ATOM	17123	O2	C	A	817	172.820	108.879	-35.990	1.00	33.37	A16S
ATOM	17124	N3	C	A	817	172.357	107.035	-34.728	1.00	33.37	A16S
ATOM	17125	C4	C	A	817	171.564	105.984	-34.523	1.00	33.37	A16S
ATOM	17126	N4	C	A	817	171.842	105.185	-33.500	1.00	33.37	A16S
ATOM	17127	C5	C	A	817	170.446	105.707	-35.364	1.00	33.37	A16S
ATOM	17128	C2*	C	A	817	171.174	108.274	-38.990	1.00	38.01	A16S
ATOM	17129	O2*	C	A	817	172.471	108.815	-39.146	1.00	38.01	A16S
ATOM	17130	C3*	C	A	817	170.148	108.980	-39.874	1.00	38.01	A16S
ATOM	17131	O3*	C	A	817	170.509	110.348	-40.027	1.00	38.01	A16S
ATOM	17132	P	G	A	818	169.542	111.348	-40.844	1.00	51.03	A16S
ATOM	17133	O1P	G	A	818	168.318	110.596	-41.252	1.00	58.37	A16S
ATOM	17134	O2P	G	A	818	170.348	112.068	-41.881	1.00	58.37	A16S
ATOM	17135	O5*	G	A	818	169.124	112.420	-39.743	1.00	51.03	A16S
ATOM	17136	C5*	G	A	818	170.117	113.282	-39.139	1.00	51.03	A16S
ATOM	17137	C4*	G	A	818	169.589	113.842	-37.841	1.00	51.03	A16S
ATOM	17138	O4*	G	A	818	168.274	114.402	-38.105	1.00	51.03	A16S
ATOM	17139	C1*	G	A	818	167.330	113.797	-37.251	1.00	51.03	A16S
ATOM	17140	N9	G	A	818	166.031	113.800	-37.909	1.00	58.37	A16S
ATOM	17141	C4	G	A	818	164.901	114.382	-37.399	1.00	58.37	A16S
ATOM	17142	N3	G	A	818	164.802	114.991	-36.195	1.00	58.37	A16S
ATOM	17143	C2	G	A	818	163.601	115.494	-35.997	1.00	58.37	A16S
ATOM	17144	N2	G	A	818	163.337	116.137	-34.856	1.00	58.37	A16S
ATOM	17145	N1	G	A	818	162.573	115.401	-36.907	1.00	58.37	A16S
ATOM	17146	C6	G	A	818	162.653	114.770	-38.149	1.00	58.37	A16S
ATOM	17147	O6	G	A	818	161.666	114.740	-38.892	1.00	58.37	A16S
ATOM	17148	C5	G	A	818	163.939	114.231	-38.374	1.00	58.37	A16S
ATOM	17149	N7	G	A	818	164.447	113.539	-39.464	1.00	58.37	A16S
ATOM	17150	C8	G	A	818	165.689	113.292	-39.139	1.00	58.37	A16S
ATOM	17151	C2*	G	A	818	167.924	112.459	-36.838	1.00	51.03	A16S
ATOM	17152	O2*	G	A	818	167.348	112.053	-35.625	1.00	51.03	A16S
ATOM	17153	C3*	G	A	818	169.398	112.836	-36.708	1.00	51.03	A16S
ATOM	17154	O3*	G	A	818	169.545	113.561	-35.493	1.00	51.03	A16S
ATOM	17155	P	A	A	819	170.533	113.046	-34.342	1.00	42.79	A16S
ATOM	17156	O1P	A	A	819	170.305	113.978	-33.208	1.00	35.19	A16S
ATOM	17157	O2P	A	A	819	171.897	112.909	-34.910	1.00	35.19	A16S
ATOM	17158	O5*	A	A	819	169.951	111.630	-33.886	1.00	42.79	A16S
ATOM	17159	C5*	A	A	819	169.701	110.629	-34.871	1.00	42.79	A16S
ATOM	17160	C4*	A	A	819	169.240	109.324	-34.263	1.00	42.79	A16S
ATOM	17161	O4*	A	A	819	170.325	108.645	-33.588	1.00	42.79	A16S
ATOM	17162	C1*	A	A	819	169.850	108.074	-32.399	1.00	42.79	A16S
ATOM	17163	N9	A	A	819	170.934	108.164	-31.428	1.00	35.19	A16S
ATOM	17164	C4	A	A	819	171.304	107.201	-30.525	1.00	35.19	A16S

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ATOM	17165	N3	A	A 819	170.725	106.006	-30.332	1.00	35.19	A16S
ATOM	17166	C2	A	A 819	171.369	105.329	-29.385	1.00	35.19	A16S
ATOM	17167	N1	A	A 819	172.446	105.687	-28.666	1.00	35.19	A16S
ATOM	17168	C6	A	A 819	172.994	106.896	-28.884	1.00	35.19	A16S
ATOM	17169	N6	A	A 819	174.058	107.252	-28.164	1.00	35.19	A16S
ATOM	17170	C5	A	A 819	172.405	107.709	-29.858	1.00	35.19	A16S
ATOM	17171	N7	A	A 819	172.714	108.982	-30.317	1.00	35.19	A16S
ATOM	17172	C8	A	A 819	171.811	109.207	-31.244	1.00	35.19	A16S
ATOM	17173	C2*	A	A 819	168.586	108.846	-32.016	1.00	42.79	A16S
ATOM	17174	O2*	A	A 819	167.744	107.980	-31.278	1.00	42.79	A16S
ATOM	17175	C3*	A	A 819	168.003	109.244	-33.383	1.00	42.79	A16S
ATOM	17176	O3*	A	A 819	167.157	108.214	-33.914	1.00	42.79	A16S
ATOM	17177	P	U	A 820	165.983	108.591	-34.957	1.00	29.48	A16S
ATOM	17178	O1P	U	A 820	165.260	107.337	-35.303	1.00	33.47	A16S
ATOM	17179	O2P	U	A 820	166.500	109.465	-36.047	1.00	33.47	A16S
ATOM	17180	O5*	U	A 820	164.960	109.458	-34.099	1.00	29.48	A16S
ATOM	17181	C5*	U	A 820	163.880	108.840	-33.353	1.00	29.48	A16S
ATOM	17182	C4*	U	A 820	162.776	109.846	-33.124	1.00	29.48	A16S
ATOM	17183	O4*	U	A 820	163.331	110.965	-32.384	1.00	29.48	A16S
ATOM	17184	C1*	U	A 820	163.141	112.148	-33.118	1.00	29.48	A16S
ATOM	17185	N1	U	A 820	164.244	113.068	-32.832	1.00	33.47	A16S
ATOM	17186	C6	U	A 820	165.541	112.773	-33.118	1.00	33.47	A16S
ATOM	17187	C2	U	A 820	163.906	114.254	-32.268	1.00	33.47	A16S
ATOM	17188	O2	U	A 820	162.761	114.522	-31.952	1.00	33.47	A16S
ATOM	17189	N3	U	A 820	164.947	115.118	-32.065	1.00	33.47	A16S
ATOM	17190	C4	U	A 820	166.263	114.899	-32.344	1.00	33.47	A16S
ATOM	17191	O4	U	A 820	167.086	115.786	-32.120	1.00	33.47	A16S
ATOM	17192	C5	U	A 820	166.539	113.623	-32.896	1.00	33.47	A16S
ATOM	17193	C2*	U	A 820	162.976	111.725	-34.573	1.00	29.48	A16S
ATOM	17194	O2*	U	A 820	162.293	112.709	-35.312	1.00	29.48	A16S
ATOM	17195	C3*	U	A 820	162.188	110.432	-34.409	1.00	29.48	A16S
ATOM	17196	O3*	U	A 820	160.820	110.801	-34.218	1.00	29.48	A16S
ATOM	17197	P	G	A 821	159.673	109.675	-34.050	1.00	41.02	A16S
ATOM	17198	O1P	G	A 821	158.568	110.420	-33.393	1.00	48.65	A16S
ATOM	17199	O2P	G	A 821	160.215	108.421	-33.411	1.00	48.65	A16S
ATOM	17200	O5*	G	A 821	159.166	109.335	-35.523	1.00	41.02	A16S
ATOM	17201	C5*	G	A 821	159.728	108.233	-36.245	1.00	41.02	A16S
ATOM	17202	C4*	G	A 821	158.657	107.506	-37.006	1.00	41.02	A16S
ATOM	17203	O4*	G	A 821	157.934	106.580	-36.157	1.00	41.02	A16S
ATOM	17204	C1*	G	A 821	156.576	106.527	-36.567	1.00	41.02	A16S
ATOM	17205	N9	G	A 821	155.746	106.954	-35.448	1.00	48.65	A16S
ATOM	17206	C4	G	A 821	154.380	106.844	-35.348	1.00	48.65	A16S
ATOM	17207	N3	G	A 821	153.562	106.301	-36.268	1.00	48.65	A16S
ATOM	17208	C2	G	A 821	152.296	106.373	-35.904	1.00	48.65	A16S
ATOM	17209	N2	G	A 821	151.346	105.892	-36.714	1.00	48.65	A16S
ATOM	17210	N1	G	A 821	151.869	106.925	-34.725	1.00	48.65	A16S
ATOM	17211	C6	G	A 821	152.699	107.488	-33.761	1.00	48.65	A16S
ATOM	17212	O6	G	A 821	152.214	107.968	-32.725	1.00	48.65	A16S
ATOM	17213	C5	G	A 821	154.055	107.423	-34.146	1.00	48.65	A16S
ATOM	17214	N7	G	A 821	155.190	107.875	-33.494	1.00	48.65	A16S
ATOM	17215	C8	G	A 821	156.169	107.571	-34.300	1.00	48.65	A16S
ATOM	17216	C2*	G	A 821	156.414	107.465	-37.768	1.00	41.02	A16S
ATOM	17217	O2*	G	A 821	156.480	106.716	-38.956	1.00	41.02	A16S
ATOM	17218	C3*	G	A 821	157.596	108.407	-37.589	1.00	41.02	A16S
ATOM	17219	O3*	G	A 821	158.051	108.977	-38.789	1.00	41.02	A16S
ATOM	17220	P	C	A 822	157.498	110.409	-39.228	1.00	36.70	A16S
ATOM	17221	O1P	C	A 822	158.251	110.854	-40.436	1.00	49.25	A16S
ATOM	17222	O2P	C	A 822	157.452	111.294	-38.022	1.00	49.25	A16S
ATOM	17223	O5*	C	A 822	156.020	110.056	-39.695	1.00	36.70	A16S
ATOM	17224	C5*	C	A 822	155.824	109.115	-40.751	1.00	36.70	A16S
ATOM	17225	C4*	C	A 822	154.359	108.924	-41.020	1.00	36.70	A16S
ATOM	17226	O4*	C	A 822	153.751	108.137	-39.968	1.00	36.70	A16S
ATOM	17227	C1*	C	A 822	152.433	108.596	-39.739	1.00	36.70	A16S
ATOM	17228	N1	C	A 822	152.348	109.097	-38.358	1.00	49.25	A16S
ATOM	17229	C6	C	A 822	153.479	109.391	-37.647	1.00	49.25	A16S
ATOM	17230	C2	C	A 822	151.093	109.275	-37.786	1.00	49.25	A16S
ATOM	17231	O2	C	A 822	150.088	108.980	-38.446	1.00	49.25	A16S
ATOM	17232	N3	C	A 822	151.006	109.760	-36.527	1.00	49.25	A16S
ATOM	17233	C4	C	A 822	152.118	110.049	-35.844	1.00	49.25	A16S
ATOM	17234	N4	C	A 822	151.992	110.526	-34.607	1.00	49.25	A16S
ATOM	17235	C5	C	A 822	153.410	109.863	-36.399	1.00	49.25	A16S
ATOM	17236	C2*	C	A 822	152.149	109.691	-40.765	1.00	36.70	A16S
ATOM	17237	O2*	C	A 822	151.601	109.085	-41.911	1.00	36.70	A16S
ATOM	17238	C3*	C	A 822	153.546	110.196	-41.063	1.00	36.70	A16S
ATOM	17239	O3*	C	A 822	153.636	110.828	-42.319	1.00	36.70	A16S
ATOM	17240	P	G	A 823	153.379	112.408	-42.413	1.00	48.67	A16S
ATOM	17241	O1P	G	A 823	153.574	112.795	-43.836	1.00	39.21	A16S

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ATOM	17242	O2P	G	A	823	154.153	113.103	-41.340	1.00	39.21	A16S
ATOM	17243	O5*	G	A	823	151.826	112.529	-42.102	1.00	48.67	A16S
ATOM	17244	C5*	G	A	823	150.898	111.853	-42.949	1.00	48.67	A16S
ATOM	17245	C4*	G	A	823	149.490	112.126	-42.515	1.00	48.67	A16S
ATOM	17246	O4*	G	A	823	149.153	111.355	-41.339	1.00	48.67	A16S
ATOM	17247	C1*	G	A	823	148.219	112.080	-40.558	1.00	48.67	A16S
ATOM	17248	N9	G	A	823	148.843	112.381	-39.279	1.00	39.21	A16S
ATOM	17249	C4	G	A	823	148.203	112.571	-38.087	1.00	39.21	A16S
ATOM	17250	N3	G	A	823	146.877	112.506	-37.887	1.00	39.21	A16S
ATOM	17251	C2	G	A	823	146.558	112.745	-36.625	1.00	39.21	A16S
ATOM	17252	N2	G	A	823	145.265	112.726	-36.243	1.00	39.21	A16S
ATOM	17253	N1	G	A	823	147.471	113.023	-35.645	1.00	39.21	A16S
ATOM	17254	C6	G	A	823	148.835	113.095	-35.833	1.00	39.21	A16S
ATOM	17255	O6	G	A	823	149.563	113.363	-34.880	1.00	39.21	A16S
ATOM	17256	C5	G	A	823	149.192	112.837	-37.178	1.00	39.21	A16S
ATOM	17257	N7	G	A	823	150.434	112.803	-37.784	1.00	39.21	A16S
ATOM	17258	C8	G	A	823	150.177	112.533	-39.031	1.00	39.21	A16S
ATOM	17259	C2*	G	A	823	147.902	113.366	-41.312	1.00	48.67	A16S
ATOM	17260	O2*	G	A	823	146.808	113.153	-42.195	1.00	48.67	A16S
ATOM	17261	C3*	G	A	823	149.168	113.549	-42.115	1.00	48.67	A16S
ATOM	17262	O3*	G	A	823	148.934	114.392	-43.208	1.00	48.67	A16S
ATOM	17263	P	C	A	824	149.179	115.954	-43.022	1.00	46.83	A16S
ATOM	17264	O1P	C	A	824	149.119	116.580	-44.378	1.00	47.31	A16S
ATOM	17265	O2P	C	A	824	150.397	116.114	-42.184	1.00	47.31	A16S
ATOM	17266	O5*	C	A	824	147.939	116.407	-42.134	1.00	46.83	A16S
ATOM	17267	C5*	C	A	824	146.608	116.304	-42.648	1.00	46.83	A16S
ATOM	17268	C4*	C	A	824	145.616	116.836	-41.646	1.00	46.83	A16S
ATOM	17269	O4*	C	A	824	145.491	115.932	-40.520	1.00	46.83	A16S
ATOM	17270	C1*	C	A	824	145.248	116.673	-39.347	1.00	46.83	A16S
ATOM	17271	N1	C	A	824	146.380	116.489	-38.442	1.00	47.31	A16S
ATOM	17272	C6	C	A	824	147.606	116.104	-38.905	1.00	47.31	A16S
ATOM	17273	C2	C	A	824	146.186	116.735	-37.088	1.00	47.31	A16S
ATOM	17274	O2	C	A	824	145.047	117.078	-36.699	1.00	47.31	A16S
ATOM	17275	N3	C	A	824	147.233	116.599	-36.232	1.00	47.31	A16S
ATOM	17276	C4	C	A	824	148.426	116.234	-36.695	1.00	47.31	A16S
ATOM	17277	N4	C	A	824	149.422	116.129	-35.828	1.00	47.31	A16S
ATOM	17278	C5	C	A	824	148.646	115.966	-38.072	1.00	47.31	A16S
ATOM	17279	C2*	C	A	824	145.144	118.141	-39.740	1.00	46.83	A16S
ATOM	17280	O2*	C	A	824	143.795	118.462	-40.007	1.00	46.83	A16S
ATOM	17281	C3*	C	A	824	145.968	118.165	-41.012	1.00	46.83	A16S
ATOM	17282	O3*	C	A	824	145.616	119.262	-41.822	1.00	46.83	A16S
ATOM	17283	P	G	A	825	146.211	120.709	-41.469	1.00	41.53	A16S
ATOM	17284	O1P	G	A	825	145.713	121.617	-42.553	1.00	38.28	A16S
ATOM	17285	O2P	G	A	825	147.682	120.571	-41.229	1.00	38.28	A16S
ATOM	17286	O5*	G	A	825	145.489	121.094	-40.098	1.00	41.53	A16S
ATOM	17287	C5*	G	A	825	144.087	121.394	-40.090	1.00	41.53	A16S
ATOM	17288	C4*	G	A	825	143.649	121.847	-38.730	1.00	41.53	A16S
ATOM	17289	O4*	G	A	825	143.786	120.752	-37.801	1.00	41.53	A16S
ATOM	17290	C1*	G	A	825	144.168	121.254	-36.539	1.00	41.53	A16S
ATOM	17291	N9	G	A	825	145.505	120.749	-36.231	1.00	38.28	A16S
ATOM	17292	C4	G	A	825	146.160	120.864	-35.024	1.00	38.28	A16S
ATOM	17293	N3	G	A	825	145.664	121.421	-33.907	1.00	38.28	A16S
ATOM	17294	C2	G	A	825	146.542	121.414	-32.927	1.00	38.28	A16S
ATOM	17295	N2	G	A	825	146.227	121.950	-31.757	1.00	38.28	A16S
ATOM	17296	N1	G	A	825	147.793	120.888	-33.022	1.00	38.28	A16S
ATOM	17297	C6	G	A	825	148.320	120.296	-34.153	1.00	38.28	A16S
ATOM	17298	O6	G	A	825	149.456	119.833	-34.122	1.00	38.28	A16S
ATOM	17299	C5	G	A	825	147.402	120.314	-35.227	1.00	38.28	A16S
ATOM	17300	N7	G	A	825	147.526	119.840	-36.526	1.00	38.28	A16S
ATOM	17301	C8	G	A	825	146.374	120.109	-37.082	1.00	38.28	A16S
ATOM	17302	C2*	G	A	825	144.185	122.781	-36.646	1.00	41.53	A16S
ATOM	17303	O2*	G	A	825	142.913	123.296	-36.326	1.00	41.53	A16S
ATOM	17304	C3*	G	A	825	144.447	122.983	-38.120	1.00	41.53	A16S
ATOM	17305	O3*	G	A	825	143.956	124.248	-38.524	1.00	41.53	A16S
ATOM	17306	P	C	A	826	144.929	125.536	-38.485	1.00	39.78	A16S
ATOM	17307	O1P	C	A	826	144.167	126.660	-39.094	1.00	46.00	A16S
ATOM	17308	O2P	C	A	826	146.247	125.148	-39.070	1.00	46.00	A16S
ATOM	17309	O5*	C	A	826	145.161	125.809	-36.930	1.00	39.78	A16S
ATOM	17310	C5*	C	A	826	144.073	126.176	-36.075	1.00	39.78	A16S
ATOM	17311	C4*	C	A	826	144.547	126.263	-34.652	1.00	39.78	A16S
ATOM	17312	O4*	C	A	826	145.035	124.960	-34.248	1.00	39.78	A16S
ATOM	17313	C1*	C	A	826	146.124	125.115	-33.348	1.00	39.78	A16S
ATOM	17314	N1	C	A	826	147.310	124.434	-33.900	1.00	46.00	A16S
ATOM	17315	C6	C	A	826	147.341	123.996	-35.195	1.00	46.00	A16S
ATOM	17316	C2	C	A	826	148.427	124.258	-33.068	1.00	46.00	A16S
ATOM	17317	O2	C	A	826	148.363	124.636	-31.884	1.00	46.00	A16S
ATOM	17318	N3	C	A	826	149.536	123.681	-33.571	1.00	46.00	A16S

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ATOM	17319	C4	C	A	826	149.554	123.269	-34.836	1.00	46.00	A16S
ATOM	17320	N4	C	A	826	150.665	122.702	-35.284	1.00	46.00	A16S
ATOM	17321	C5	C	A	826	148.431	123.416	-35.697	1.00	46.00	A16S
ATOM	17322	C2*	C	A	826	146.375	126.613	-33.155	1.00	39.78	A16S
ATOM	17323	O2*	C	A	826	145.812	127.060	-31.938	1.00	39.78	A16S
ATOM	17324	C3*	C	A	826	145.722	127.198	-34.402	1.00	39.78	A16S
ATOM	17325	O3*	C	A	826	145.338	128.556	-34.220	1.00	39.78	A16S
ATOM	17326	P	U	A	827	146.334	129.723	-34.710	1.00	39.22	A16S
ATOM	17327	O1P	U	A	827	145.601	131.012	-34.615	1.00	47.44	A16S
ATOM	17328	O2P	U	A	827	146.875	129.286	-36.035	1.00	47.44	A16S
ATOM	17329	O5*	U	A	827	147.519	129.738	-33.628	1.00	39.22	A16S
ATOM	17330	C5*	U	A	827	147.351	130.413	-32.362	1.00	39.22	A16S
ATOM	17331	C4*	U	A	827	148.572	130.243	-31.480	1.00	39.22	A16S
ATOM	17332	O4*	U	A	827	148.854	128.833	-31.298	1.00	39.22	A16S
ATOM	17333	C1*	U	A	827	150.253	128.630	-31.181	1.00	39.22	A16S
ATOM	17334	N1	U	A	827	150.684	127.790	-32.312	1.00	47.44	A16S
ATOM	17335	C6	U	A	827	149.830	127.535	-33.358	1.00	47.44	A16S
ATOM	17336	C2	U	A	827	151.966	127.256	-32.298	1.00	47.44	A16S
ATOM	17337	O2	U	A	827	152.778	127.487	-31.415	1.00	47.44	A16S
ATOM	17338	N3	U	A	827	152.263	126.455	-33.368	1.00	47.44	A16S
ATOM	17339	C4	U	A	827	151.438	126.151	-34.427	1.00	47.44	A16S
ATOM	17340	O4	U	A	827	151.820	125.369	-35.283	1.00	47.44	A16S
ATOM	17341	C5	U	A	827	150.158	126.760	-34.384	1.00	47.44	A16S
ATOM	17342	C2*	U	A	827	150.913	130.006	-31.193	1.00	39.22	A16S
ATOM	17343	O2*	U	A	827	151.050	130.463	-29.867	1.00	39.22	A16S
ATOM	17344	C3*	U	A	827	149.889	130.825	-31.961	1.00	39.22	A16S
ATOM	17345	O3*	U	A	827	150.016	132.198	-31.654	1.00	39.22	A16S
ATOM	17346	P	A	A	828	150.193	133.249	-32.852	1.00	54.11	A16S
ATOM	17347	O1P	A	A	828	150.230	134.598	-32.235	1.00	54.91	A16S
ATOM	17348	O2P	A	A	828	149.178	132.937	-33.903	1.00	54.91	A16S
ATOM	17349	O5*	A	A	828	151.633	132.942	-33.461	1.00	54.11	A16S
ATOM	17350	C5*	A	A	828	152.820	133.185	-32.697	1.00	54.11	A16S
ATOM	17351	C4*	A	A	828	153.249	134.618	-32.865	1.00	54.11	A16S
ATOM	17352	O4*	A	A	828	154.218	134.945	-31.844	1.00	54.11	A16S
ATOM	17353	C1*	A	A	828	155.125	135.910	-32.338	1.00	54.11	A16S
ATOM	17354	N9	A	A	828	156.454	135.318	-32.331	1.00	54.91	A16S
ATOM	17355	C4	A	A	828	157.609	135.962	-31.988	1.00	54.91	A16S
ATOM	17356	N3	A	A	828	157.740	137.243	-31.615	1.00	54.91	A16S
ATOM	17357	C2	A	A	828	159.012	137.519	-31.330	1.00	54.91	A16S
ATOM	17358	N1	A	A	828	160.082	136.716	-31.370	1.00	54.91	A16S
ATOM	17359	C6	A	A	828	159.909	135.430	-31.757	1.00	54.91	A16S
ATOM	17360	N6	A	A	828	160.971	134.623	-31.796	1.00	54.91	A16S
ATOM	17361	C5	A	A	828	158.610	135.019	-32.091	1.00	54.91	A16S
ATOM	17362	N7	A	A	828	158.098	133.803	-32.514	1.00	54.91	A16S
ATOM	17363	C8	A	A	828	156.817	134.034	-32.644	1.00	54.91	A16S
ATOM	17364	C2*	A	A	828	154.674	136.281	-33.743	1.00	54.11	A16S
ATOM	17365	O2*	A	A	828	153.816	137.399	-33.635	1.00	54.11	A16S
ATOM	17366	C3*	A	A	828	153.930	135.020	-34.161	1.00	54.11	A16S
ATOM	17367	O3*	A	A	828	153.017	135.293	-35.206	1.00	54.11	A16S
ATOM	17368	P	G	A	829	153.580	135.580	-36.691	1.00	45.22	A16S
ATOM	17369	O1P	G	A	829	152.446	135.938	-37.576	1.00	48.59	A16S
ATOM	17370	O2P	G	A	829	154.477	134.462	-37.063	1.00	48.59	A16S
ATOM	17371	O5*	G	A	829	154.466	136.890	-36.528	1.00	45.22	A16S
ATOM	17372	C5*	G	A	829	155.577	137.146	-37.396	1.00	45.22	A16S
ATOM	17373	C4*	G	A	829	156.648	137.886	-36.644	1.00	45.22	A16S
ATOM	17374	O4*	G	A	829	157.000	137.118	-35.468	1.00	45.22	A16S
ATOM	17375	C1*	G	A	829	158.406	137.089	-35.313	1.00	45.22	A16S
ATOM	17376	N9	G	A	829	158.832	135.722	-35.602	1.00	48.59	A16S
ATOM	17377	C4	G	A	829	160.104	135.206	-35.494	1.00	48.59	A16S
ATOM	17378	N3	G	A	829	161.198	135.872	-35.071	1.00	48.59	A16S
ATOM	17379	C2	G	A	829	162.280	135.116	-35.109	1.00	48.59	A16S
ATOM	17380	N2	G	A	829	163.455	135.621	-34.734	1.00	48.59	A16S
ATOM	17381	N1	G	A	829	162.289	133.811	-35.521	1.00	48.59	A16S
ATOM	17382	C6	G	A	829	161.177	133.106	-35.965	1.00	48.59	A16S
ATOM	17383	O6	G	A	829	161.297	131.931	-36.331	1.00	48.59	A16S
ATOM	17384	C5	G	A	829	160.008	133.902	-35.932	1.00	48.59	A16S
ATOM	17385	N7	G	A	829	158.702	133.596	-36.290	1.00	48.59	A16S
ATOM	17386	C8	G	A	829	158.039	134.698	-36.071	1.00	48.59	A16S
ATOM	17387	C2*	G	A	829	158.989	138.081	-36.325	1.00	45.22	A16S
ATOM	17388	O2*	G	A	829	159.120	139.359	-35.745	1.00	45.22	A16S
ATOM	17389	C3*	G	A	829	157.935	138.047	-37.420	1.00	45.22	A16S
ATOM	17390	O3*	G	A	829	157.908	139.222	-38.207	1.00	45.22	A16S
ATOM	17391	P	G	A	830	158.618	139.223	-39.650	1.00	54.62	A16S
ATOM	17392	O1P	G	A	830	158.509	140.608	-40.151	1.00	46.23	A16S
ATOM	17393	O2P	G	A	830	158.083	138.093	-40.473	1.00	46.23	A16S
ATOM	17394	O5*	G	A	830	160.153	138.993	-39.307	1.00	54.62	A16S
ATOM	17395	C5*	G	A	830	160.828	139.952	-38.505	1.00	54.62	A16S

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ATOM	17396	C4*	G	A	830	162.261	139.560	-38.295	1.00	54.62	A16S
ATOM	17397	O4*	G	A	830	162.355	138.415	-37.413	1.00	54.62	A16S
ATOM	17398	C1*	G	A	830	163.521	137.674	-37.725	1.00	54.62	A16S
ATOM	17399	N9	G	A	830	163.108	136.344	-38.142	1.00	46.23	A16S
ATOM	17400	C4	G	A	830	163.917	135.253	-38.289	1.00	46.23	A16S
ATOM	17401	N3	G	A	830	165.235	135.211	-38.032	1.00	46.23	A16S
ATOM	17402	C2	G	A	830	165.740	134.013	-38.256	1.00	46.23	A16S
ATOM	17403	N2	G	A	830	167.030	133.776	-38.004	1.00	46.23	A16S
ATOM	17404	N1	G	A	830	165.016	132.952	-38.729	1.00	46.23	A16S
ATOM	17405	C6	G	A	830	163.659	132.978	-39.019	1.00	46.23	A16S
ATOM	17406	O6	G	A	830	163.096	131.958	-39.474	1.00	46.23	A16S
ATOM	17407	C5	G	A	830	163.098	134.250	-38.746	1.00	46.23	A16S
ATOM	17408	N7	G	A	830	161.792	134.698	-38.865	1.00	46.23	A16S
ATOM	17409	C8	G	A	830	161.845	135.944	-38.492	1.00	46.23	A16S
ATOM	17410	C2*	G	A	830	164.223	138.397	-38.875	1.00	54.62	A16S
ATOM	17411	O2*	G	A	830	165.194	139.271	-38.336	1.00	54.62	A16S
ATOM	17412	C3*	G	A	830	163.068	139.157	-39.510	1.00	54.62	A16S
ATOM	17413	O3*	G	A	830	163.514	140.278	-40.243	1.00	54.62	A16S
ATOM	17414	P	U	A	831	163.747	140.139	-41.828	1.00	56.38	A16S
ATOM	17415	O1P	U	A	831	164.207	141.481	-42.266	1.00	52.35	A16S
ATOM	17416	O2P	U	A	831	162.573	139.508	-42.517	1.00	52.35	A16S
ATOM	17417	O5*	U	A	831	164.979	139.132	-41.911	1.00	56.38	A16S
ATOM	17418	C5*	U	A	831	166.279	139.528	-41.434	1.00	56.38	A16S
ATOM	17419	C4*	U	A	831	167.280	138.432	-41.683	1.00	56.38	A16S
ATOM	17420	O4*	U	A	831	166.975	137.309	-40.822	1.00	56.38	A16S
ATOM	17421	C1*	U	A	831	167.244	136.098	-41.502	1.00	56.38	A16S
ATOM	17422	N1	U	A	831	165.986	135.338	-41.646	1.00	52.35	A16S
ATOM	17423	C6	U	A	831	164.754	135.958	-41.726	1.00	52.35	A16S
ATOM	17424	C2	U	A	831	166.083	133.961	-41.715	1.00	52.35	A16S
ATOM	17425	O2	U	A	831	167.141	133.366	-41.633	1.00	52.35	A16S
ATOM	17426	N3	U	A	831	164.897	133.302	-41.883	1.00	52.35	A16S
ATOM	17427	C4	U	A	831	163.645	133.854	-41.987	1.00	52.35	A16S
ATOM	17428	O4	U	A	831	162.672	133.109	-42.154	1.00	52.35	A16S
ATOM	17429	C5	U	A	831	163.613	135.281	-41.891	1.00	52.35	A16S
ATOM	17430	C2*	U	A	831	167.863	136.467	-42.849	1.00	56.38	A16S
ATOM	17431	O2*	U	A	831	169.269	136.567	-42.722	1.00	56.38	A16S
ATOM	17432	C3*	U	A	831	167.268	137.838	-43.078	1.00	56.38	A16S
ATOM	17433	O3*	U	A	831	168.030	138.576	-44.007	1.00	56.38	A16S
ATOM	17434	P	C	A	832	167.746	138.387	-45.577	1.00	60.74	A16S
ATOM	17435	O1P	C	A	832	168.544	139.457	-46.232	1.00	61.73	A16S
ATOM	17436	O2P	C	A	832	166.281	138.302	-45.833	1.00	61.73	A16S
ATOM	17437	O5*	C	A	832	168.394	136.964	-45.894	1.00	60.74	A16S
ATOM	17438	C5*	C	A	832	169.805	136.776	-45.734	1.00	60.74	A16S
ATOM	17439	C4*	C	A	832	170.200	135.354	-46.022	1.00	60.74	A16S
ATOM	17440	O4*	C	A	832	169.715	134.477	-44.976	1.00	60.74	A16S
ATOM	17441	C1*	C	A	832	169.458	133.190	-45.520	1.00	60.74	A16S
ATOM	17442	N1	C	A	832	168.023	132.874	-45.377	1.00	61.73	A16S
ATOM	17443	C6	C	A	832	167.083	133.868	-45.350	1.00	61.73	A16S
ATOM	17444	C2	C	A	832	167.629	131.521	-45.297	1.00	61.73	A16S
ATOM	17445	O2	C	A	832	168.498	130.630	-45.289	1.00	61.73	A16S
ATOM	17446	N3	C	A	832	166.318	131.223	-45.229	1.00	61.73	A16S
ATOM	17447	C4	C	A	832	165.413	132.202	-45.224	1.00	61.73	A16S
ATOM	17448	N4	C	A	832	164.128	131.856	-45.172	1.00	61.73	A16S
ATOM	17449	C5	C	A	832	165.783	133.579	-45.277	1.00	61.73	A16S
ATOM	17450	C2*	C	A	832	169.822	133.242	-47.001	1.00	60.74	A16S
ATOM	17451	O2*	C	A	832	171.147	132.791	-47.171	1.00	60.74	A16S
ATOM	17452	C3*	C	A	832	169.674	134.725	-47.296	1.00	60.74	A16S
ATOM	17453	O3*	C	A	832	170.391	135.089	-48.454	1.00	60.74	A16S
ATOM	17454	P	U	A	833	169.667	134.982	-49.890	1.00	56.04	A16S
ATOM	17455	O1P	U	A	833	170.690	135.444	-50.866	1.00	54.90	A16S
ATOM	17456	O2P	U	A	833	168.320	135.649	-49.854	1.00	54.90	A16S
ATOM	17457	O5*	U	A	833	169.441	133.412	-50.087	1.00	56.04	A16S
ATOM	17458	C5*	U	A	833	170.562	132.508	-50.084	1.00	56.04	A16S
ATOM	17459	C4*	U	A	833	170.096	131.071	-50.115	1.00	56.04	A16S
ATOM	17460	O4*	U	A	833	169.344	130.771	-48.912	1.00	56.04	A16S
ATOM	17461	C1*	U	A	833	168.336	129.813	-49.206	1.00	56.04	A16S
ATOM	17462	N1	U	A	833	167.024	130.407	-48.922	1.00	54.90	A16S
ATOM	17463	C6	U	A	833	166.882	131.757	-48.707	1.00	54.90	A16S
ATOM	17464	C2	U	A	833	165.931	129.563	-48.905	1.00	54.90	A16S
ATOM	17465	O2	U	A	833	166.020	128.359	-49.039	1.00	54.90	A16S
ATOM	17466	N3	U	A	833	164.728	130.183	-48.716	1.00	54.90	A16S
ATOM	17467	C4	U	A	833	164.511	131.531	-48.527	1.00	54.90	A16S
ATOM	17468	O4	U	A	833	163.352	131.956	-48.466	1.00	54.90	A16S
ATOM	17469	C5	U	A	833	165.699	132.331	-48.513	1.00	54.90	A16S
ATOM	17470	C2*	U	A	833	168.451	129.451	-50.688	1.00	56.04	A16S
ATOM	17471	O2*	U	A	833	169.164	128.239	-50.828	1.00	56.04	A16S
ATOM	17472	C3*	U	A	833	169.162	130.678	-51.247	1.00	56.04	A16S

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ATOM	17473	O3*	U	A	833	169.847	130.407	-52.456	1.00	56.04	A16S
ATOM	17474	P	C	A	834	169.134	130.747	-53.857	1.00	39.16	A16S
ATOM	17475	O1P	C	A	834	170.214	130.933	-54.878	1.00	59.16	A16S
ATOM	17476	O2P	C	A	834	168.135	131.838	-53.635	1.00	59.16	A16S
ATOM	17477	O5*	C	A	834	168.315	129.420	-54.206	1.00	39.16	A16S
ATOM	17478	C5*	C	A	834	169.007	128.201	-54.524	1.00	39.16	A16S
ATOM	17479	C4*	C	A	834	168.040	127.048	-54.626	1.00	39.16	A16S
ATOM	17480	O4*	C	A	834	167.441	126.786	-53.331	1.00	39.16	A16S
ATOM	17481	C1*	C	A	834	166.086	126.412	-53.503	1.00	39.16	A16S
ATOM	17482	N1	C	A	834	165.245	127.434	-52.860	1.00	59.16	A16S
ATOM	17483	C6	C	A	834	165.742	128.676	-52.576	1.00	59.16	A16S
ATOM	17484	C2	C	A	834	163.924	127.121	-52.556	1.00	59.16	A16S
ATOM	17485	O2	C	A	834	163.511	125.983	-52.795	1.00	59.16	A16S
ATOM	17486	N3	C	A	834	163.131	128.064	-52.003	1.00	59.16	A16S
ATOM	17487	C4	C	A	834	163.621	129.277	-51.742	1.00	59.16	A16S
ATOM	17488	N4	C	A	834	162.799	130.185	-51.209	1.00	59.16	A16S
ATOM	17489	C5	C	A	834	164.974	129.618	-52.020	1.00	59.16	A16S
ATOM	17490	C2*	C	A	834	165.815	126.326	-55.006	1.00	39.16	A16S
ATOM	17491	O2*	C	A	834	166.007	125.006	-55.470	1.00	39.16	A16S
ATOM	17492	C3*	C	A	834	166.866	127.272	-55.554	1.00	39.16	A16S
ATOM	17493	O3*	C	A	834	167.181	126.987	-56.895	1.00	39.16	A16S
ATOM	17494	P	U	A	835	166.447	127.816	-58.051	1.00	50.34	A16S
ATOM	17495	O1P	U	A	835	167.067	127.442	-59.341	1.00	56.24	A16S
ATOM	17496	O2P	U	A	835	166.420	129.246	-57.627	1.00	56.24	A16S
ATOM	17497	O5*	U	A	835	164.955	127.255	-58.044	1.00	50.34	A16S
ATOM	17498	C5*	U	A	835	164.657	125.950	-58.580	1.00	50.34	A16S
ATOM	17499	C4*	U	A	835	163.183	125.639	-58.434	1.00	50.34	A16S
ATOM	17500	O4*	U	A	835	162.836	125.566	-57.026	1.00	50.34	A16S
ATOM	17501	C1*	U	A	835	161.504	126.016	-56.836	1.00	50.34	A16S
ATOM	17502	N1	U	A	835	161.522	127.206	-55.978	1.00	56.24	A16S
ATOM	17503	C6	U	A	835	162.671	127.925	-55.748	1.00	56.24	A16S
ATOM	17504	C2	U	A	835	160.324	127.593	-55.426	1.00	56.24	A16S
ATOM	17505	O2	U	A	835	159.288	126.955	-55.581	1.00	56.24	A16S
ATOM	17506	N3	U	A	835	160.374	128.747	-54.682	1.00	56.24	A16S
ATOM	17507	C4	U	A	835	161.480	129.527	-54.430	1.00	56.24	A16S
ATOM	17508	O4	U	A	835	161.351	130.568	-53.784	1.00	56.24	A16S
ATOM	17509	C5	U	A	835	162.690	129.042	-55.011	1.00	56.24	A16S
ATOM	17510	C2*	U	A	835	160.939	126.383	-58.203	1.00	50.34	A16S
ATOM	17511	O2*	U	A	835	160.173	125.306	-58.721	1.00	50.34	A16S
ATOM	17512	C3*	U	A	835	162.212	126.669	-58.984	1.00	50.34	A16S
ATOM	17513	O3*	U	A	835	162.001	126.566	-60.373	1.00	50.34	A16S
ATOM	17514	P	G	A	836	161.458	127.841	-61.163	1.00	72.85	A16S
ATOM	17515	O1P	G	A	836	161.477	127.455	-62.598	1.00	64.20	A16S
ATOM	17516	O2P	G	A	836	162.265	128.998	-60.697	1.00	64.20	A16S
ATOM	17517	O5*	G	A	836	159.951	128.020	-60.642	1.00	72.85	A16S
ATOM	17518	C5*	G	A	836	158.926	127.074	-61.031	1.00	72.85	A16S
ATOM	17519	C4*	G	A	836	157.541	127.453	-60.507	1.00	72.85	A16S
ATOM	17520	O4*	G	A	836	157.452	127.306	-59.063	1.00	72.85	A16S
ATOM	17521	C1*	G	A	836	156.360	128.076	-58.581	1.00	72.85	A16S
ATOM	17522	N9	G	A	836	156.833	129.066	-57.618	1.00	64.20	A16S
ATOM	17523	C4	G	A	836	156.054	129.744	-56.699	1.00	64.20	A16S
ATOM	17524	N3	G	A	836	154.729	129.563	-56.492	1.00	64.20	A16S
ATOM	17525	C2	G	A	836	154.252	130.389	-55.578	1.00	64.20	A16S
ATOM	17526	N2	G	A	836	152.944	130.339	-55.257	1.00	64.20	A16S
ATOM	17527	N1	G	A	836	155.018	131.322	-54.917	1.00	64.20	A16S
ATOM	17528	C6	G	A	836	156.384	131.520	-55.111	1.00	64.20	A16S
ATOM	17529	O6	G	A	836	156.988	132.385	-54.456	1.00	64.20	A16S
ATOM	17530	C5	G	A	836	156.904	130.639	-56.088	1.00	64.20	A16S
ATOM	17531	N7	G	A	836	158.198	130.504	-56.577	1.00	64.20	A16S
ATOM	17532	C8	G	A	836	158.111	129.555	-57.473	1.00	64.20	A16S
ATOM	17533	C2*	G	A	836	155.753	128.802	-59.780	1.00	72.85	A16S
ATOM	17534	O2*	G	A	836	154.667	128.046	-60.283	1.00	72.85	A16S
ATOM	17535	C3*	G	A	836	156.918	128.821	-60.760	1.00	72.85	A16S
ATOM	17536	O3*	G	A	836	156.393	129.015	-62.067	1.00	72.85	A16S
ATOM	17537	P	G	A	837	156.202	130.520	-62.632	1.00	71.67	A16S
ATOM	17538	O1P	G	A	837	155.807	130.324	-64.053	1.00	71.26	A16S
ATOM	17539	O2P	G	A	837	157.394	131.353	-62.301	1.00	71.26	A16S
ATOM	17540	O5*	G	A	837	154.968	131.137	-61.825	1.00	71.67	A16S
ATOM	17541	C5*	G	A	837	153.613	130.761	-62.146	1.00	71.67	A16S
ATOM	17542	C4*	G	A	837	152.630	131.451	-61.223	1.00	71.67	A16S
ATOM	17543	O4*	G	A	837	152.929	131.095	-59.848	1.00	71.67	A16S
ATOM	17544	C1*	G	A	837	152.681	132.204	-59.001	1.00	71.67	A16S
ATOM	17545	N9	G	A	837	153.954	132.645	-58.450	1.00	71.26	A16S
ATOM	17546	C4	G	A	837	154.131	133.543	-57.429	1.00	71.26	A16S
ATOM	17547	N3	G	A	837	153.152	134.149	-56.726	1.00	71.26	A16S
ATOM	17548	C2	G	A	837	153.638	134.985	-55.819	1.00	71.26	A16S
ATOM	17549	N2	G	A	837	152.809	135.669	-55.022	1.00	71.26	A16S

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ATOM	17550	N1	G	A	837	154.974	135.212	-55.623	1.00	71.26	A16S
ATOM	17551	C6	G	A	837	156.000	134.600	-56.336	1.00	71.26	A16S
ATOM	17552	O6	G	A	837	157.179	134.881	-56.083	1.00	71.26	A16S
ATOM	17553	C5	G	A	837	155.493	133.695	-57.309	1.00	71.26	A16S
ATOM	17554	N7	G	A	837	156.160	132.891	-58.222	1.00	71.26	A16S
ATOM	17555	C8	G	A	837	155.208	132.282	-58.870	1.00	71.26	A16S
ATOM	17556	C2*	G	A	837	152.084	133.317	-59.858	1.00	71.67	A16S
ATOM	17557	O2*	G	A	837	150.675	133.258	-59.782	1.00	71.67	A16S
ATOM	17558	C3*	G	A	837	152.645	132.973	-61.233	1.00	71.67	A16S
ATOM	17559	O3*	G	A	837	151.865	133.518	-62.292	1.00	71.67	A16S
ATOM	17560	P	G	A	838	152.272	134.938	-62.931	1.00	86.03	A16S
ATOM	17561	O1P	G	A	838	151.444	135.087	-64.158	1.00	95.92	A16S
ATOM	17562	O2P	G	A	838	153.752	135.011	-63.037	1.00	95.92	A16S
ATOM	17563	O5*	G	A	838	151.812	136.010	-61.841	1.00	86.03	A16S
ATOM	17564	C5*	G	A	838	150.430	136.100	-61.414	1.00	86.03	A16S
ATOM	17565	C4*	G	A	838	150.315	136.950	-60.168	1.00	86.03	A16S
ATOM	17566	O4*	G	A	838	151.109	136.344	-59.117	1.00	86.03	A16S
ATOM	17567	C1*	G	A	838	151.746	137.352	-58.352	1.00	86.03	A16S
ATOM	17568	N9	G	A	838	153.189	137.181	-58.486	1.00	95.92	A16S
ATOM	17569	C4	G	A	838	154.160	137.811	-57.751	1.00	95.92	A16S
ATOM	17570	N3	G	A	838	153.954	138.728	-56.789	1.00	95.92	A16S
ATOM	17571	C2	G	A	838	155.091	139.134	-56.243	1.00	95.92	A16S
ATOM	17572	N2	G	A	838	155.075	140.051	-55.263	1.00	95.92	A16S
ATOM	17573	N1	G	A	838	156.330	138.672	-56.608	1.00	95.92	A16S
ATOM	17574	C6	G	A	838	156.566	137.722	-57.594	1.00	95.92	A16S
ATOM	17575	O6	G	A	838	157.725	137.356	-57.834	1.00	95.92	A16S
ATOM	17576	C5	G	A	838	155.355	137.288	-58.198	1.00	95.92	A16S
ATOM	17577	N7	G	A	838	155.140	136.369	-59.217	1.00	95.92	A16S
ATOM	17578	C8	G	A	838	153.844	136.342	-59.357	1.00	95.92	A16S
ATOM	17579	C2*	G	A	838	151.261	138.705	-58.862	1.00	86.03	A16S
ATOM	17580	O2*	G	A	838	150.192	139.133	-58.041	1.00	86.03	A16S
ATOM	17581	C3*	G	A	838	150.847	138.370	-60.295	1.00	86.03	A16S
ATOM	17582	O3*	G	A	838	149.840	139.264	-60.773	1.00	86.03	A16S
ATOM	17583	P	U	A	839	150.081	140.108	-62.127	1.00	131.52	A16S
ATOM	17584	O1P	U	A	839	148.896	140.995	-62.271	1.00	131.24	A16S
ATOM	17585	O2P	U	A	839	150.439	139.173	-63.225	1.00	131.24	A16S
ATOM	17586	O5*	U	A	839	151.350	141.035	-61.850	1.00	131.52	A16S
ATOM	17587	C5*	U	A	839	151.708	141.456	-60.521	1.00	131.52	A16S
ATOM	17588	C4*	U	A	839	151.160	142.831	-60.236	1.00	131.52	A16S
ATOM	17589	O4*	U	A	839	149.740	142.716	-59.959	1.00	131.52	A16S
ATOM	17590	C1*	U	A	839	149.366	143.700	-59.009	1.00	131.52	A16S
ATOM	17591	N1	U	A	839	148.478	143.095	-57.991	1.00	131.24	A16S
ATOM	17592	C6	U	A	839	147.314	142.469	-58.395	1.00	131.24	A16S
ATOM	17593	C2	U	A	839	148.801	143.185	-56.622	1.00	131.24	A16S
ATOM	17594	O2	U	A	839	149.831	143.691	-56.190	1.00	131.24	A16S
ATOM	17595	N3	U	A	839	147.860	142.648	-55.774	1.00	131.24	A16S
ATOM	17596	C4	U	A	839	146.669	142.038	-56.123	1.00	131.24	A16S
ATOM	17597	O4	U	A	839	145.902	141.655	-55.234	1.00	131.24	A16S
ATOM	17598	C5	U	A	839	146.427	141.955	-57.533	1.00	131.24	A16S
ATOM	17599	C2*	U	A	839	150.625	144.452	-58.558	1.00	131.52	A16S
ATOM	17600	O2*	U	A	839	150.708	145.713	-59.193	1.00	131.52	A16S
ATOM	17601	C3*	U	A	839	151.737	143.506	-58.996	1.00	131.52	A16S
ATOM	17602	O3*	U	A	839	152.924	144.240	-59.305	1.00	131.52	A16S
ATOM	17603	P	C	A	840	153.899	144.729	-58.120	1.00	197.98	A16S
ATOM	17604	O1P	C	A	840	153.065	144.979	-56.910	1.00	151.57	A16S
ATOM	17605	O2P	C	A	840	154.739	145.823	-58.671	1.00	151.57	A16S
ATOM	17606	O5*	C	A	840	154.837	143.468	-57.845	1.00	197.98	A16S
ATOM	17607	C5*	C	A	840	155.812	143.468	-56.772	1.00	197.98	A16S
ATOM	17608	C4*	C	A	840	157.085	142.779	-57.224	1.00	197.98	A16S
ATOM	17609	O4*	C	A	840	156.737	141.437	-57.647	1.00	197.98	A16S
ATOM	17610	C1*	C	A	840	157.520	141.068	-58.762	1.00	197.98	A16S
ATOM	17611	N1	C	A	840	156.630	140.532	-59.814	1.00	151.57	A16S
ATOM	17612	C6	C	A	840	155.460	141.163	-60.132	1.00	151.57	A16S
ATOM	17613	C2	C	A	840	156.994	139.338	-60.480	1.00	151.57	A16S
ATOM	17614	O2	C	A	840	158.077	138.789	-60.204	1.00	151.57	A16S
ATOM	17615	N3	C	A	840	156.154	138.818	-61.409	1.00	151.57	A16S
ATOM	17616	C4	C	A	840	155.005	139.438	-61.692	1.00	151.57	A16S
ATOM	17617	N4	C	A	840	154.196	138.878	-62.598	1.00	151.57	A16S
ATOM	17618	C5	C	A	840	154.627	140.657	-61.053	1.00	151.57	A16S
ATOM	17619	C2*	C	A	840	158.427	142.245	-59.140	1.00	197.98	A16S
ATOM	17620	O2*	C	A	840	159.739	141.991	-58.678	1.00	197.98	A16S
ATOM	17621	C3*	C	A	840	157.763	143.429	-58.428	1.00	197.98	A16S
ATOM	17622	O3*	C	A	840	158.806	144.367	-58.078	1.00	197.98	A16S
ATOM	17623	P	U	A	841	158.627	145.406	-56.849	1.00	197.47	A16S
ATOM	17624	O1P	U	A	841	157.205	145.808	-56.714	1.00	197.98	A16S
ATOM	17625	O2P	U	A	841	159.664	146.454	-57.023	1.00	197.98	A16S
ATOM	17626	O5*	U	A	841	159.036	144.540	-55.575	1.00	197.47	A16S

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ATOM	17627	C5*	U	A	841	159.293	145.150	-54.292	1.00197.47	A16S
ATOM	17628	C4*	U	A	841	160.774	145.412	-54.129	1.00197.47	A16S
ATOM	17629	O4*	U	A	841	161.113	146.626	-54.851	1.00197.47	A16S
ATOM	17630	C1*	U	A	841	162.102	147.353	-54.138	1.00197.47	A16S
ATOM	17631	N1	U	A	841	161.567	148.687	-53.805	1.00197.98	A16S
ATOM	17632	C6	U	A	841	160.211	148.951	-53.851	1.00197.98	A16S
ATOM	17633	C2	U	A	841	162.473	149.682	-53.437	1.00197.98	A16S
ATOM	17634	O2	U	A	841	163.680	149.501	-53.376	1.00197.98	A16S
ATOM	17635	N3	U	A	841	161.907	150.899	-53.141	1.00197.98	A16S
ATOM	17636	C4	U	A	841	160.564	151.224	-53.169	1.00197.98	A16S
ATOM	17637	O4	U	A	841	160.212	152.368	-52.868	1.00197.98	A16S
ATOM	17638	C5	U	A	841	159.696	150.150	-53.554	1.00197.98	A16S
ATOM	17639	C2*	U	A	841	162.488	146.534	-52.906	1.00197.47	A16S
ATOM	17640	O2*	U	A	841	163.645	145.769	-53.186	1.00197.47	A16S
ATOM	17641	C3*	U	A	841	161.247	145.673	-52.705	1.00197.47	A16S
ATOM	17642	O3*	U	A	841	161.571	144.457	-52.033	1.00197.47	A16S
ATOM	17643	P	C	A	848	161.811	144.459	-50.440	1.00150.53	A16S
ATOM	17644	O1P	C	A	848	161.793	145.878	-49.984	1.00140.25	A16S
ATOM	17645	O2P	C	A	848	163.005	143.616	-50.158	1.00140.25	A16S
ATOM	17646	O5*	C	A	848	160.522	143.720	-49.852	1.00150.53	A16S
ATOM	17647	C5*	C	A	848	159.391	144.476	-49.372	1.00150.53	A16S
ATOM	17648	C4*	C	A	848	158.099	143.924	-49.933	1.00150.53	A16S
ATOM	17649	O4*	C	A	848	158.181	143.860	-51.383	1.00150.53	A16S
ATOM	17650	C1*	C	A	848	157.395	142.778	-51.858	1.00150.53	A16S
ATOM	17651	N1	C	A	848	158.246	141.852	-52.634	1.00140.25	A16S
ATOM	17652	C6	C	A	848	159.461	141.435	-52.158	1.00140.25	A16S
ATOM	17653	C2	C	A	848	157.779	141.390	-53.877	1.00140.25	A16S
ATOM	17654	O2	C	A	848	156.679	141.785	-54.292	1.00140.25	A16S
ATOM	17655	N3	C	A	848	158.540	140.526	-54.591	1.00140.25	A16S
ATOM	17656	C4	C	A	848	159.723	140.127	-54.113	1.00140.25	A16S
ATOM	17657	N4	C	A	848	160.439	139.277	-54.852	1.00140.25	A16S
ATOM	17658	C5	C	A	848	160.223	140.582	-52.857	1.00140.25	A16S
ATOM	17659	C2*	C	A	848	156.754	142.105	-50.649	1.00150.53	A16S
ATOM	17660	O2*	C	A	848	155.455	142.633	-50.480	1.00150.53	A16S
ATOM	17661	C3*	C	A	848	157.700	142.515	-49.527	1.00150.53	A16S
ATOM	17662	O3*	C	A	848	157.046	142.486	-48.270	1.00150.53	A16S
ATOM	17663	P	C	A	849	156.657	141.068	-47.613	1.00113.41	A16S
ATOM	17664	O1P	C	A	849	156.185	141.357	-46.229	1.00 96.60	A16S
ATOM	17665	O2P	C	A	849	157.780	140.110	-47.820	1.00 96.60	A16S
ATOM	17666	O5*	C	A	849	155.424	140.561	-48.488	1.00113.41	A16S
ATOM	17667	C5*	C	A	849	154.165	141.258	-48.463	1.00113.41	A16S
ATOM	17668	C4*	C	A	849	153.158	140.559	-49.343	1.00113.41	A16S
ATOM	17669	O4*	C	A	849	153.546	140.661	-50.736	1.00113.41	A16S
ATOM	17670	C1*	C	A	849	153.147	139.488	-51.429	1.00113.41	A16S
ATOM	17671	N1	C	A	849	154.334	138.861	-52.047	1.00 96.60	A16S
ATOM	17672	C6	C	A	849	155.567	138.932	-51.455	1.00 96.60	A16S
ATOM	17673	C2	C	A	849	154.172	138.177	-53.254	1.00 96.60	A16S
ATOM	17674	O2	C	A	849	153.047	138.145	-53.783	1.00 96.60	A16S
ATOM	17675	N3	C	A	849	155.240	137.576	-53.820	1.00 96.60	A16S
ATOM	17676	C4	C	A	849	156.436	137.654	-53.239	1.00 96.60	A16S
ATOM	17677	N4	C	A	849	157.461	137.059	-53.846	1.00 96.60	A16S
ATOM	17678	C5	C	A	849	156.634	138.349	-52.012	1.00 96.60	A16S
ATOM	17679	C2*	C	A	849	152.458	138.560	-50.428	1.00113.41	A16S
ATOM	17680	O2*	C	A	849	151.057	138.695	-50.532	1.00113.41	A16S
ATOM	17681	C3*	C	A	849	153.014	139.069	-49.107	1.00113.41	A16S
ATOM	17682	O3*	C	A	849	152.158	138.788	-48.025	1.00113.41	A16S
ATOM	17683	P	U	A	850	152.352	137.421	-47.225	1.00 78.87	A16S
ATOM	17684	O1P	U	A	850	151.387	137.415	-46.091	1.00 93.76	A16S
ATOM	17685	O2P	U	A	850	153.808	137.267	-46.954	1.00 93.76	A16S
ATOM	17686	O5*	U	A	850	151.925	136.318	-48.297	1.00 78.87	A16S
ATOM	17687	C5*	U	A	850	150.581	136.280	-48.805	1.00 78.87	A16S
ATOM	17688	C4*	U	A	850	150.463	135.300	-49.948	1.00 78.87	A16S
ATOM	17689	O4*	U	A	850	151.265	135.751	-51.069	1.00 78.87	A16S
ATOM	17690	C1*	U	A	850	151.737	134.626	-51.793	1.00 78.87	A16S
ATOM	17691	N1	U	A	850	153.208	134.619	-51.782	1.00 93.76	A16S
ATOM	17692	C6	U	A	850	153.943	135.381	-50.897	1.00 93.76	A16S
ATOM	17693	C2	U	A	850	153.838	133.786	-52.692	1.00 93.76	A16S
ATOM	17694	O2	U	A	850	153.225	133.104	-53.506	1.00 93.76	A16S
ATOM	17695	N3	U	A	850	155.207	133.775	-52.618	1.00 93.76	A16S
ATOM	17696	C4	U	A	850	155.998	134.493	-51.754	1.00 93.76	A16S
ATOM	17697	O4	U	A	850	157.219	134.336	-51.791	1.00 93.76	A16S
ATOM	17698	C5	U	A	850	155.281	135.346	-50.853	1.00 93.76	A16S
ATOM	17699	C2*	U	A	850	151.207	133.367	-51.107	1.00 78.87	A16S
ATOM	17700	O2*	U	A	850	150.051	132.885	-51.766	1.00 78.87	A16S
ATOM	17701	C3*	U	A	850	150.942	133.879	-49.699	1.00 78.87	A16S
ATOM	17702	O3*	U	A	850	150.003	133.064	-49.023	1.00 78.87	A16S
ATOM	17703	P	G	A	851	150.534	131.916	-48.030	1.00 68.32	A16S

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ATOM	17704	O1P	G	A	851	149.334	131.426	-47.290	1.00	59.53	A16S
ATOM	17705	O2P	G	A	851	151.702	132.450	-47.275	1.00	59.53	A16S
ATOM	17706	O5*	G	A	851	151.078	130.754	-48.985	1.00	68.32	A16S
ATOM	17707	C5*	G	A	851	150.156	129.834	-49.590	1.00	68.32	A16S
ATOM	17708	C4*	G	A	851	150.863	128.765	-50.403	1.00	68.32	A16S
ATOM	17709	O4*	G	A	851	151.460	129.314	-51.605	1.00	68.32	A16S
ATOM	17710	C1*	G	A	851	152.486	128.443	-52.052	1.00	68.32	A16S
ATOM	17711	N9	G	A	851	153.749	129.176	-52.143	1.00	59.53	A16S
ATOM	17712	C4	G	A	851	154.905	128.769	-52.797	1.00	59.53	A16S
ATOM	17713	N3	G	A	851	155.058	127.647	-53.536	1.00	59.53	A16S
ATOM	17714	C2	G	A	851	156.292	127.520	-53.993	1.00	59.53	A16S
ATOM	17715	N2	G	A	851	156.615	126.472	-54.756	1.00	59.53	A16S
ATOM	17716	N1	G	A	851	157.297	128.410	-53.738	1.00	59.53	A16S
ATOM	17717	C6	G	A	851	157.166	129.571	-52.982	1.00	59.53	A16S
ATOM	17718	O6	G	A	851	158.150	130.320	-52.804	1.00	59.53	A16S
ATOM	17719	C5	G	A	851	155.846	129.730	-52.499	1.00	59.53	A16S
ATOM	17720	N7	G	A	851	155.292	130.743	-51.730	1.00	59.53	A16S
ATOM	17721	C8	G	A	851	154.049	130.379	-51.553	1.00	59.53	A16S
ATOM	17722	C2*	G	A	851	152.582	127.300	-51.039	1.00	68.32	A16S
ATOM	17723	O2*	G	A	851	151.796	126.226	-51.510	1.00	68.32	A16S
ATOM	17724	C3*	G	A	851	151.962	127.914	-49.788	1.00	68.32	A16S
ATOM	17725	O3*	G	A	851	151.446	126.880	-48.941	1.00	68.32	A16S
ATOM	17726	P	G	A	852	152.450	126.021	-48.002	1.00	57.99	A16S
ATOM	17727	O1P	G	A	852	151.643	124.961	-47.351	1.00	63.22	A16S
ATOM	17728	O2P	G	A	852	153.266	126.941	-47.160	1.00	63.22	A16S
ATOM	17729	O5*	G	A	852	153.431	125.279	-49.024	1.00	57.99	A16S
ATOM	17730	C5*	G	A	852	152.977	124.147	-49.814	1.00	57.99	A16S
ATOM	17731	C4*	G	A	852	154.140	123.493	-50.541	1.00	57.99	A16S
ATOM	17732	O4*	G	A	852	154.651	124.365	-51.586	1.00	57.99	A16S
ATOM	17733	C1*	G	A	852	156.060	124.223	-51.684	1.00	57.99	A16S
ATOM	17734	N9	G	A	852	156.684	125.490	-51.314	1.00	63.22	A16S
ATOM	17735	C4	G	A	852	157.997	125.831	-51.517	1.00	63.22	A16S
ATOM	17736	N3	G	A	852	158.934	125.053	-52.094	1.00	63.22	A16S
ATOM	17737	C2	G	A	852	160.111	125.654	-52.150	1.00	63.22	A16S
ATOM	17738	N2	G	A	852	161.157	125.011	-52.690	1.00	63.22	A16S
ATOM	17739	N1	G	A	852	160.350	126.922	-51.679	1.00	63.22	A16S
ATOM	17740	C6	G	A	852	159.407	127.737	-51.066	1.00	63.22	A16S
ATOM	17741	O6	G	A	852	159.740	128.857	-50.648	1.00	63.22	A16S
ATOM	17742	C5	G	A	852	158.132	127.102	-51.003	1.00	63.22	A16S
ATOM	17743	N7	G	A	852	156.925	127.552	-50.482	1.00	63.22	A16S
ATOM	17744	C8	G	A	852	156.098	126.563	-50.689	1.00	63.22	A16S
ATOM	17745	C2*	G	A	852	156.481	123.128	-50.711	1.00	57.99	A16S
ATOM	17746	O2*	G	A	852	156.554	121.889	-51.381	1.00	57.99	A16S
ATOM	17747	C3*	G	A	852	155.356	123.183	-49.690	1.00	57.99	A16S
ATOM	17748	O3*	G	A	852	155.243	121.973	-48.976	1.00	57.99	A16S
ATOM	17749	P	G	A	853	156.041	121.813	-47.595	1.00	55.59	A16S
ATOM	17750	O1P	G	A	853	155.652	120.502	-46.986	1.00	58.23	A16S
ATOM	17751	O2P	G	A	853	155.839	123.076	-46.826	1.00	58.23	A16S
ATOM	17752	O5*	G	A	853	157.587	121.816	-48.014	1.00	55.59	A16S
ATOM	17753	C5*	G	A	853	158.189	120.708	-48.719	1.00	55.59	A16S
ATOM	17754	C4*	G	A	853	159.665	120.977	-48.996	1.00	55.59	A16S
ATOM	17755	O4*	G	A	853	159.809	122.109	-49.898	1.00	55.59	A16S
ATOM	17756	C1*	G	A	853	161.077	122.709	-49.701	1.00	55.59	A16S
ATOM	17757	N9	G	A	853	160.910	124.118	-49.369	1.00	58.23	A16S
ATOM	17758	C4	G	A	853	161.916	125.063	-49.328	1.00	58.23	A16S
ATOM	17759	N3	G	A	853	163.218	124.854	-49.637	1.00	58.23	A16S
ATOM	17760	C2	G	A	853	163.952	125.940	-49.467	1.00	58.23	A16S
ATOM	17761	N2	G	A	853	165.263	125.890	-49.722	1.00	58.23	A16S
ATOM	17762	N1	G	A	853	163.452	127.149	-49.031	1.00	58.23	A16S
ATOM	17763	C6	G	A	853	162.112	127.397	-48.707	1.00	58.23	A16S
ATOM	17764	O6	G	A	853	161.751	128.536	-48.310	1.00	58.23	A16S
ATOM	17765	C5	G	A	853	161.309	126.223	-48.888	1.00	58.23	A16S
ATOM	17766	N7	G	A	853	159.946	126.021	-48.692	1.00	58.23	A16S
ATOM	17767	C8	G	A	853	159.756	124.763	-48.997	1.00	58.23	A16S
ATOM	17768	C2*	G	A	853	161.771	121.973	-48.557	1.00	55.59	A16S
ATOM	17769	O2*	G	A	853	162.671	121.036	-49.105	1.00	55.59	A16S
ATOM	17770	C3*	G	A	853	160.601	121.314	-47.837	1.00	55.59	A16S
ATOM	17771	O3*	G	A	853	161.060	120.168	-47.115	1.00	55.59	A16S
ATOM	17772	P	G	A	854	161.759	120.353	-45.667	1.00	44.50	A16S
ATOM	17773	O1P	G	A	854	162.072	118.988	-45.155	1.00	54.87	A16S
ATOM	17774	O2P	G	A	854	160.951	121.288	-44.830	1.00	54.87	A16S
ATOM	17775	O5*	G	A	854	163.156	121.054	-45.977	1.00	44.50	A16S
ATOM	17776	C5*	G	A	854	164.110	120.390	-46.809	1.00	44.50	A16S
ATOM	17777	C4*	G	A	854	165.373	121.194	-46.937	1.00	44.50	A16S
ATOM	17778	O4*	G	A	854	165.129	122.442	-47.630	1.00	44.50	A16S
ATOM	17779	C1*	G	A	854	166.031	123.431	-47.162	1.00	44.50	A16S
ATOM	17780	N9	G	A	854	165.260	124.591	-46.710	1.00	54.87	A16S

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ATOM	17781	C4	G	A	854	165.732	125.851	-46.385	1.00	54.87	A16S
ATOM	17782	N3	G	A	854	167.022	126.249	-46.383	1.00	54.87	A16S
ATOM	17783	C2	G	A	854	167.142	127.533	-46.051	1.00	54.87	A16S
ATOM	17784	N2	G	A	854	168.347	128.106	-45.987	1.00	54.87	A16S
ATOM	17785	N1	G	A	854	166.087	128.354	-45.753	1.00	54.87	A16S
ATOM	17786	C6	G	A	854	164.753	127.967	-45.750	1.00	54.87	A16S
ATOM	17787	O6	G	A	854	163.868	128.792	-45.477	1.00	54.87	A16S
ATOM	17788	C5	G	A	854	164.607	126.596	-46.092	1.00	54.87	A16S
ATOM	17789	N7	G	A	854	163.461	125.824	-46.197	1.00	54.87	A16S
ATOM	17790	C8	G	A	854	163.896	124.646	-46.555	1.00	54.87	A16S
ATOM	17791	C2*	G	A	854	166.915	122.769	-46.103	1.00	44.50	A16S
ATOM	17792	O2*	G	A	854	168.088	122.300	-46.743	1.00	44.50	A16S
ATOM	17793	C3*	G	A	854	166.047	121.599	-45.651	1.00	44.50	A16S
ATOM	17794	O3*	G	A	854	166.821	120.528	-45.138	1.00	44.50	A16S
ATOM	17795	P	G	A	855	167.355	120.596	-43.623	1.00	42.92	A16S
ATOM	17796	O1P	G	A	855	168.559	119.710	-43.554	1.00	46.95	A16S
ATOM	17797	O2P	G	A	855	166.212	120.363	-42.685	1.00	46.95	A16S
ATOM	17798	O5*	G	A	855	167.832	122.114	-43.489	1.00	42.92	A16S
ATOM	17799	C5*	G	A	855	167.890	122.786	-42.220	1.00	42.92	A16S
ATOM	17800	C4*	G	A	855	168.903	123.906	-42.278	1.00	42.92	A16S
ATOM	17801	O4*	G	A	855	168.552	124.836	-43.334	1.00	42.92	A16S
ATOM	17802	C1*	G	A	855	168.934	126.154	-42.963	1.00	42.92	A16S
ATOM	17803	N9	G	A	855	167.743	126.996	-42.908	1.00	46.95	A16S
ATOM	17804	C4	G	A	855	167.723	128.339	-42.613	1.00	46.95	A16S
ATOM	17805	N3	G	A	855	168.805	129.115	-42.387	1.00	46.95	A16S
ATOM	17806	C2	G	A	855	168.471	130.350	-42.070	1.00	46.95	A16S
ATOM	17807	N2	G	A	855	169.431	131.261	-41.824	1.00	46.95	A16S
ATOM	17808	N1	G	A	855	167.174	130.788	-41.975	1.00	46.95	A16S
ATOM	17809	C6	G	A	855	166.043	130.013	-42.210	1.00	46.95	A16S
ATOM	17810	O6	G	A	855	164.903	130.518	-42.094	1.00	46.95	A16S
ATOM	17811	C5	G	A	855	166.392	128.682	-42.561	1.00	46.95	A16S
ATOM	17812	N7	G	A	855	165.589	127.588	-42.865	1.00	46.95	A16S
ATOM	17813	C8	G	A	855	166.433	126.615	-43.077	1.00	46.95	A16S
ATOM	17814	C2*	G	A	855	169.577	126.069	-41.583	1.00	42.92	A16S
ATOM	17815	O2*	G	A	855	170.972	126.001	-41.716	1.00	42.92	A16S
ATOM	17816	C3*	G	A	855	168.978	124.783	-41.050	1.00	42.92	A16S
ATOM	17817	O3*	G	A	855	169.770	124.207	-40.050	1.00	42.92	A16S
ATOM	17818	P	C	A	856	169.274	124.285	-38.525	1.00	44.51	A16S
ATOM	17819	O1P	C	A	856	170.017	123.202	-37.817	1.00	40.84	A16S
ATOM	17820	O2P	C	A	856	167.778	124.313	-38.483	1.00	40.84	A16S
ATOM	17821	O5*	C	A	856	169.780	125.709	-38.030	1.00	44.51	A16S
ATOM	17822	C5*	C	A	856	171.152	126.050	-38.126	1.00	44.51	A16S
ATOM	17823	C4*	C	A	856	171.311	127.538	-38.074	1.00	44.51	A16S
ATOM	17824	O4*	C	A	856	170.626	128.140	-39.197	1.00	44.51	A16S
ATOM	17825	C1*	C	A	856	170.175	129.430	-38.827	1.00	44.51	A16S
ATOM	17826	N1	C	A	856	168.724	129.486	-38.966	1.00	40.84	A16S
ATOM	17827	C6	C	A	856	167.971	128.359	-39.099	1.00	40.84	A16S
ATOM	17828	C2	C	A	856	168.128	130.724	-38.923	1.00	40.84	A16S
ATOM	17829	O2	C	A	856	168.854	131.723	-38.839	1.00	40.84	A16S
ATOM	17830	N3	C	A	856	166.793	130.815	-38.968	1.00	40.84	A16S
ATOM	17831	C4	C	A	856	166.060	129.717	-39.060	1.00	40.84	A16S
ATOM	17832	N4	C	A	856	164.742	129.853	-39.059	1.00	40.84	A16S
ATOM	17833	C5	C	A	856	166.645	128.430	-39.146	1.00	40.84	A16S
ATOM	17834	C2*	C	A	856	170.528	129.653	-37.358	1.00	44.51	A16S
ATOM	17835	O2*	C	A	856	171.714	130.396	-37.238	1.00	44.51	A16S
ATOM	17836	C3*	C	A	856	170.705	128.230	-36.870	1.00	44.51	A16S
ATOM	17837	O3*	C	A	856	171.568	128.213	-35.763	1.00	44.51	A16S
ATOM	17838	P	C	A	857	170.944	128.280	-34.291	1.00	52.27	A16S
ATOM	17839	O1P	C	A	857	172.100	128.267	-33.341	1.00	50.36	A16S
ATOM	17840	O2P	C	A	857	169.888	127.235	-34.186	1.00	50.36	A16S
ATOM	17841	O5*	C	A	857	170.262	129.717	-34.241	1.00	52.27	A16S
ATOM	17842	C5*	C	A	857	171.078	130.889	-34.131	1.00	52.27	A16S
ATOM	17843	C4*	C	A	857	170.244	132.097	-33.774	1.00	52.27	A16S
ATOM	17844	O4*	C	A	857	169.368	132.435	-34.878	1.00	52.27	A16S
ATOM	17845	C1*	C	A	857	168.208	133.067	-34.385	1.00	52.27	A16S
ATOM	17846	N1	C	A	857	167.022	132.365	-34.895	1.00	50.36	A16S
ATOM	17847	C6	C	A	857	167.083	131.058	-35.295	1.00	50.36	A16S
ATOM	17848	C2	C	A	857	165.810	133.065	-34.950	1.00	50.36	A16S
ATOM	17849	O2	C	A	857	165.794	134.267	-34.601	1.00	50.36	A16S
ATOM	17850	N3	C	A	857	164.692	132.421	-35.382	1.00	50.36	A16S
ATOM	17851	C4	C	A	857	164.763	131.140	-35.755	1.00	50.36	A16S
ATOM	17852	N4	C	A	857	163.647	130.545	-36.159	1.00	50.36	A16S
ATOM	17853	C5	C	A	857	165.989	130.414	-35.726	1.00	50.36	A16S
ATOM	17854	C2*	C	A	857	168.289	133.074	-32.858	1.00	52.27	A16S
ATOM	17855	O2*	C	A	857	168.726	134.334	-32.395	1.00	52.27	A16S
ATOM	17856	C3*	C	A	857	169.312	131.979	-32.584	1.00	52.27	A16S
ATOM	17857	O3*	C	A	857	169.963	132.185	-31.331	1.00	52.27	A16S

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ATOM	17858	P	G	A	858	169.167	131.842	-29.974	1.00	60.17	A16S
ATOM	17859	O1P	G	A	858	169.849	132.488	-28.809	1.00	49.85	A16S
ATOM	17860	O2P	G	A	858	168.906	130.367	-29.960	1.00	49.85	A16S
ATOM	17861	O5*	G	A	858	167.794	132.614	-30.210	1.00	60.17	A16S
ATOM	17862	C5*	G	A	858	166.747	132.640	-29.231	1.00	60.17	A16S
ATOM	17863	C4*	G	A	858	165.676	133.607	-29.671	1.00	60.17	A16S
ATOM	17864	O4*	G	A	858	165.595	133.588	-31.118	1.00	60.17	A16S
ATOM	17865	C1*	G	A	858	164.270	133.348	-31.516	1.00	60.17	A16S
ATOM	17866	N9	G	A	858	164.209	131.942	-31.900	1.00	49.85	A16S
ATOM	17867	C4	G	A	858	163.151	131.288	-32.458	1.00	49.85	A16S
ATOM	17868	N3	G	A	858	161.956	131.828	-32.743	1.00	49.85	A16S
ATOM	17869	C2	G	A	858	161.136	130.951	-33.283	1.00	49.85	A16S
ATOM	17870	N2	G	A	858	159.893	131.327	-33.625	1.00	49.85	A16S
ATOM	17871	N1	G	A	858	161.471	129.642	-33.531	1.00	49.85	A16S
ATOM	17872	C6	G	A	858	162.710	129.065	-33.254	1.00	49.85	A16S
ATOM	17873	O6	G	A	858	162.927	127.874	-33.542	1.00	49.85	A16S
ATOM	17874	C5	G	A	858	163.586	129.993	-32.662	1.00	49.85	A16S
ATOM	17875	N7	G	A	858	164.892	129.834	-32.224	1.00	49.85	A16S
ATOM	17876	C8	G	A	858	165.222	131.014	-31.780	1.00	49.85	A16S
ATOM	17877	C2*	G	A	858	163.395	133.723	-30.319	1.00	60.17	A16S
ATOM	17878	O2*	G	A	858	163.186	135.116	-30.362	1.00	60.17	A16S
ATOM	17879	C3*	G	A	858	164.282	133.303	-29.152	1.00	60.17	A16S
ATOM	17880	O3*	G	A	858	164.039	134.034	-27.949	1.00	60.17	A16S
ATOM	17881	P	A	A	859	162.952	133.499	-26.883	1.00	42.60	A16S
ATOM	17882	O1P	A	A	859	163.020	134.450	-25.731	1.00	51.80	A16S
ATOM	17883	O2P	A	A	859	163.134	132.038	-26.634	1.00	51.80	A16S
ATOM	17884	O5*	A	A	859	161.549	133.720	-27.617	1.00	42.60	A16S
ATOM	17885	C5*	A	A	859	161.167	135.044	-28.051	1.00	42.60	A16S
ATOM	17886	C4*	A	A	859	159.695	135.297	-27.819	1.00	42.60	A16S
ATOM	17887	O4*	A	A	859	158.919	135.021	-29.007	1.00	42.60	A16S
ATOM	17888	C1*	A	A	859	157.606	134.669	-28.634	1.00	42.60	A16S
ATOM	17889	N9	A	A	859	157.292	133.350	-29.180	1.00	51.80	A16S
ATOM	17890	C4	A	A	859	156.027	132.879	-29.409	1.00	51.80	A16S
ATOM	17891	N3	A	A	859	154.875	133.539	-29.224	1.00	51.80	A16S
ATOM	17892	C2	A	A	859	153.840	132.761	-29.515	1.00	51.80	A16S
ATOM	17893	N1	A	A	859	153.830	131.492	-29.936	1.00	51.80	A16S
ATOM	17894	C6	A	A	859	155.011	130.857	-30.108	1.00	51.80	A16S
ATOM	17895	N6	A	A	859	155.001	129.583	-30.514	1.00	51.80	A16S
ATOM	17896	C5	A	A	859	156.179	131.579	-29.841	1.00	51.80	A16S
ATOM	17897	N7	A	A	859	157.519	131.241	-29.918	1.00	51.80	A16S
ATOM	17898	C8	A	A	859	158.138	132.327	-29.525	1.00	51.80	A16S
ATOM	17899	C2*	A	A	859	157.544	134.671	-27.104	1.00	42.60	A16S
ATOM	17900	O2*	A	A	859	157.057	135.911	-26.647	1.00	42.60	A16S
ATOM	17901	C3*	A	A	859	159.003	134.524	-26.719	1.00	42.60	A16S
ATOM	17902	O3*	A	A	859	159.218	135.093	-25.445	1.00	42.60	A16S
ATOM	17903	P	A	A	860	159.001	134.184	-24.137	1.00	35.47	A16S
ATOM	17904	O1P	A	A	860	158.809	135.104	-22.980	1.00	58.60	A16S
ATOM	17905	O2P	A	A	860	160.079	133.156	-24.073	1.00	58.60	A16S
ATOM	17906	O5*	A	A	860	157.609	133.456	-24.420	1.00	35.47	A16S
ATOM	17907	C5*	A	A	860	156.370	134.123	-24.142	1.00	35.47	A16S
ATOM	17908	C4*	A	A	860	155.202	133.188	-24.334	1.00	35.47	A16S
ATOM	17909	O4*	A	A	860	155.096	132.828	-25.732	1.00	35.47	A16S
ATOM	17910	C1*	A	A	860	154.615	131.498	-25.851	1.00	35.47	A16S
ATOM	17911	N9	A	A	860	155.669	130.700	-26.472	1.00	58.60	A16S
ATOM	17912	C4	A	A	860	155.522	129.495	-27.099	1.00	58.60	A16S
ATOM	17913	N3	A	A	860	154.384	128.836	-27.321	1.00	58.60	A16S
ATOM	17914	C2	A	A	860	154.628	127.699	-27.951	1.00	58.60	A16S
ATOM	17915	N1	A	A	860	155.793	127.181	-28.345	1.00	58.60	A16S
ATOM	17916	C6	A	A	860	156.920	127.868	-28.089	1.00	58.60	A16S
ATOM	17917	N6	A	A	860	158.092	127.342	-28.452	1.00	58.60	A16S
ATOM	17918	C5	A	A	860	156.794	129.093	-27.445	1.00	58.60	A16S
ATOM	17919	N7	A	A	860	157.727	130.042	-27.073	1.00	58.60	A16S
ATOM	17920	C8	A	A	860	157.011	130.978	-26.509	1.00	58.60	A16S
ATOM	17921	C2*	A	A	860	154.326	130.994	-24.433	1.00	35.47	A16S
ATOM	17922	O2*	A	A	860	152.972	131.220	-24.132	1.00	35.47	A16S
ATOM	17923	C3*	A	A	860	155.249	131.864	-23.599	1.00	35.47	A16S
ATOM	17924	O3*	A	A	860	154.790	131.985	-22.275	1.00	35.47	A16S
ATOM	17925	P	G	A	861	155.635	131.307	-21.093	1.00	35.43	A16S
ATOM	17926	O1P	G	A	861	154.980	131.627	-19.789	1.00	48.22	A16S
ATOM	17927	O2P	G	A	861	157.081	131.634	-21.287	1.00	48.22	A16S
ATOM	17928	O5*	G	A	861	155.442	129.752	-21.368	1.00	35.43	A16S
ATOM	17929	C5*	G	A	861	154.126	129.193	-21.457	1.00	35.43	A16S
ATOM	17930	C4*	G	A	861	154.146	127.917	-22.265	1.00	35.43	A16S
ATOM	17931	O4*	G	A	861	154.604	128.208	-23.615	1.00	35.43	A16S
ATOM	17932	C1*	G	A	861	155.410	127.146	-24.090	1.00	35.43	A16S
ATOM	17933	N9	G	A	861	156.768	127.662	-24.244	1.00	48.22	A16S
ATOM	17934	C4	G	A	861	157.806	127.081	-24.930	1.00	48.22	A16S

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ATOM	17935	N3	G	A	861	157.763	125.908	-25.593	1.00	48.22	A16S
ATOM	17936	C2	G	A	861	158.914	125.622	-26.170	1.00	48.22	A16S
ATOM	17937	N2	G	A	861	159.041	124.494	-26.878	1.00	48.22	A16S
ATOM	17938	N1	G	A	861	160.025	126.424	-26.101	1.00	48.22	A16S
ATOM	17939	C6	G	A	861	160.095	127.638	-25.422	1.00	48.22	A16S
ATOM	17940	O6	G	A	861	161.151	128.300	-25.429	1.00	48.22	A16S
ATOM	17941	C5	G	A	861	158.865	127.951	-24.793	1.00	48.22	A16S
ATOM	17942	N7	G	A	861	158.508	129.046	-24.020	1.00	48.22	A16S
ATOM	17943	C8	G	A	861	157.259	128.832	-23.719	1.00	48.22	A16S
ATOM	17944	C2*	G	A	861	155.320	126.032	-23.046	1.00	35.43	A16S
ATOM	17945	O2*	G	A	861	154.190	125.248	-23.355	1.00	35.43	A16S
ATOM	17946	C3*	G	A	861	155.073	126.822	-21.774	1.00	35.43	A16S
ATOM	17947	O3*	G	A	861	154.462	126.030	-20.771	1.00	35.43	A16S
ATOM	17948	P	C	A	862	155.387	125.296	-19.676	1.00	41.86	A16S
ATOM	17949	O1P	C	A	862	154.522	124.676	-18.638	1.00	45.47	A16S
ATOM	17950	O2P	C	A	862	156.445	126.250	-19.265	1.00	45.47	A16S
ATOM	17951	O5*	C	A	862	156.092	124.131	-20.501	1.00	41.86	A16S
ATOM	17952	C5*	C	A	862	155.306	123.184	-21.264	1.00	41.86	A16S
ATOM	17953	C4*	C	A	862	156.208	122.209	-21.988	1.00	41.86	A16S
ATOM	17954	O4*	C	A	862	156.831	122.843	-23.131	1.00	41.86	A16S
ATOM	17955	C1*	C	A	862	158.162	122.379	-23.254	1.00	41.86	A16S
ATOM	17956	N1	C	A	862	159.074	123.524	-23.113	1.00	45.47	A16S
ATOM	17957	C6	C	A	862	158.699	124.641	-22.433	1.00	45.47	A16S
ATOM	17958	C2	C	A	862	160.331	123.447	-23.683	1.00	45.47	A16S
ATOM	17959	O2	C	A	862	160.644	122.425	-24.302	1.00	45.47	A16S
ATOM	17960	N3	C	A	862	161.179	124.481	-23.554	1.00	45.47	A16S
ATOM	17961	C4	C	A	862	160.805	125.563	-22.889	1.00	45.47	A16S
ATOM	17962	N4	C	A	862	161.675	126.559	-22.783	1.00	45.47	A16S
ATOM	17963	C5	C	A	862	159.527	125.674	-22.301	1.00	45.47	A16S
ATOM	17964	C2*	C	A	862	158.395	121.307	-22.188	1.00	41.86	A16S
ATOM	17965	O2*	C	A	862	158.127	120.042	-22.754	1.00	41.86	A16S
ATOM	17966	C3*	C	A	862	157.355	121.680	-21.146	1.00	41.86	A16S
ATOM	17967	O3*	C	A	862	156.934	120.561	-20.380	1.00	41.86	A16S
ATOM	17968	P	U	A	863	157.714	120.193	-19.027	1.00	43.69	A16S
ATOM	17969	O1P	U	A	863	157.132	118.931	-18.459	1.00	50.52	A16S
ATOM	17970	O2P	U	A	863	157.832	121.407	-18.163	1.00	50.52	A16S
ATOM	17971	O5*	U	A	863	159.166	119.864	-19.574	1.00	43.69	A16S
ATOM	17972	C5*	U	A	863	159.415	118.649	-20.286	1.00	43.69	A16S
ATOM	17973	C4*	U	A	863	160.892	118.469	-20.473	1.00	43.69	A16S
ATOM	17974	O4*	U	A	863	161.387	119.458	-21.404	1.00	43.69	A16S
ATOM	17975	C1*	U	A	863	162.674	119.877	-21.002	1.00	43.69	A16S
ATOM	17976	N1	U	A	863	162.652	121.338	-20.829	1.00	50.52	A16S
ATOM	17977	C6	U	A	863	161.493	122.003	-20.513	1.00	50.52	A16S
ATOM	17978	C2	U	A	863	163.833	122.023	-21.001	1.00	50.52	A16S
ATOM	17979	O2	U	A	863	164.866	121.478	-21.299	1.00	50.52	A16S
ATOM	17980	N3	U	A	863	163.754	123.373	-20.818	1.00	50.52	A16S
ATOM	17981	C4	U	A	863	162.629	124.095	-20.502	1.00	50.52	A16S
ATOM	17982	O4	U	A	863	162.706	125.314	-20.399	1.00	50.52	A16S
ATOM	17983	C5	U	A	863	161.443	123.321	-20.353	1.00	50.52	A16S
ATOM	17984	C2*	U	A	863	163.056	119.078	-19.750	1.00	43.69	A16S
ATOM	17985	O2*	U	A	863	163.762	117.920	-20.139	1.00	43.69	A16S
ATOM	17986	C3*	U	A	863	161.701	118.673	-19.213	1.00	43.69	A16S
ATOM	17987	O3*	U	A	863	161.771	117.466	-18.496	1.00	43.69	A16S
ATOM	17988	P	A	A	864	161.800	117.509	-16.895	1.00	38.88	A16S
ATOM	17989	O1P	A	A	864	161.736	116.092	-16.426	1.00	49.93	A16S
ATOM	17990	O2P	A	A	864	160.763	118.483	-16.440	1.00	49.93	A16S
ATOM	17991	O5*	A	A	864	163.222	118.136	-16.550	1.00	38.88	A16S
ATOM	17992	C5*	A	A	864	163.605	118.380	-15.192	1.00	38.88	A16S
ATOM	17993	C4*	A	A	864	165.092	118.185	-15.029	1.00	38.88	A16S
ATOM	17994	O4*	A	A	864	165.430	116.787	-15.244	1.00	38.88	A16S
ATOM	17995	C1*	A	A	864	166.670	116.695	-15.926	1.00	38.88	A16S
ATOM	17996	N9	A	A	864	166.460	115.968	-17.185	1.00	49.93	A16S
ATOM	17997	C4	A	A	864	167.415	115.288	-17.902	1.00	49.93	A16S
ATOM	17998	N3	A	A	864	168.717	115.167	-17.610	1.00	49.93	A16S
ATOM	17999	C2	A	A	864	169.325	114.424	-18.515	1.00	49.93	A16S
ATOM	18000	N1	A	A	864	168.825	113.830	-19.600	1.00	49.93	A16S
ATOM	18001	C6	A	A	864	167.516	113.972	-19.869	1.00	49.93	A16S
ATOM	18002	N6	A	A	864	167.021	113.377	-20.952	1.00	49.93	A16S
ATOM	18003	C5	A	A	864	166.756	114.740	-18.986	1.00	49.93	A16S
ATOM	18004	N7	A	A	864	165.412	115.078	-18.968	1.00	49.93	A16S
ATOM	18005	C8	A	A	864	165.288	115.808	-17.887	1.00	49.93	A16S
ATOM	18006	C2*	A	A	864	167.215	118.119	-16.102	1.00	38.88	A16S
ATOM	18007	O2*	A	A	864	168.126	118.394	-15.051	1.00	38.88	A16S
ATOM	18008	C3*	A	A	864	165.942	118.955	-16.022	1.00	38.88	A16S
ATOM	18009	O3*	A	A	864	166.172	120.275	-15.560	1.00	38.88	A16S
ATOM	18010	P	A	A	865	165.704	121.530	-16.459	1.00	37.37	A16S
ATOM	18011	O1P	A	A	865	165.368	122.584	-15.470	1.00	45.96	A16S

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ATOM	18012	O2P	A	A	865	164.684	121.122	-17.477	1.00	45.96	A16S
ATOM	18013	O5*	A	A	865	167.021	121.983	-17.239	1.00	37.37	A16S
ATOM	18014	C5*	A	A	865	168.241	122.253	-16.509	1.00	37.37	A16S
ATOM	18015	C4*	A	A	865	169.426	121.609	-17.188	1.00	37.37	A16S
ATOM	18016	O4*	A	A	865	169.258	120.166	-17.238	1.00	37.37	A16S
ATOM	18017	C1*	A	A	865	169.752	119.670	-18.465	1.00	37.37	A16S
ATOM	18018	N9	A	A	865	168.644	119.073	-19.211	1.00	45.96	A16S
ATOM	18019	C4	A	A	865	168.741	118.037	-20.105	1.00	45.96	A16S
ATOM	18020	N3	A	A	865	169.848	117.369	-20.462	1.00	45.96	A16S
ATOM	18021	C2	A	A	865	169.559	116.432	-21.367	1.00	45.96	A16S
ATOM	18022	N1	A	A	865	168.382	116.110	-21.910	1.00	45.96	A16S
ATOM	18023	C6	A	A	865	167.292	116.793	-21.524	1.00	45.96	A16S
ATOM	18024	N6	A	A	865	166.121	116.459	-22.055	1.00	45.96	A16S
ATOM	18025	C5	A	A	865	167.461	117.820	-20.574	1.00	45.96	A16S
ATOM	18026	N7	A	A	865	166.571	118.705	-19.986	1.00	45.96	A16S
ATOM	18027	C8	A	A	865	167.319	119.420	-19.186	1.00	45.96	A16S
ATOM	18028	C2*	A	A	865	170.380	120.844	-19.213	1.00	37.37	A16S
ATOM	18029	O2*	A	A	865	171.745	120.837	-18.867	1.00	37.37	A16S
ATOM	18030	C3*	A	A	865	169.634	122.036	-18.624	1.00	37.37	A16S
ATOM	18031	O3*	A	A	865	170.402	123.227	-18.625	1.00	37.37	A16S
ATOM	18032	P	C	A	866	170.463	124.142	-19.944	1.00	39.54	A16S
ATOM	18033	O1P	C	A	866	171.454	125.227	-19.686	1.00	46.00	A16S
ATOM	18034	O2P	C	A	866	169.089	124.491	-20.391	1.00	46.00	A16S
ATOM	18035	O5*	C	A	866	171.072	123.177	-21.055	1.00	39.54	A16S
ATOM	18036	C5*	C	A	866	172.442	122.736	-20.995	1.00	39.54	A16S
ATOM	18037	C4*	C	A	866	172.728	121.801	-22.138	1.00	39.54	A16S
ATOM	18038	O4*	C	A	866	172.036	120.544	-21.942	1.00	39.54	A16S
ATOM	18039	C1*	C	A	866	171.595	120.050	-23.196	1.00	39.54	A16S
ATOM	18040	N1	C	A	866	170.129	119.884	-23.168	1.00	46.00	A16S
ATOM	18041	C6	C	A	866	169.333	120.795	-22.545	1.00	46.00	A16S
ATOM	18042	C2	C	A	866	169.562	118.776	-23.802	1.00	46.00	A16S
ATOM	18043	O2	C	A	866	170.300	117.955	-24.355	1.00	46.00	A16S
ATOM	18044	N3	C	A	866	168.226	118.624	-23.797	1.00	46.00	A16S
ATOM	18045	C4	C	A	866	167.462	119.518	-23.182	1.00	46.00	A16S
ATOM	18046	N4	C	A	866	166.147	119.317	-23.179	1.00	46.00	A16S
ATOM	18047	C5	C	A	866	168.009	120.653	-22.532	1.00	46.00	A16S
ATOM	18048	C2*	C	A	866	172.057	121.030	-24.278	1.00	39.54	A16S
ATOM	18049	O2*	C	A	866	173.290	120.571	-24.782	1.00	39.54	A16S
ATOM	18050	C3*	C	A	866	172.243	122.310	-23.484	1.00	39.54	A16S
ATOM	18051	O3*	C	A	866	173.229	123.134	-24.068	1.00	39.54	A16S
ATOM	18052	P	G	A	867	172.819	124.156	-25.230	1.00	36.60	A16S
ATOM	18053	O1P	G	A	867	174.057	124.819	-25.722	1.00	53.07	A16S
ATOM	18054	O2P	G	A	867	171.676	124.983	-24.755	1.00	53.07	A16S
ATOM	18055	O5*	G	A	867	172.270	123.211	-26.381	1.00	36.60	A16S
ATOM	18056	C5*	G	A	867	171.208	123.646	-27.230	1.00	36.60	A16S
ATOM	18057	C4*	G	A	867	170.199	122.549	-27.369	1.00	36.60	A16S
ATOM	18058	O4*	G	A	867	169.706	122.166	-26.057	1.00	36.60	A16S
ATOM	18059	C1*	G	A	867	168.311	121.928	-26.128	1.00	36.60	A16S
ATOM	18060	N9	G	A	867	167.644	122.972	-25.343	1.00	53.07	A16S
ATOM	18061	C4	G	A	867	166.293	123.096	-25.037	1.00	53.07	A16S
ATOM	18062	N3	G	A	867	165.306	122.247	-25.391	1.00	53.07	A16S
ATOM	18063	C2	G	A	867	164.131	122.642	-24.932	1.00	53.07	A16S
ATOM	18064	N2	G	A	867	163.045	121.908	-25.168	1.00	53.07	A16S
ATOM	18065	N1	G	A	867	163.940	123.781	-24.206	1.00	53.07	A16S
ATOM	18066	C6	G	A	867	164.939	124.673	-23.849	1.00	53.07	A16S
ATOM	18067	O6	G	A	867	164.662	125.686	-23.215	1.00	53.07	A16S
ATOM	18068	C5	G	A	867	166.191	124.260	-24.306	1.00	53.07	A16S
ATOM	18069	N7	G	A	867	167.431	124.852	-24.142	1.00	53.07	A16S
ATOM	18070	C8	G	A	867	168.259	124.059	-24.767	1.00	53.07	A16S
ATOM	18071	C2*	G	A	867	167.939	121.967	-27.618	1.00	36.60	A16S
ATOM	18072	O2*	G	A	867	168.153	120.690	-28.180	1.00	36.60	A16S
ATOM	18073	C3*	G	A	867	168.978	122.915	-28.184	1.00	36.60	A16S
ATOM	18074	O3*	G	A	867	169.222	122.644	-29.564	1.00	36.60	A16S
ATOM	18075	P	C	A	868	168.484	123.520	-30.707	1.00	43.22	A16S
ATOM	18076	O1P	C	A	868	169.032	123.089	-32.035	1.00	42.24	A16S
ATOM	18077	O2P	C	A	868	168.507	124.968	-30.349	1.00	42.24	A16S
ATOM	18078	O5*	C	A	868	166.970	123.034	-30.626	1.00	43.22	A16S
ATOM	18079	C5*	C	A	868	166.658	121.638	-30.730	1.00	43.22	A16S
ATOM	18080	C4*	C	A	868	165.174	121.403	-30.581	1.00	43.22	A16S
ATOM	18081	O4*	C	A	868	164.785	121.428	-29.182	1.00	43.22	A16S
ATOM	18082	C1*	C	A	868	163.467	121.932	-29.078	1.00	43.22	A16S
ATOM	18083	N1	C	A	868	163.499	123.212	-28.343	1.00	42.24	A16S
ATOM	18084	C6	C	A	868	164.669	123.889	-28.158	1.00	42.24	A16S
ATOM	18085	C2	C	A	868	162.293	123.754	-27.875	1.00	42.24	A16S
ATOM	18086	O2	C	A	868	161.249	123.067	-27.931	1.00	42.24	A16S
ATOM	18087	N3	C	A	868	162.293	124.998	-27.349	1.00	42.24	A16S
ATOM	18088	C4	C	A	868	163.434	125.667	-27.222	1.00	42.24	A16S

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ATOM	18089	N4	C	A	868	163.376	126.896	-26.726	1.00	42.24	A16S
ATOM	18090	C5	C	A	868	164.682	125.105	-27.603	1.00	42.24	A16S
ATOM	18091	C2*	C	A	868	162.955	122.148	-30.506	1.00	43.22	A16S
ATOM	18092	O2*	C	A	868	162.377	120.957	-31.002	1.00	43.22	A16S
ATOM	18093	C3*	C	A	868	164.243	122.392	-31.259	1.00	43.22	A16S
ATOM	18094	O3*	C	A	868	164.052	122.129	-32.632	1.00	43.22	A16S
ATOM	18095	P	G	A	869	163.974	123.359	-33.661	1.00	34.74	A16S
ATOM	18096	O1P	G	A	869	163.610	122.818	-34.999	1.00	48.05	A16S
ATOM	18097	O2P	G	A	869	165.208	124.203	-33.501	1.00	48.05	A16S
ATOM	18098	O5*	G	A	869	162.734	124.223	-33.154	1.00	34.74	A16S
ATOM	18099	C5*	G	A	869	161.398	123.656	-33.069	1.00	34.74	A16S
ATOM	18100	C4*	G	A	869	160.433	124.656	-32.451	1.00	34.74	A16S
ATOM	18101	O4*	G	A	869	160.805	124.924	-31.079	1.00	34.74	A16S
ATOM	18102	C1*	G	A	869	160.568	126.281	-30.777	1.00	34.74	A16S
ATOM	18103	N9	G	A	869	161.825	126.880	-30.360	1.00	48.05	A16S
ATOM	18104	C4	G	A	869	161.965	127.930	-29.506	1.00	48.05	A16S
ATOM	18105	N3	G	A	869	160.965	128.557	-28.860	1.00	48.05	A16S
ATOM	18106	C2	G	A	869	161.409	129.560	-28.132	1.00	48.05	A16S
ATOM	18107	N2	G	A	869	160.557	130.289	-27.402	1.00	48.05	A16S
ATOM	18108	N1	G	A	869	162.728	129.923	-28.056	1.00	48.05	A16S
ATOM	18109	C6	G	A	869	163.774	129.284	-28.710	1.00	48.05	A16S
ATOM	18110	O6	G	A	869	164.939	129.689	-28.568	1.00	48.05	A16S
ATOM	18111	C5	G	A	869	163.312	128.204	-29.483	1.00	48.05	A16S
ATOM	18112	N7	G	A	869	164.009	127.314	-30.279	1.00	48.05	A16S
ATOM	18113	C8	G	A	869	163.086	126.539	-30.771	1.00	48.05	A16S
ATOM	18114	C2*	G	A	869	159.994	126.965	-32.019	1.00	34.74	A16S
ATOM	18115	O2*	G	A	869	158.595	127.126	-31.905	1.00	34.74	A16S
ATOM	18116	C3*	G	A	869	160.409	126.009	-33.128	1.00	34.74	A16S
ATOM	18117	O3*	G	A	869	159.443	125.983	-34.145	1.00	34.74	A16S
ATOM	18118	P	U	A	870	159.656	126.869	-35.452	1.00	42.53	A16S
ATOM	18119	O1P	U	A	870	160.797	126.219	-36.150	1.00	59.65	A16S
ATOM	18120	O2P	U	A	870	159.738	128.307	-35.073	1.00	59.65	A16S
ATOM	18121	O5*	U	A	870	158.314	126.647	-36.281	1.00	42.53	A16S
ATOM	18122	C5*	U	A	870	157.946	125.347	-36.728	1.00	42.53	A16S
ATOM	18123	C4*	U	A	870	156.830	125.437	-37.728	1.00	42.53	A16S
ATOM	18124	O4*	U	A	870	155.587	125.725	-37.044	1.00	42.53	A16S
ATOM	18125	C1*	U	A	870	154.943	126.826	-37.658	1.00	42.53	A16S
ATOM	18126	N1	U	A	870	154.333	127.648	-36.604	1.00	59.65	A16S
ATOM	18127	C6	U	A	870	155.056	128.036	-35.497	1.00	59.65	A16S
ATOM	18128	C2	U	A	870	153.008	128.011	-36.749	1.00	59.65	A16S
ATOM	18129	O2	U	A	870	152.336	127.697	-37.718	1.00	59.65	A16S
ATOM	18130	N3	U	A	870	152.499	128.753	-35.713	1.00	59.65	A16S
ATOM	18131	C4	U	A	870	153.168	129.155	-34.575	1.00	59.65	A16S
ATOM	18132	O4	U	A	870	152.564	129.770	-33.706	1.00	59.65	A16S
ATOM	18133	C5	U	A	870	154.531	128.754	-34.508	1.00	59.65	A16S
ATOM	18134	C2*	U	A	870	156.013	127.588	-38.435	1.00	42.53	A16S
ATOM	18135	O2*	U	A	870	155.406	128.236	-39.541	1.00	42.53	A16S
ATOM	18136	C3*	U	A	870	156.982	126.474	-38.839	1.00	42.53	A16S
ATOM	18137	O3*	U	A	870	156.582	125.920	-40.086	1.00	42.53	A16S
ATOM	18138	P	U	A	871	157.699	125.510	-41.160	1.00	45.42	A16S
ATOM	18139	O1P	U	A	871	158.803	126.510	-41.101	1.00	57.30	A16S
ATOM	18140	O2P	U	A	871	157.000	125.230	-42.453	1.00	57.30	A16S
ATOM	18141	O5*	U	A	871	158.308	124.160	-40.585	1.00	45.42	A16S
ATOM	18142	C5*	U	A	871	157.627	122.919	-40.750	1.00	45.42	A16S
ATOM	18143	C4*	U	A	871	158.548	121.796	-40.374	1.00	45.42	A16S
ATOM	18144	O4*	U	A	871	159.610	121.680	-41.364	1.00	45.42	A16S
ATOM	18145	C1*	U	A	871	160.853	121.675	-40.703	1.00	45.42	A16S
ATOM	18146	N1	U	A	871	161.870	122.286	-41.566	1.00	57.30	A16S
ATOM	18147	C6	U	A	871	161.711	123.537	-42.096	1.00	57.30	A16S
ATOM	18148	C2	U	A	871	163.013	121.552	-41.808	1.00	57.30	A16S
ATOM	18149	O2	U	A	871	163.182	120.414	-41.381	1.00	57.30	A16S
ATOM	18150	N3	U	A	871	163.959	122.190	-42.567	1.00	57.30	A16S
ATOM	18151	C4	U	A	871	163.880	123.455	-43.100	1.00	57.30	A16S
ATOM	18152	O4	U	A	871	164.873	123.942	-43.655	1.00	57.30	A16S
ATOM	18153	C5	U	A	871	162.650	124.132	-42.834	1.00	57.30	A16S
ATOM	18154	C2*	U	A	871	160.637	122.398	-39.373	1.00	45.42	A16S
ATOM	18155	O2*	U	A	871	161.580	121.966	-38.417	1.00	45.42	A16S
ATOM	18156	C3*	U	A	871	159.226	121.958	-39.010	1.00	45.42	A16S
ATOM	18157	O3*	U	A	871	159.307	120.700	-38.360	1.00	45.42	A16S
ATOM	18158	P	A	A	872	158.053	120.162	-37.520	1.00	42.07	A16S
ATOM	18159	O1P	A	A	872	158.118	118.675	-37.564	1.00	40.72	A16S
ATOM	18160	O2P	A	A	872	156.826	120.856	-38.007	1.00	40.72	A16S
ATOM	18161	O5*	A	A	872	158.358	120.658	-36.038	1.00	42.07	A16S
ATOM	18162	C5*	A	A	872	159.618	120.385	-35.451	1.00	42.07	A16S
ATOM	18163	C4*	A	A	872	159.476	120.165	-33.975	1.00	42.07	A16S
ATOM	18164	O4*	A	A	872	159.220	121.421	-33.305	1.00	42.07	A16S
ATOM	18165	C1*	A	A	872	158.289	121.196	-32.289	1.00	42.07	A16S

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ATOM	18166	N9	A	A	872	157.703	122.462	-31.856	1.00	40.72	A16S
ATOM	18167	C4	A	A	872	156.670	123.174	-32.417	1.00	40.72	A16S
ATOM	18168	N3	A	A	872	155.996	122.888	-33.541	1.00	40.72	A16S
ATOM	18169	C2	A	A	872	155.033	123.787	-33.748	1.00	40.72	A16S
ATOM	18170	N1	A	A	872	154.693	124.849	-33.009	1.00	40.72	A16S
ATOM	18171	C6	A	A	872	155.398	125.104	-31.882	1.00	40.72	A16S
ATOM	18172	N6	A	A	872	155.063	126.155	-31.126	1.00	40.72	A16S
ATOM	18173	C5	A	A	872	156.445	124.241	-31.562	1.00	40.72	A16S
ATOM	18174	N7	A	A	872	157.345	124.229	-30.508	1.00	40.72	A16S
ATOM	18175	C8	A	A	872	158.074	123.164	-30.733	1.00	40.72	A16S
ATOM	18176	C2*	A	A	872	157.366	120.123	-32.854	1.00	42.07	A16S
ATOM	18177	O2*	A	A	872	156.657	119.501	-31.789	1.00	42.07	A16S
ATOM	18178	C3*	A	A	872	158.393	119.197	-33.512	1.00	42.07	A16S
ATOM	18179	O3*	A	A	872	158.945	118.385	-32.489	1.00	42.07	A16S
ATOM	18180	P	A	A	873	159.676	117.015	-32.865	1.00	34.25	A16S
ATOM	18181	O1P	A	A	873	161.014	117.399	-33.342	1.00	49.84	A16S
ATOM	18182	O2P	A	A	873	158.807	116.150	-33.706	1.00	49.84	A16S
ATOM	18183	O5*	A	A	873	159.901	116.343	-31.446	1.00	34.25	A16S
ATOM	18184	C5*	A	A	873	158.804	116.136	-30.531	1.00	34.25	A16S
ATOM	18185	C4*	A	A	873	159.060	116.873	-29.237	1.00	34.25	A16S
ATOM	18186	O4*	A	A	873	160.466	116.727	-28.897	1.00	34.25	A16S
ATOM	18187	C1*	A	A	873	161.068	118.002	-28.793	1.00	34.25	A16S
ATOM	18188	N9	A	A	873	162.458	117.894	-29.250	1.00	49.84	A16S
ATOM	18189	C4	A	A	873	163.586	118.226	-28.530	1.00	49.84	A16S
ATOM	18190	N3	A	A	873	163.649	118.784	-27.314	1.00	49.84	A16S
ATOM	18191	C2	A	A	873	164.910	118.934	-26.924	1.00	49.84	A16S
ATOM	18192	N1	A	A	873	166.027	118.593	-27.545	1.00	49.84	A16S
ATOM	18193	C6	A	A	873	165.932	118.008	-28.757	1.00	49.84	A16S
ATOM	18194	N6	A	A	873	167.048	117.598	-29.361	1.00	49.84	A16S
ATOM	18195	C5	A	A	873	164.656	117.837	-29.304	1.00	49.84	A16S
ATOM	18196	N7	A	A	873	164.224	117.324	-30.520	1.00	49.84	A16S
ATOM	18197	C8	A	A	873	162.916	117.391	-30.444	1.00	49.84	A16S
ATOM	18198	C2*	A	A	873	160.157	118.971	-29.547	1.00	34.25	A16S
ATOM	18199	O2*	A	A	873	160.299	120.266	-28.995	1.00	34.25	A16S
ATOM	18200	C3*	A	A	873	158.777	118.372	-29.268	1.00	34.25	A16S
ATOM	18201	O3*	A	A	873	158.382	118.781	-27.943	1.00	34.25	A16S
ATOM	18202	P	G	A	874	156.882	118.511	-27.400	1.00	41.71	A16S
ATOM	18203	O1P	G	A	874	157.035	117.963	-26.025	1.00	37.84	A16S
ATOM	18204	O2P	G	A	874	156.078	117.762	-28.408	1.00	37.84	A16S
ATOM	18205	O5*	G	A	874	156.276	119.973	-27.233	1.00	41.71	A16S
ATOM	18206	C5*	G	A	874	156.745	120.842	-26.180	1.00	41.71	A16S
ATOM	18207	C4*	G	A	874	155.886	122.073	-26.117	1.00	41.71	A16S
ATOM	18208	O4*	G	A	874	156.033	122.801	-27.358	1.00	41.71	A16S
ATOM	18209	C1*	G	A	874	154.779	123.308	-27.771	1.00	41.71	A16S
ATOM	18210	N9	G	A	874	154.475	122.769	-29.094	1.00	37.84	A16S
ATOM	18211	C4	G	A	874	153.392	123.093	-29.875	1.00	37.84	A16S
ATOM	18212	N3	G	A	874	152.413	123.961	-29.552	1.00	37.84	A16S
ATOM	18213	C2	G	A	874	151.497	124.043	-30.504	1.00	37.84	A16S
ATOM	18214	N2	G	A	874	150.444	124.854	-30.353	1.00	37.84	A16S
ATOM	18215	N1	G	A	874	151.542	123.334	-31.676	1.00	37.84	A16S
ATOM	18216	C6	G	A	874	152.539	122.435	-32.025	1.00	37.84	A16S
ATOM	18217	O6	G	A	874	152.480	121.843	-33.102	1.00	37.84	A16S
ATOM	18218	C5	G	A	874	153.525	122.335	-31.019	1.00	37.84	A16S
ATOM	18219	N7	G	A	874	154.669	121.553	-30.962	1.00	37.84	A16S
ATOM	18220	C8	G	A	874	155.201	121.842	-29.804	1.00	37.84	A16S
ATOM	18221	C2*	G	A	874	153.750	122.951	-26.699	1.00	41.71	A16S
ATOM	18222	O2*	G	A	874	153.591	124.060	-25.841	1.00	41.71	A16S
ATOM	18223	C3*	G	A	874	154.410	121.753	-26.030	1.00	41.71	A16S
ATOM	18224	O3*	G	A	874	154.027	121.559	-24.682	1.00	41.71	A16S
ATOM	18225	P	C	A	875	152.850	120.516	-24.340	1.00	41.39	A16S
ATOM	18226	O1P	C	A	875	152.673	120.551	-22.859	1.00	31.21	A16S
ATOM	18227	O2P	C	A	875	153.094	119.208	-25.017	1.00	31.21	A16S
ATOM	18228	O5*	C	A	875	151.581	121.195	-25.016	1.00	41.39	A16S
ATOM	18229	C5*	C	A	875	151.078	122.432	-24.510	1.00	41.39	A16S
ATOM	18230	C4*	C	A	875	149.797	122.782	-25.197	1.00	41.39	A16S
ATOM	18231	O4*	C	A	875	150.062	123.172	-26.561	1.00	41.39	A16S
ATOM	18232	C1*	C	A	875	149.003	122.746	-27.392	1.00	41.39	A16S
ATOM	18233	N1	C	A	875	149.551	121.891	-28.447	1.00	31.21	A16S
ATOM	18234	C6	C	A	875	150.694	121.179	-28.244	1.00	31.21	A16S
ATOM	18235	C2	C	A	875	148.884	121.810	-29.654	1.00	31.21	A16S
ATOM	18236	O2	C	A	875	147.875	122.481	-29.814	1.00	31.21	A16S
ATOM	18237	N3	C	A	875	149.355	121.009	-30.623	1.00	31.21	A16S
ATOM	18238	C4	C	A	875	150.467	120.308	-30.418	1.00	31.21	A16S
ATOM	18239	N4	C	A	875	150.906	119.517	-31.399	1.00	31.21	A16S
ATOM	18240	C5	C	A	875	151.184	120.382	-29.197	1.00	31.21	A16S
ATOM	18241	C2*	C	A	875	147.977	122.031	-26.517	1.00	41.39	A16S
ATOM	18242	O2*	C	A	875	146.940	122.946	-26.218	1.00	41.39	A16S

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ATOM	18243	C3*	C	A	875	148.818	121.637	-25.306	1.00	41.39	A16S
ATOM	18244	O3*	C	A	875	148.072	121.495	-24.102	1.00	41.39	A16S
ATOM	18245	P	G	A	876	147.411	120.072	-23.743	1.00	31.20	A16S
ATOM	18246	O1P	G	A	876	146.468	120.327	-22.623	1.00	41.76	A16S
ATOM	18247	O2P	G	A	876	148.475	119.030	-23.587	1.00	41.76	A16S
ATOM	18248	O5*	G	A	876	146.566	119.744	-25.051	1.00	31.20	A16S
ATOM	18249	C5*	G	A	876	146.348	118.411	-25.485	1.00	31.20	A16S
ATOM	18250	C4*	G	A	876	145.400	118.434	-26.641	1.00	31.20	A16S
ATOM	18251	O4*	G	A	876	145.993	119.163	-27.748	1.00	31.20	A16S
ATOM	18252	C1*	G	A	876	145.542	118.617	-28.983	1.00	31.20	A16S
ATOM	18253	N9	G	A	876	146.699	118.156	-29.746	1.00	41.76	A16S
ATOM	18254	C4	G	A	876	146.739	117.932	-31.094	1.00	41.76	A16S
ATOM	18255	N3	G	A	876	145.726	118.126	-31.953	1.00	41.76	A16S
ATOM	18256	C2	G	A	876	146.061	117.814	-33.186	1.00	41.76	A16S
ATOM	18257	N2	G	A	876	145.172	117.965	-34.165	1.00	41.76	A16S
ATOM	18258	N1	G	A	876	147.290	117.341	-33.548	1.00	41.76	A16S
ATOM	18259	C6	G	A	876	148.352	117.135	-32.679	1.00	41.76	A16S
ATOM	18260	O6	G	A	876	149.430	116.700	-33.110	1.00	41.76	A16S
ATOM	18261	C5	G	A	876	148.007	117.474	-31.352	1.00	41.76	A16S
ATOM	18262	N7	G	A	876	148.758	117.422	-30.190	1.00	41.76	A16S
ATOM	18263	C8	G	A	876	147.943	117.841	-29.264	1.00	41.76	A16S
ATOM	18264	C2*	G	A	876	144.597	117.462	-28.651	1.00	31.20	A16S
ATOM	18265	O2*	G	A	876	143.256	117.925	-28.731	1.00	31.20	A16S
ATOM	18266	C3*	G	A	876	145.047	117.097	-27.237	1.00	31.20	A16S
ATOM	18267	O3*	G	A	876	144.044	116.488	-26.476	1.00	31.20	A16S
ATOM	18268	P	C	A	877	144.068	114.905	-26.284	1.00	33.96	A16S
ATOM	18269	O1P	C	A	877	143.091	114.630	-25.203	1.00	53.59	A16S
ATOM	18270	O2P	C	A	877	145.474	114.445	-26.136	1.00	53.59	A16S
ATOM	18271	O5*	C	A	877	143.502	114.356	-27.662	1.00	33.96	A16S
ATOM	18272	C5*	C	A	877	142.139	114.550	-27.987	1.00	33.96	A16S
ATOM	18273	C4*	C	A	877	141.882	114.087	-29.382	1.00	33.96	A16S
ATOM	18274	O4*	C	A	877	142.603	114.932	-30.315	1.00	33.96	A16S
ATOM	18275	C1*	C	A	877	142.958	114.171	-31.462	1.00	33.96	A16S
ATOM	18276	N1	C	A	877	144.418	114.229	-31.643	1.00	53.59	A16S
ATOM	18277	C6	C	A	877	145.257	114.438	-30.583	1.00	53.59	A16S
ATOM	18278	C2	C	A	877	144.937	114.029	-32.924	1.00	53.59	A16S
ATOM	18279	O2	C	A	877	144.157	113.879	-33.872	1.00	53.59	A16S
ATOM	18280	N3	C	A	877	146.272	113.997	-33.100	1.00	53.59	A16S
ATOM	18281	C4	C	A	877	147.085	114.155	-32.057	1.00	53.59	A16S
ATOM	18282	N4	C	A	877	148.405	114.058	-32.277	1.00	53.59	A16S
ATOM	18283	C5	C	A	877	146.584	114.404	-30.741	1.00	53.59	A16S
ATOM	18284	C2*	C	A	877	142.490	112.731	-31.228	1.00	33.96	A16S
ATOM	18285	O2*	C	A	877	141.242	112.491	-31.840	1.00	33.96	A16S
ATOM	18286	C3*	C	A	877	142.368	112.691	-29.714	1.00	33.96	A16S
ATOM	18287	O3*	C	A	877	141.466	111.692	-29.316	1.00	33.96	A16S
ATOM	18288	P	G	A	878	142.011	110.205	-29.091	1.00	31.84	A16S
ATOM	18289	O1P	G	A	878	140.867	109.444	-28.520	1.00	50.25	A16S
ATOM	18290	O2P	G	A	878	143.307	110.270	-28.349	1.00	50.25	A16S
ATOM	18291	O5*	G	A	878	142.276	109.676	-30.563	1.00	31.84	A16S
ATOM	18292	C5*	G	A	878	141.181	109.530	-31.445	1.00	31.84	A16S
ATOM	18293	C4*	G	A	878	141.641	108.947	-32.743	1.00	31.84	A16S
ATOM	18294	O4*	G	A	878	142.508	109.891	-33.419	1.00	31.84	A16S
ATOM	18295	C1*	G	A	878	143.437	109.187	-34.225	1.00	31.84	A16S
ATOM	18296	N9	G	A	878	144.791	109.575	-33.832	1.00	50.25	A16S
ATOM	18297	C4	G	A	878	145.889	109.597	-34.656	1.00	50.25	A16S
ATOM	18298	N3	G	A	878	145.907	109.242	-35.958	1.00	50.25	A16S
ATOM	18299	C2	G	A	878	147.102	109.405	-36.498	1.00	50.25	A16S
ATOM	18300	N2	G	A	878	147.304	109.091	-37.787	1.00	50.25	A16S
ATOM	18301	N1	G	A	878	148.188	109.881	-35.821	1.00	50.25	A16S
ATOM	18302	C6	G	A	878	148.196	110.243	-34.483	1.00	50.25	A16S
ATOM	18303	O6	G	A	878	149.238	110.658	-33.974	1.00	50.25	A16S
ATOM	18304	C5	G	A	878	146.920	110.069	-33.882	1.00	50.25	A16S
ATOM	18305	N7	G	A	878	146.491	110.312	-32.585	1.00	50.25	A16S
ATOM	18306	C8	G	A	878	145.223	110.003	-32.601	1.00	50.25	A16S
ATOM	18307	C2*	G	A	878	143.148	107.697	-34.048	1.00	31.84	A16S
ATOM	18308	O2*	G	A	878	142.240	107.277	-35.053	1.00	31.84	A16S
ATOM	18309	C3*	G	A	878	142.484	107.691	-32.684	1.00	31.84	A16S
ATOM	18310	O3*	G	A	878	141.760	106.511	-32.438	1.00	31.84	A16S
ATOM	18311	P	C	A	879	142.407	105.420	-31.464	1.00	35.97	A16S
ATOM	18312	O1P	C	A	879	141.364	104.450	-30.979	1.00	30.52	A16S
ATOM	18313	O2P	C	A	879	143.188	106.227	-30.477	1.00	30.52	A16S
ATOM	18314	O5*	C	A	879	143.456	104.673	-32.407	1.00	35.97	A16S
ATOM	18315	C5*	C	A	879	142.992	103.891	-33.524	1.00	35.97	A16S
ATOM	18316	C4*	C	A	879	144.121	103.565	-34.477	1.00	35.97	A16S
ATOM	18317	O4*	C	A	879	144.575	104.770	-35.154	1.00	35.97	A16S
ATOM	18318	C1*	C	A	879	145.957	104.661	-35.440	1.00	35.97	A16S
ATOM	18319	N1	C	A	879	146.697	105.604	-34.581	1.00	30.52	A16S

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ATOM	18320	C6	C	A	879	146.239	105.937	-33.334	1.00	30.52	A16S
ATOM	18321	C2	C	A	879	147.916	106.099	-35.029	1.00	30.52	A16S
ATOM	18322	O2	C	A	879	148.263	105.856	-36.189	1.00	30.52	A16S
ATOM	18323	N3	C	A	879	148.686	106.830	-34.185	1.00	30.52	A16S
ATOM	18324	C4	C	A	879	148.264	107.081	-32.946	1.00	30.52	A16S
ATOM	18325	N4	C	A	879	149.082	107.724	-32.122	1.00	30.52	A16S
ATOM	18326	C5	C	A	879	146.990	106.662	-32.490	1.00	30.52	A16S
ATOM	18327	C2*	C	A	879	146.385	103.255	-35.023	1.00	35.97	A16S
ATOM	18328	O2*	C	A	879	146.228	102.384	-36.116	1.00	35.97	A16S
ATOM	18329	C3*	C	A	879	145.394	102.960	-33.906	1.00	35.97	A16S
ATOM	18330	O3*	C	A	879	145.301	101.574	-33.604	1.00	35.97	A16S
ATOM	18331	P	C	A	880	146.241	100.957	-32.450	1.00	33.39	A16S
ATOM	18332	O1P	C	A	880	145.729	99.614	-32.065	1.00	41.30	A16S
ATOM	18333	O2P	C	A	880	146.440	101.997	-31.408	1.00	41.30	A16S
ATOM	18334	O5*	C	A	880	147.620	100.727	-33.204	1.00	33.39	A16S
ATOM	18335	C5*	C	A	880	147.627	100.093	-34.487	1.00	33.39	A16S
ATOM	18336	C4*	C	A	880	149.002	100.137	-35.089	1.00	33.39	A16S
ATOM	18337	O4*	C	A	880	149.377	101.507	-35.374	1.00	33.39	A16S
ATOM	18338	C1*	C	A	880	150.775	101.652	-35.216	1.00	33.39	A16S
ATOM	18339	N1	C	A	880	151.034	102.599	-34.124	1.00	41.30	A16S
ATOM	18340	C6	C	A	880	150.185	102.696	-33.061	1.00	41.30	A16S
ATOM	18341	C2	C	A	880	152.189	103.382	-34.176	1.00	41.30	A16S
ATOM	18342	O2	C	A	880	152.933	103.296	-35.173	1.00	41.30	A16S
ATOM	18343	N3	C	A	880	152.470	104.208	-33.147	1.00	41.30	A16S
ATOM	18344	C4	C	A	880	151.647	104.270	-32.099	1.00	41.30	A16S
ATOM	18345	N4	C	A	880	151.984	105.070	-31.081	1.00	41.30	A16S
ATOM	18346	C5	C	A	880	150.451	103.509	-32.039	1.00	41.30	A16S
ATOM	18347	C2*	C	A	880	151.339	100.280	-34.855	1.00	33.39	A16S
ATOM	18348	O2*	C	A	880	151.693	99.597	-36.039	1.00	33.39	A16S
ATOM	18349	C3*	C	A	880	150.133	99.619	-34.222	1.00	33.39	A16S
ATOM	18350	O3*	C	A	880	150.254	98.217	-34.259	1.00	33.39	A16S
ATOM	18351	P	G	A	881	150.901	97.467	-33.009	1.00	36.45	A16S
ATOM	18352	O1P	G	A	881	150.706	96.014	-33.247	1.00	37.22	A16S
ATOM	18353	O2P	G	A	881	150.390	98.081	-31.758	1.00	37.22	A16S
ATOM	18354	O5*	G	A	881	152.435	97.889	-33.075	1.00	36.45	A16S
ATOM	18355	C5*	G	A	881	153.301	97.434	-34.126	1.00	36.45	A16S
ATOM	18356	C4*	G	A	881	154.725	97.900	-33.875	1.00	36.45	A16S
ATOM	18357	O4*	G	A	881	154.809	99.344	-34.045	1.00	36.45	A16S
ATOM	18358	C1*	G	A	881	155.752	99.888	-33.127	1.00	36.45	A16S
ATOM	18359	N9	G	A	881	155.047	100.770	-32.196	1.00	37.22	A16S
ATOM	18360	C4	G	A	881	155.610	101.692	-31.337	1.00	37.22	A16S
ATOM	18361	N3	G	A	881	156.916	102.013	-31.259	1.00	37.22	A16S
ATOM	18362	C2	G	A	881	157.141	102.930	-30.329	1.00	37.22	A16S
ATOM	18363	N2	G	A	881	158.377	103.403	-30.137	1.00	37.22	A16S
ATOM	18364	N1	G	A	881	156.171	103.462	-29.517	1.00	37.22	A16S
ATOM	18365	C6	G	A	881	154.828	103.124	-29.557	1.00	37.22	A16S
ATOM	18366	O6	G	A	881	154.039	103.622	-28.731	1.00	37.22	A16S
ATOM	18367	C5	G	A	881	154.563	102.176	-30.589	1.00	37.22	A16S
ATOM	18368	N7	G	A	881	153.365	101.616	-31.001	1.00	37.22	A16S
ATOM	18369	C8	G	A	881	153.698	100.800	-31.960	1.00	37.22	A16S
ATOM	18370	C2*	G	A	881	156.373	98.712	-32.370	1.00	36.45	A16S
ATOM	18371	O2*	G	A	881	157.557	98.320	-33.028	1.00	36.45	A16S
ATOM	18372	C3*	G	A	881	155.274	97.661	-32.474	1.00	36.45	A16S
ATOM	18373	O3*	G	A	881	155.745	96.337	-32.250	1.00	36.45	A16S
ATOM	18374	P	C	A	882	155.716	95.731	-30.751	1.00	34.45	A16S
ATOM	18375	O1P	C	A	882	156.319	94.358	-30.816	1.00	42.96	A16S
ATOM	18376	O2P	C	A	882	154.352	95.902	-30.171	1.00	42.96	A16S
ATOM	18377	O5*	C	A	882	156.726	96.679	-29.959	1.00	34.45	A16S
ATOM	18378	C5*	C	A	882	158.099	96.728	-30.350	1.00	34.45	A16S
ATOM	18379	C4*	C	A	882	158.859	97.765	-29.570	1.00	34.45	A16S
ATOM	18380	O4*	C	A	882	158.294	99.086	-29.795	1.00	34.45	A16S
ATOM	18381	C1*	C	A	882	158.431	99.866	-28.610	1.00	34.45	A16S
ATOM	18382	N1	C	A	882	157.083	100.185	-28.088	1.00	42.96	A16S
ATOM	18383	C6	C	A	882	156.024	99.361	-28.349	1.00	42.96	A16S
ATOM	18384	C2	C	A	882	156.906	101.333	-27.307	1.00	42.96	A16S
ATOM	18385	O2	C	A	882	157.873	102.077	-27.101	1.00	42.96	A16S
ATOM	18386	N3	C	A	882	155.682	101.601	-26.802	1.00	42.96	A16S
ATOM	18387	C4	C	A	882	154.661	100.778	-27.058	1.00	42.96	A16S
ATOM	18388	N4	C	A	882	153.469	101.070	-26.538	1.00	42.96	A16S
ATOM	18389	C5	C	A	882	154.813	99.617	-27.856	1.00	42.96	A16S
ATOM	18390	C2*	C	A	882	159.213	99.019	-27.606	1.00	34.45	A16S
ATOM	18391	O2*	C	A	882	160.596	99.287	-27.756	1.00	34.45	A16S
ATOM	18392	C3*	C	A	882	158.867	97.612	-28.066	1.00	34.45	A16S
ATOM	18393	O3*	C	A	882	159.823	96.679	-27.633	1.00	34.45	A16S
ATOM	18394	P	C	A	883	159.719	96.090	-26.142	1.00	44.04	A16S
ATOM	18395	O1P	C	A	883	160.753	95.026	-26.011	1.00	49.22	A16S
ATOM	18396	O2P	C	A	883	158.298	95.767	-25.865	1.00	49.22	A16S

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ATOM	18397	O5*	C	A	883	160.138	97.315	-25.214	1.00	44.04	A16S
ATOM	18398	C5*	C	A	883	161.423	97.951	-25.383	1.00	44.04	A16S
ATOM	18399	C4*	C	A	883	161.734	98.819	-24.194	1.00	44.04	A16S
ATOM	18400	O4*	C	A	883	160.936	100.024	-24.216	1.00	44.04	A16S
ATOM	18401	C1*	C	A	883	160.464	100.307	-22.914	1.00	44.04	A16S
ATOM	18402	N1	C	A	883	158.987	100.308	-22.953	1.00	49.22	A16S
ATOM	18403	C6	C	A	883	158.311	99.753	-24.006	1.00	49.22	A16S
ATOM	18404	C2	C	A	883	158.287	100.899	-21.909	1.00	49.22	A16S
ATOM	18405	O2	C	A	883	158.919	101.374	-20.962	1.00	49.22	A16S
ATOM	18406	N3	C	A	883	156.939	100.940	-21.957	1.00	49.22	A16S
ATOM	18407	C4	C	A	883	156.294	100.417	-22.996	1.00	49.22	A16S
ATOM	18408	N4	C	A	883	154.967	100.497	-23.010	1.00	49.22	A16S
ATOM	18409	C5	C	A	883	156.979	99.792	-24.069	1.00	49.22	A16S
ATOM	18410	C2*	C	A	883	161.093	99.291	-21.955	1.00	44.04	A16S
ATOM	18411	O2*	C	A	883	162.281	99.839	-21.439	1.00	44.04	A16S
ATOM	18412	C3*	C	A	883	161.420	98.136	-22.885	1.00	44.04	A16S
ATOM	18413	O3*	C	A	883	162.592	97.475	-22.482	1.00	44.04	A16S
ATOM	18414	P	U	A	884	162.486	96.203	-21.528	1.00	45.11	A16S
ATOM	18415	O1P	U	A	884	163.877	95.700	-21.352	1.00	50.86	A16S
ATOM	18416	O2P	U	A	884	161.421	95.299	-22.034	1.00	50.86	A16S
ATOM	18417	O5*	U	A	884	162.018	96.816	-20.142	1.00	45.11	A16S
ATOM	18418	C5*	U	A	884	162.828	97.791	-19.495	1.00	45.11	A16S
ATOM	18419	C4*	U	A	884	162.211	98.185	-18.192	1.00	45.11	A16S
ATOM	18420	O4*	U	A	884	161.002	98.960	-18.420	1.00	45.11	A16S
ATOM	18421	C1*	U	A	884	159.967	98.446	-17.620	1.00	45.11	A16S
ATOM	18422	N1	U	A	884	158.681	98.724	-18.275	1.00	50.86	A16S
ATOM	18423	C6	U	A	884	158.289	98.073	-19.410	1.00	50.86	A16S
ATOM	18424	C2	U	A	884	157.876	99.683	-17.701	1.00	50.86	A16S
ATOM	18425	O2	U	A	884	158.192	100.299	-16.701	1.00	50.86	A16S
ATOM	18426	N3	U	A	884	156.690	99.907	-18.347	1.00	50.86	A16S
ATOM	18427	C4	U	A	884	156.243	99.296	-19.489	1.00	50.86	A16S
ATOM	18428	O4	U	A	884	155.184	99.661	-19.998	1.00	50.86	A16S
ATOM	18429	C5	U	A	884	157.130	98.322	-20.021	1.00	50.86	A16S
ATOM	18430	C2*	U	A	884	160.312	96.976	-17.393	1.00	45.11	A16S
ATOM	18431	O2*	U	A	884	159.704	96.519	-16.204	1.00	45.11	A16S
ATOM	18432	C3*	U	A	884	161.833	97.031	-17.279	1.00	45.11	A16S
ATOM	18433	O3*	U	A	884	162.194	97.379	-15.962	1.00	45.11	A16S
ATOM	18434	P	G	A	885	163.125	96.393	-15.104	1.00	40.40	A16S
ATOM	18435	O1P	G	A	885	163.077	95.031	-15.706	1.00	44.90	A16S
ATOM	18436	O2P	G	A	885	162.711	96.591	-13.679	1.00	44.90	A16S
ATOM	18437	O5*	G	A	885	164.605	96.964	-15.278	1.00	40.40	A16S
ATOM	18438	C5*	G	A	885	164.826	98.371	-15.485	1.00	40.40	A16S
ATOM	18439	C4*	G	A	885	166.192	98.783	-14.989	1.00	40.40	A16S
ATOM	18440	O4*	G	A	885	166.276	98.614	-13.551	1.00	40.40	A16S
ATOM	18441	C1*	G	A	885	167.608	98.284	-13.185	1.00	40.40	A16S
ATOM	18442	N9	G	A	885	167.608	96.947	-12.591	1.00	44.90	A16S
ATOM	18443	C4	G	A	885	168.657	96.326	-11.946	1.00	44.90	A16S
ATOM	18444	N3	G	A	885	169.878	96.847	-11.738	1.00	44.90	A16S
ATOM	18445	C2	G	A	885	170.680	95.993	-11.130	1.00	44.90	A16S
ATOM	18446	N2	G	A	885	171.937	96.340	-10.870	1.00	44.90	A16S
ATOM	18447	N1	G	A	885	170.311	94.735	-10.740	1.00	44.90	A16S
ATOM	18448	C6	G	A	885	169.061	94.175	-10.950	1.00	44.90	A16S
ATOM	18449	O6	G	A	885	168.834	93.014	-10.583	1.00	44.90	A16S
ATOM	18450	C5	G	A	885	168.191	95.077	-11.606	1.00	44.90	A16S
ATOM	18451	N7	G	A	885	166.876	94.916	-12.013	1.00	44.90	A16S
ATOM	18452	C8	G	A	885	166.571	96.050	-12.585	1.00	44.90	A16S
ATOM	18453	C2*	G	A	885	168.441	98.317	-14.465	1.00	40.40	A16S
ATOM	18454	O2*	G	A	885	168.976	99.619	-14.649	1.00	40.40	A16S
ATOM	18455	C3*	G	A	885	167.384	98.003	-15.509	1.00	40.40	A16S
ATOM	18456	O3*	G	A	885	167.787	98.393	-16.803	1.00	40.40	A16S
ATOM	18457	P	G	A	886	168.456	97.298	-17.769	1.00	40.07	A16S
ATOM	18458	O1P	G	A	886	168.651	97.937	-19.103	1.00	40.19	A16S
ATOM	18459	O2P	G	A	886	167.679	96.028	-17.655	1.00	40.19	A16S
ATOM	18460	O5*	G	A	886	169.891	97.037	-17.132	1.00	40.07	A16S
ATOM	18461	C5*	G	A	886	170.881	98.066	-17.160	1.00	40.07	A16S
ATOM	18462	C4*	G	A	886	172.176	97.575	-16.574	1.00	40.07	A16S
ATOM	18463	O4*	G	A	886	172.009	97.311	-15.159	1.00	40.07	A16S
ATOM	18464	C1*	G	A	886	172.911	96.306	-14.759	1.00	40.07	A16S
ATOM	18465	N9	G	A	886	172.157	95.161	-14.265	1.00	40.19	A16S
ATOM	18466	C4	G	A	886	172.689	94.066	-13.647	1.00	40.19	A16S
ATOM	18467	N3	G	A	886	173.989	93.882	-13.370	1.00	40.19	A16S
ATOM	18468	C2	G	A	886	174.207	92.720	-12.791	1.00	40.19	A16S
ATOM	18469	N2	G	A	886	175.463	92.377	-12.444	1.00	40.19	A16S
ATOM	18470	N1	G	A	886	173.220	91.809	-12.507	1.00	40.19	A16S
ATOM	18471	C6	G	A	886	171.873	91.980	-12.789	1.00	40.19	A16S
ATOM	18472	O6	G	A	886	171.064	91.087	-12.503	1.00	40.19	A16S
ATOM	18473	C5	G	A	886	171.630	93.226	-13.406	1.00	40.19	A16S

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ATOM	18474	N7	G	A	886	170.446	93.790	-13.848	1.00	40.19	A16S
ATOM	18475	C8	G	A	886	170.807	94.942	-14.346	1.00	40.19	A16S
ATOM	18476	C2*	G	A	886	173.715	95.913	-15.993	1.00	40.07	A16S
ATOM	18477	O2*	G	A	886	174.861	96.737	-16.038	1.00	40.07	A16S
ATOM	18478	C3*	G	A	886	172.753	96.279	-17.108	1.00	40.07	A16S
ATOM	18479	O3*	G	A	886	173.427	96.428	-18.353	1.00	40.07	A16S
ATOM	18480	P	G	A	887	173.415	95.207	-19.411	1.00	50.11	A16S
ATOM	18481	O1P	G	A	887	174.100	95.721	-20.638	1.00	44.21	A16S
ATOM	18482	O2P	G	A	887	172.042	94.656	-19.510	1.00	44.21	A16S
ATOM	18483	O5*	G	A	887	174.300	94.075	-18.715	1.00	50.11	A16S
ATOM	18484	C5*	G	A	887	175.674	94.332	-18.384	1.00	50.11	A16S
ATOM	18485	C4*	G	A	887	176.291	93.146	-17.686	1.00	50.11	A16S
ATOM	18486	O4*	G	A	887	175.728	92.998	-16.359	1.00	50.11	A16S
ATOM	18487	C1*	G	A	887	175.754	91.628	-15.993	1.00	50.11	A16S
ATOM	18488	N9	G	A	887	174.386	91.166	-15.782	1.00	44.21	A16S
ATOM	18489	C4	G	A	887	174.046	89.985	-15.192	1.00	44.21	A16S
ATOM	18490	N3	G	A	887	174.911	89.104	-14.663	1.00	44.21	A16S
ATOM	18491	C2	G	A	887	174.302	88.031	-14.211	1.00	44.21	A16S
ATOM	18492	N2	G	A	887	175.034	87.041	-13.671	1.00	44.21	A16S
ATOM	18493	N1	G	A	887	172.941	87.846	-14.261	1.00	44.21	A16S
ATOM	18494	C6	G	A	887	172.032	88.748	-14.799	1.00	44.21	A16S
ATOM	18495	O6	G	A	887	170.824	88.484	-14.797	1.00	44.21	A16S
ATOM	18496	C5	G	A	887	172.679	89.898	-15.297	1.00	44.21	A16S
ATOM	18497	N7	G	A	887	172.160	91.028	-15.912	1.00	44.21	A16S
ATOM	18498	C8	G	A	887	173.209	91.762	-16.169	1.00	44.21	A16S
ATOM	18499	C2*	G	A	887	176.361	90.836	-17.155	1.00	50.11	A16S
ATOM	18500	O2*	G	A	887	177.728	90.544	-16.918	1.00	50.11	A16S
ATOM	18501	C3*	G	A	887	176.120	91.776	-18.330	1.00	50.11	A16S
ATOM	18502	O3*	G	A	887	177.062	91.536	-19.363	1.00	50.11	A16S
ATOM	18503	P	G	A	888	176.676	90.566	-20.588	1.00	44.54	A16S
ATOM	18504	O1P	G	A	888	177.960	90.305	-21.294	1.00	50.38	A16S
ATOM	18505	O2P	G	A	888	175.543	91.169	-21.346	1.00	50.38	A16S
ATOM	18506	O5*	G	A	888	176.179	89.212	-19.894	1.00	44.54	A16S
ATOM	18507	C5*	G	A	888	177.118	88.316	-19.274	1.00	44.54	A16S
ATOM	18508	C4*	G	A	888	176.433	87.050	-18.810	1.00	44.54	A16S
ATOM	18509	O4*	G	A	888	175.482	87.374	-17.772	1.00	44.54	A16S
ATOM	18510	C1*	G	A	888	174.321	86.575	-17.908	1.00	44.54	A16S
ATOM	18511	N9	G	A	888	173.224	87.481	-18.239	1.00	50.38	A16S
ATOM	18512	C4	G	A	888	171.885	87.332	-17.966	1.00	50.38	A16S
ATOM	18513	N3	G	A	888	171.308	86.289	-17.335	1.00	50.38	A16S
ATOM	18514	C2	G	A	888	169.999	86.439	-17.231	1.00	50.38	A16S
ATOM	18515	N2	G	A	888	169.261	85.492	-16.639	1.00	50.38	A16S
ATOM	18516	N1	G	A	888	169.316	87.532	-17.699	1.00	50.38	A16S
ATOM	18517	C6	G	A	888	169.897	88.629	-18.341	1.00	50.38	A16S
ATOM	18518	O6	G	A	888	169.191	89.601	-18.711	1.00	50.38	A16S
ATOM	18519	C5	G	A	888	171.286	88.468	-18.470	1.00	50.38	A16S
ATOM	18520	N7	G	A	888	172.221	89.302	-19.049	1.00	50.38	A16S
ATOM	18521	C8	G	A	888	173.352	88.680	-18.892	1.00	50.38	A16S
ATOM	18522	C2*	G	A	888	174.618	85.539	-18.992	1.00	44.54	A16S
ATOM	18523	O2*	G	A	888	175.187	84.405	-18.371	1.00	44.54	A16S
ATOM	18524	C3*	G	A	888	175.648	86.269	-19.847	1.00	44.54	A16S
ATOM	18525	O3*	G	A	888	176.505	85.347	-20.514	1.00	44.54	A16S
ATOM	18526	P	A	A	889	176.219	84.935	-22.048	1.00	53.61	A16S
ATOM	18527	O1P	A	A	889	175.111	83.929	-22.091	1.00	50.83	A16S
ATOM	18528	O2P	A	A	889	177.528	84.607	-22.664	1.00	50.83	A16S
ATOM	18529	O5*	A	A	889	175.723	86.281	-22.723	1.00	53.61	A16S
ATOM	18530	C5*	A	A	889	175.788	86.446	-24.132	1.00	53.61	A16S
ATOM	18531	C4*	A	A	889	174.760	87.444	-24.557	1.00	53.61	A16S
ATOM	18532	O4*	A	A	889	173.453	86.910	-24.239	1.00	53.61	A16S
ATOM	18533	C1*	A	A	889	172.759	87.832	-23.437	1.00	53.61	A16S
ATOM	18534	N9	A	A	889	171.864	87.101	-22.545	1.00	50.83	A16S
ATOM	18535	C4	A	A	889	170.540	87.399	-22.359	1.00	50.83	A16S
ATOM	18536	N3	A	A	889	169.839	88.382	-22.948	1.00	50.83	A16S
ATOM	18537	C2	A	A	889	168.584	88.380	-22.522	1.00	50.83	A16S
ATOM	18538	N1	A	A	889	167.992	87.565	-21.644	1.00	50.83	A16S
ATOM	18539	C6	A	A	889	168.725	86.579	-21.079	1.00	50.83	A16S
ATOM	18540	N6	A	A	889	168.132	85.757	-20.211	1.00	50.83	A16S
ATOM	18541	C5	A	A	889	170.072	86.480	-21.445	1.00	50.83	A16S
ATOM	18542	N7	A	A	889	171.079	85.607	-21.067	1.00	50.83	A16S
ATOM	18543	C8	A	A	889	172.121	86.020	-21.746	1.00	50.83	A16S
ATOM	18544	C2*	A	A	889	173.817	88.701	-22.761	1.00	53.61	A16S
ATOM	18545	O2*	A	A	889	173.280	89.976	-22.483	1.00	53.61	A16S
ATOM	18546	C3*	A	A	889	174.859	88.798	-23.863	1.00	53.61	A16S
ATOM	18547	O3*	A	A	889	174.397	89.781	-24.763	1.00	53.61	A16S
ATOM	18548	P	G	A	890	175.397	90.407	-25.838	1.00	54.60	A16S
ATOM	18549	O1P	G	A	890	176.285	89.314	-26.323	1.00	56.32	A16S
ATOM	18550	O2P	G	A	890	175.985	91.623	-25.231	1.00	56.32	A16S

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ATOM	18551	O5*	G	A	890	174.423	90.873	-27.013	1.00	54.60	A16S
ATOM	18552	C5*	G	A	890	174.326	90.137	-28.259	1.00	54.60	A16S
ATOM	18553	C4*	G	A	890	173.187	89.130	-28.203	1.00	54.60	A16S
ATOM	18554	O4*	G	A	890	171.940	89.755	-27.782	1.00	54.60	A16S
ATOM	18555	C1*	G	A	890	170.912	89.340	-28.649	1.00	54.60	A16S
ATOM	18556	N9	G	A	890	169.787	90.259	-28.547	1.00	56.32	A16S
ATOM	18557	C4	G	A	890	168.638	90.039	-27.823	1.00	56.32	A16S
ATOM	18558	N3	G	A	890	168.351	88.929	-27.114	1.00	56.32	A16S
ATOM	18559	C2	G	A	890	167.183	89.011	-26.514	1.00	56.32	A16S
ATOM	18560	N2	G	A	890	166.732	87.986	-25.799	1.00	56.32	A16S
ATOM	18561	N1	G	A	890	166.363	90.103	-26.580	1.00	56.32	A16S
ATOM	18562	C6	G	A	890	166.629	91.262	-27.306	1.00	56.32	A16S
ATOM	18563	O6	G	A	890	165.801	92.205	-27.303	1.00	56.32	A16S
ATOM	18564	C5	G	A	890	167.885	91.175	-27.976	1.00	56.32	A16S
ATOM	18565	N7	G	A	890	168.534	92.085	-28.797	1.00	56.32	A16S
ATOM	18566	C8	G	A	890	169.656	91.496	-29.114	1.00	56.32	A16S
ATOM	18567	C2*	G	A	890	171.608	89.150	-29.987	1.00	54.60	A16S
ATOM	18568	O2*	G	A	890	170.838	88.362	-30.855	1.00	54.60	A16S
ATOM	18569	C3*	G	A	890	172.868	88.433	-29.523	1.00	54.60	A16S
ATOM	18570	O3*	G	A	890	172.517	87.088	-29.215	1.00	54.60	A16S
ATOM	18571	P	U	A	891	172.718	85.925	-30.309	1.00	47.69	A16S
ATOM	18572	O1P	U	A	891	173.799	86.356	-31.244	1.00	52.23	A16S
ATOM	18573	O2P	U	A	891	171.383	85.523	-30.862	1.00	52.23	A16S
ATOM	18574	O5*	U	A	891	173.247	84.706	-29.434	1.00	47.69	A16S
ATOM	18575	C5*	U	A	891	174.558	84.726	-28.868	1.00	47.69	A16S
ATOM	18576	C4*	U	A	891	174.569	83.974	-27.564	1.00	47.69	A16S
ATOM	18577	O4*	U	A	891	174.078	84.818	-26.494	1.00	47.69	A16S
ATOM	18578	C1*	U	A	891	173.377	84.029	-25.552	1.00	47.69	A16S
ATOM	18579	N1	U	A	891	172.009	84.560	-25.423	1.00	52.23	A16S
ATOM	18580	C6	U	A	891	171.539	85.549	-26.254	1.00	52.23	A16S
ATOM	18581	C2	U	A	891	171.196	84.023	-24.430	1.00	52.23	A16S
ATOM	18582	O2	U	A	891	171.560	83.148	-23.662	1.00	52.23	A16S
ATOM	18583	N3	U	A	891	169.937	84.548	-24.370	1.00	52.23	A16S
ATOM	18584	C4	U	A	891	169.411	85.522	-25.170	1.00	52.23	A16S
ATOM	18585	O4	U	A	891	168.241	85.854	-25.007	1.00	52.23	A16S
ATOM	18586	C5	U	A	891	170.305	86.034	-26.164	1.00	52.23	A16S
ATOM	18587	C2*	U	A	891	173.430	82.569	-26.022	1.00	47.69	A16S
ATOM	18588	O2*	U	A	891	174.445	81.879	-25.320	1.00	47.69	A16S
ATOM	18589	C3*	U	A	891	173.705	82.726	-27.517	1.00	47.69	A16S
ATOM	18590	O3*	U	A	891	174.368	81.603	-28.096	1.00	47.69	A16S
ATOM	18591	P	A	A	892	173.502	80.410	-28.753	1.00	53.80	A16S
ATOM	18592	O1P	A	A	892	174.471	79.372	-29.200	1.00	39.41	A16S
ATOM	18593	O2P	A	A	892	172.514	80.966	-29.725	1.00	39.41	A16S
ATOM	18594	O5*	A	A	892	172.709	79.784	-27.525	1.00	53.80	A16S
ATOM	18595	C5*	A	A	892	173.418	79.093	-26.500	1.00	53.80	A16S
ATOM	18596	C4*	A	A	892	172.458	78.362	-25.615	1.00	53.80	A16S
ATOM	18597	O4*	A	A	892	171.764	79.308	-24.770	1.00	53.80	A16S
ATOM	18598	C1*	A	A	892	170.441	78.855	-24.539	1.00	53.80	A16S
ATOM	18599	N9	A	A	892	169.520	79.882	-25.030	1.00	39.41	A16S
ATOM	18600	C4	A	A	892	168.201	80.013	-24.684	1.00	39.41	A16S
ATOM	18601	N3	A	A	892	167.501	79.230	-23.844	1.00	39.41	A16S
ATOM	18602	C2	A	A	892	166.249	79.663	-23.750	1.00	39.41	A16S
ATOM	18603	N1	A	A	892	165.668	80.720	-24.351	1.00	39.41	A16S
ATOM	18604	C6	A	A	892	166.415	81.484	-25.184	1.00	39.41	A16S
ATOM	18605	N6	A	A	892	165.856	82.542	-25.771	1.00	39.41	A16S
ATOM	18606	C5	A	A	892	167.740	81.120	-25.375	1.00	39.41	A16S
ATOM	18607	N7	A	A	892	168.742	81.670	-26.150	1.00	39.41	A16S
ATOM	18608	C8	A	A	892	169.777	80.903	-25.912	1.00	39.41	A16S
ATOM	18609	C2*	A	A	892	170.276	77.515	-25.260	1.00	53.80	A16S
ATOM	18610	O2*	A	A	892	170.511	76.437	-24.373	1.00	53.80	A16S
ATOM	18611	C3*	A	A	892	171.353	77.611	-26.329	1.00	53.80	A16S
ATOM	18612	O3*	A	A	892	171.759	76.339	-26.794	1.00	53.80	A16S
ATOM	18613	P	C	A	893	171.004	75.694	-28.056	1.00	52.93	A16S
ATOM	18614	O1P	C	A	893	171.595	74.352	-28.237	1.00	40.28	A16S
ATOM	18615	O2P	C	A	893	171.039	76.673	-29.181	1.00	40.28	A16S
ATOM	18616	O5*	C	A	893	169.494	75.540	-27.563	1.00	52.93	A16S
ATOM	18617	C5*	C	A	893	169.168	74.684	-26.457	1.00	52.93	A16S
ATOM	18618	C4*	C	A	893	167.683	74.706	-26.191	1.00	52.93	A16S
ATOM	18619	O4*	C	A	893	167.293	75.963	-25.578	1.00	52.93	A16S
ATOM	18620	C1*	C	A	893	165.995	76.332	-26.020	1.00	52.93	A16S
ATOM	18621	N1	C	A	893	166.094	77.640	-26.697	1.00	40.28	A16S
ATOM	18622	C6	C	A	893	167.232	77.978	-27.373	1.00	40.28	A16S
ATOM	18623	C2	C	A	893	164.997	78.552	-26.650	1.00	40.28	A16S
ATOM	18624	O2	C	A	893	163.969	78.259	-26.013	1.00	40.28	A16S
ATOM	18625	N3	C	A	893	165.107	79.738	-27.299	1.00	40.28	A16S
ATOM	18626	C4	C	A	893	166.230	80.043	-27.946	1.00	40.28	A16S
ATOM	18627	N4	C	A	893	166.293	81.221	-28.544	1.00	40.28	A16S

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ATOM	18628	C5	C	A	893	167.339	79.155	-28.001	1.00	40.28	A16S
ATOM	18629	C2*	C	A	893	165.490	75.219	-26.943	1.00	52.93	A16S
ATOM	18630	O2*	C	A	893	164.693	74.322	-26.196	1.00	52.93	A16S
ATOM	18631	C3*	C	A	893	166.798	74.591	-27.417	1.00	52.93	A16S
ATOM	18632	O3*	C	A	893	166.666	73.242	-27.857	1.00	52.93	A16S
ATOM	18633	P	G	A	894	166.534	72.934	-29.437	1.00	48.69	A16S
ATOM	18634	O1P	G	A	894	166.612	71.443	-29.586	1.00	50.16	A16S
ATOM	18635	O2P	G	A	894	167.468	73.808	-30.224	1.00	50.16	A16S
ATOM	18636	O5*	G	A	894	165.060	73.420	-29.781	1.00	48.69	A16S
ATOM	18637	C5*	G	A	894	163.937	72.842	-29.120	1.00	48.69	A16S
ATOM	18638	C4*	G	A	894	162.697	73.621	-29.441	1.00	48.69	A16S
ATOM	18639	O4*	G	A	894	162.726	74.907	-28.774	1.00	48.69	A16S
ATOM	18640	C1*	G	A	894	162.081	75.870	-29.591	1.00	48.69	A16S
ATOM	18641	N9	G	A	894	163.039	76.917	-29.940	1.00	50.16	A16S
ATOM	18642	C4	G	A	894	162.733	78.179	-30.401	1.00	50.16	A16S
ATOM	18643	N3	G	A	894	161.492	78.675	-30.590	1.00	50.16	A16S
ATOM	18644	C2	G	A	894	161.524	79.920	-31.027	1.00	50.16	A16S
ATOM	18645	N2	G	A	894	160.385	80.583	-31.244	1.00	50.16	A16S
ATOM	18646	N1	G	A	894	162.673	80.615	-31.277	1.00	50.16	A16S
ATOM	18647	C6	G	A	894	163.960	80.128	-31.093	1.00	50.16	A16S
ATOM	18648	O6	G	A	894	164.941	80.853	-31.348	1.00	50.16	A16S
ATOM	18649	C5	G	A	894	163.946	78.796	-30.610	1.00	50.16	A16S
ATOM	18650	N7	G	A	894	164.994	77.947	-30.285	1.00	50.16	A16S
ATOM	18651	C8	G	A	894	164.410	76.846	-29.892	1.00	50.16	A16S
ATOM	18652	C2*	G	A	894	161.581	75.152	-30.842	1.00	48.69	A16S
ATOM	18653	O2*	G	A	894	160.261	74.707	-30.639	1.00	48.69	A16S
ATOM	18654	C3*	G	A	894	162.522	73.969	-30.906	1.00	48.69	A16S
ATOM	18655	O3*	G	A	894	161.972	72.911	-31.665	1.00	48.69	A16S
ATOM	18656	P	G	A	895	162.309	72.809	-33.240	1.00	45.17	A16S
ATOM	18657	O1P	G	A	895	161.711	71.517	-33.694	1.00	44.13	A16S
ATOM	18658	O2P	G	A	895	163.778	73.054	-33.438	1.00	44.13	A16S
ATOM	18659	O5*	G	A	895	161.490	74.019	-33.899	1.00	45.17	A16S
ATOM	18660	C5*	G	A	895	160.055	74.078	-33.786	1.00	45.17	A16S
ATOM	18661	C4*	G	A	895	159.536	75.416	-34.242	1.00	45.17	A16S
ATOM	18662	O4*	G	A	895	160.079	76.459	-33.403	1.00	45.17	A16S
ATOM	18663	C1*	G	A	895	160.263	77.642	-34.162	1.00	45.17	A16S
ATOM	18664	N9	G	A	895	161.667	78.045	-34.095	1.00	44.13	A16S
ATOM	18665	C4	G	A	895	162.179	79.262	-34.483	1.00	44.13	A16S
ATOM	18666	N3	G	A	895	161.473	80.296	-34.968	1.00	44.13	A16S
ATOM	18667	C2	G	A	895	162.249	81.311	-35.287	1.00	44.13	A16S
ATOM	18668	N2	G	A	895	161.714	82.418	-35.807	1.00	44.13	A16S
ATOM	18669	N1	G	A	895	163.600	81.313	-35.127	1.00	44.13	A16S
ATOM	18670	C6	G	A	895	164.342	80.259	-34.626	1.00	44.13	A16S
ATOM	18671	O6	G	A	895	165.556	80.359	-34.534	1.00	44.13	A16S
ATOM	18672	C5	G	A	895	163.535	79.169	-34.287	1.00	44.13	A16S
ATOM	18673	N7	G	A	895	163.877	77.930	-33.765	1.00	44.13	A16S
ATOM	18674	C8	G	A	895	162.738	77.298	-33.663	1.00	44.13	A16S
ATOM	18675	C2*	G	A	895	159.819	77.347	-35.591	1.00	45.17	A16S
ATOM	18676	O2*	G	A	895	158.505	77.815	-35.757	1.00	45.17	A16S
ATOM	18677	C3*	G	A	895	159.919	75.830	-35.643	1.00	45.17	A16S
ATOM	18678	O3*	G	A	895	159.035	75.280	-36.597	1.00	45.17	A16S
ATOM	18679	P	C	A	896	159.592	74.886	-38.057	1.00	50.83	A16S
ATOM	18680	O1P	C	A	896	158.487	74.089	-38.672	1.00	37.32	A16S
ATOM	18681	O2P	C	A	896	160.949	74.276	-37.933	1.00	37.32	A16S
ATOM	18682	O5*	C	A	896	159.737	76.291	-38.805	1.00	50.83	A16S
ATOM	18683	C5*	C	A	896	158.574	77.090	-39.045	1.00	50.83	A16S
ATOM	18684	C4*	C	A	896	158.946	78.457	-39.556	1.00	50.83	A16S
ATOM	18685	O4*	C	A	896	159.556	79.240	-38.505	1.00	50.83	A16S
ATOM	18686	C1*	C	A	896	160.498	80.137	-39.072	1.00	50.83	A16S
ATOM	18687	N1	C	A	896	161.837	79.810	-38.559	1.00	37.32	A16S
ATOM	18688	C6	C	A	896	162.087	78.607	-37.965	1.00	37.32	A16S
ATOM	18689	C2	C	A	896	162.865	80.749	-38.714	1.00	37.32	A16S
ATOM	18690	O2	C	A	896	162.599	81.860	-39.224	1.00	37.32	A16S
ATOM	18691	N3	C	A	896	164.111	80.424	-38.302	1.00	37.32	A16S
ATOM	18692	C4	C	A	896	164.337	79.238	-37.742	1.00	37.32	A16S
ATOM	18693	N4	C	A	896	165.562	78.956	-37.359	1.00	37.32	A16S
ATOM	18694	C5	C	A	896	163.310	78.288	-37.549	1.00	37.32	A16S
ATOM	18695	C2*	C	A	896	160.468	79.942	-40.585	1.00	50.83	A16S
ATOM	18696	O2*	C	A	896	159.603	80.892	-41.175	1.00	50.83	A16S
ATOM	18697	C3*	C	A	896	159.942	78.521	-40.695	1.00	50.83	A16S
ATOM	18698	O3*	C	A	896	159.362	78.289	-41.960	1.00	50.83	A16S
ATOM	18699	P	C	A	897	160.241	77.581	-43.097	1.00	56.27	A16S
ATOM	18700	O1P	C	A	897	159.352	77.349	-44.275	1.00	44.58	A16S
ATOM	18701	O2P	C	A	897	160.953	76.435	-42.461	1.00	44.58	A16S
ATOM	18702	O5*	C	A	897	161.305	78.696	-43.492	1.00	56.27	A16S
ATOM	18703	C5*	C	A	897	160.857	79.916	-44.088	1.00	56.27	A16S
ATOM	18704	C4*	C	A	897	161.994	80.897	-44.239	1.00	56.27	A16S

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ATOM	18705	O4*	C	A	897	162.495	81.311	-42.943	1.00	56.27	A16S
ATOM	18706	C1*	C	A	897	163.843	81.720	-43.077	1.00	56.27	A16S
ATOM	18707	N1	C	A	897	164.695	80.932	-42.179	1.00	44.58	A16S
ATOM	18708	C6	C	A	897	164.372	79.653	-41.820	1.00	44.58	A16S
ATOM	18709	C2	C	A	897	165.890	81.508	-41.741	1.00	44.58	A16S
ATOM	18710	O2	C	A	897	166.113	82.709	-42.011	1.00	44.58	A16S
ATOM	18711	N3	C	A	897	166.766	80.756	-41.037	1.00	44.58	A16S
ATOM	18712	C4	C	A	897	166.474	79.487	-40.757	1.00	44.58	A16S
ATOM	18713	N4	C	A	897	167.400	78.760	-40.146	1.00	44.58	A16S
ATOM	18714	C5	C	A	897	165.225	78.902	-41.115	1.00	44.58	A16S
ATOM	18715	C2*	C	A	897	164.270	81.461	-44.519	1.00	56.27	A16S
ATOM	18716	O2*	C	A	897	164.213	82.668	-45.250	1.00	56.27	A16S
ATOM	18717	C3*	C	A	897	163.238	80.433	-44.963	1.00	56.27	A16S
ATOM	18718	O3*	C	A	897	163.081	80.434	-46.363	1.00	56.27	A16S
ATOM	18719	P	G	A	898	163.935	79.398	-47.244	1.00	56.54	A16S
ATOM	18720	O1P	G	A	898	163.554	79.673	-48.660	1.00	45.95	A16S
ATOM	18721	O2P	G	A	898	163.795	78.020	-46.684	1.00	45.95	A16S
ATOM	18722	O5*	G	A	898	165.444	79.865	-47.036	1.00	56.54	A16S
ATOM	18723	C5*	G	A	898	165.940	81.019	-47.726	1.00	56.54	A16S
ATOM	18724	C4*	G	A	898	167.424	81.140	-47.539	1.00	56.54	A16S
ATOM	18725	O4*	G	A	898	167.708	81.440	-46.151	1.00	56.54	A16S
ATOM	18726	C1*	G	A	898	168.965	80.900	-45.797	1.00	56.54	A16S
ATOM	18727	N9	G	A	898	168.770	79.938	-44.727	1.00	45.95	A16S
ATOM	18728	C4	G	A	898	169.733	79.466	-43.865	1.00	45.95	A16S
ATOM	18729	N3	G	A	898	171.002	79.914	-43.764	1.00	45.95	A16S
ATOM	18730	C2	G	A	898	171.709	79.195	-42.901	1.00	45.95	A16S
ATOM	18731	N2	G	A	898	172.982	79.506	-42.648	1.00	45.95	A16S
ATOM	18732	N1	G	A	898	171.218	78.121	-42.217	1.00	45.95	A16S
ATOM	18733	C6	G	A	898	169.917	77.646	-42.310	1.00	45.95	A16S
ATOM	18734	O6	G	A	898	169.580	76.649	-41.669	1.00	45.95	A16S
ATOM	18735	C5	G	A	898	169.140	78.421	-43.199	1.00	45.95	A16S
ATOM	18736	N7	G	A	898	167.805	78.306	-43.554	1.00	45.95	A16S
ATOM	18737	C8	G	A	898	167.626	79.242	-44.446	1.00	45.95	A16S
ATOM	18738	C2*	G	A	898	169.513	80.164	-47.024	1.00	56.54	A16S
ATOM	18739	O2*	G	A	898	170.441	80.980	-47.711	1.00	56.54	A16S
ATOM	18740	C3*	G	A	898	168.242	79.894	-47.820	1.00	56.54	A16S
ATOM	18741	O3*	G	A	898	168.488	79.692	-49.212	1.00	56.54	A16S
ATOM	18742	P	C	A	899	168.465	78.193	-49.812	1.00	43.23	A16S
ATOM	18743	O1P	C	A	899	167.243	77.524	-49.276	1.00	50.59	A16S
ATOM	18744	O2P	C	A	899	168.694	78.247	-51.288	1.00	50.59	A16S
ATOM	18745	O5*	C	A	899	169.721	77.478	-49.137	1.00	43.23	A16S
ATOM	18746	C5*	C	A	899	170.014	76.091	-49.377	1.00	43.23	A16S
ATOM	18747	C4*	C	A	899	171.505	75.886	-49.413	1.00	43.23	A16S
ATOM	18748	O4*	C	A	899	172.038	76.617	-50.538	1.00	43.23	A16S
ATOM	18749	C1*	C	A	899	173.282	77.192	-50.189	1.00	43.23	A16S
ATOM	18750	N1	C	A	899	173.226	78.641	-50.446	1.00	50.59	A16S
ATOM	18751	C6	C	A	899	172.034	79.301	-50.530	1.00	50.59	A16S
ATOM	18752	C2	C	A	899	174.419	79.332	-50.603	1.00	50.59	A16S
ATOM	18753	O2	C	A	899	175.489	78.711	-50.507	1.00	50.59	A16S
ATOM	18754	N3	C	A	899	174.388	80.661	-50.847	1.00	50.59	A16S
ATOM	18755	C4	C	A	899	173.223	81.296	-50.923	1.00	50.59	A16S
ATOM	18756	N4	C	A	899	173.246	82.606	-51.151	1.00	50.59	A16S
ATOM	18757	C5	C	A	899	171.987	80.616	-50.763	1.00	50.59	A16S
ATOM	18758	C2*	C	A	899	173.606	76.809	-48.741	1.00	43.23	A16S
ATOM	18759	O2*	C	A	899	174.509	75.722	-48.699	1.00	43.23	A16S
ATOM	18760	C3*	C	A	899	172.238	76.431	-48.199	1.00	43.23	A16S
ATOM	18761	O3*	C	A	899	172.368	75.417	-47.221	1.00	43.23	A16S
ATOM	18762	P	A	A	900	172.390	75.815	-45.668	1.00	46.38	A16S
ATOM	18763	O1P	A	A	900	172.496	74.541	-44.901	1.00	34.34	A16S
ATOM	18764	O2P	A	A	900	171.229	76.727	-45.414	1.00	34.34	A16S
ATOM	18765	O5*	A	A	900	173.748	76.643	-45.493	1.00	46.38	A16S
ATOM	18766	C5*	A	A	900	175.027	75.972	-45.502	1.00	46.38	A16S
ATOM	18767	C4*	A	A	900	176.154	76.974	-45.574	1.00	46.38	A16S
ATOM	18768	O4*	A	A	900	176.007	77.774	-46.776	1.00	46.38	A16S
ATOM	18769	C1*	A	A	900	176.377	79.113	-46.510	1.00	46.38	A16S
ATOM	18770	N9	A	A	900	175.234	79.982	-46.824	1.00	34.34	A16S
ATOM	18771	C4	A	A	900	175.282	81.301	-47.232	1.00	34.34	A16S
ATOM	18772	N3	A	A	900	176.370	82.071	-47.380	1.00	34.34	A16S
ATOM	18773	C2	A	A	900	176.031	83.275	-47.843	1.00	34.34	A16S
ATOM	18774	N1	A	A	900	174.823	83.757	-48.159	1.00	34.34	A16S
ATOM	18775	C6	A	A	900	173.752	82.956	-48.000	1.00	34.34	A16S
ATOM	18776	N6	A	A	900	172.553	83.425	-48.334	1.00	34.34	A16S
ATOM	18777	C5	A	A	900	173.970	81.664	-47.501	1.00	34.34	A16S
ATOM	18778	N7	A	A	900	173.102	80.616	-47.225	1.00	34.34	A16S
ATOM	18779	C8	A	A	900	173.894	79.646	-46.818	1.00	34.34	A16S
ATOM	18780	C2*	A	A	900	176.878	79.178	-45.065	1.00	46.38	A16S
ATOM	18781	O2*	A	A	900	178.283	79.049	-45.092	1.00	46.38	A16S

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ATOM	18782	C3*	A	A	900	176.199	77.968	-44.431	1.00	46.38	A16S
ATOM	18783	O3*	A	A	900	176.951	77.433	-43.341	1.00	46.38	A16S
ATOM	18784	P	A	A	901	176.636	77.914	-41.833	1.00	51.65	A16S
ATOM	18785	O1P	A	A	901	177.473	77.146	-40.893	1.00	37.33	A16S
ATOM	18786	O2P	A	A	901	175.164	77.934	-41.644	1.00	37.33	A16S
ATOM	18787	O5*	A	A	901	177.179	79.405	-41.769	1.00	51.65	A16S
ATOM	18788	C5*	A	A	901	178.573	79.671	-41.942	1.00	51.65	A16S
ATOM	18789	C4*	A	A	901	178.791	81.124	-42.272	1.00	51.65	A16S
ATOM	18790	O4*	A	A	901	178.176	81.438	-43.547	1.00	51.65	A16S
ATOM	18791	C1*	A	A	901	177.643	82.752	-43.510	1.00	51.65	A16S
ATOM	18792	N9	A	A	901	176.200	82.675	-43.747	1.00	37.33	A16S
ATOM	18793	C4	A	A	901	175.446	83.642	-44.348	1.00	37.33	A16S
ATOM	18794	N3	A	A	901	175.881	84.808	-44.848	1.00	37.33	A16S
ATOM	18795	C2	A	A	901	174.859	85.505	-45.346	1.00	37.33	A16S
ATOM	18796	N1	A	A	901	173.557	85.185	-45.388	1.00	37.33	A16S
ATOM	18797	C6	A	A	901	173.168	84.003	-44.871	1.00	37.33	A16S
ATOM	18798	N6	A	A	901	171.878	83.688	-44.904	1.00	37.33	A16S
ATOM	18799	C5	A	A	901	174.146	83.178	-44.325	1.00	37.33	A16S
ATOM	18800	N7	A	A	901	174.079	81.932	-43.734	1.00	37.33	A16S
ATOM	18801	C8	A	A	901	175.321	81.674	-43.412	1.00	37.33	A16S
ATOM	18802	C2*	A	A	901	177.980	83.348	-42.140	1.00	51.65	A16S
ATOM	18803	O2*	A	A	901	179.183	84.085	-42.213	1.00	51.65	A16S
ATOM	18804	C3*	A	A	901	178.164	82.098	-41.297	1.00	51.65	A16S
ATOM	18805	O3*	A	A	901	179.022	82.335	-40.206	1.00	51.65	A16S
ATOM	18806	P	G	A	902	178.470	82.136	-38.716	1.00	48.50	A16S
ATOM	18807	O1P	G	A	902	179.319	83.016	-37.878	1.00	36.62	A16S
ATOM	18808	O2P	G	A	902	178.388	80.670	-38.407	1.00	36.62	A16S
ATOM	18809	O5*	G	A	902	176.990	82.728	-38.769	1.00	48.50	A16S
ATOM	18810	C5*	G	A	902	176.722	84.091	-38.403	1.00	48.50	A16S
ATOM	18811	C4*	G	A	902	175.687	84.699	-39.325	1.00	48.50	A16S
ATOM	18812	O4*	G	A	902	175.360	83.761	-40.379	1.00	48.50	A16S
ATOM	18813	C1*	G	A	902	173.985	83.853	-40.695	1.00	48.50	A16S
ATOM	18814	N9	G	A	902	173.356	82.604	-40.296	1.00	36.62	A16S
ATOM	18815	C4	G	A	902	172.061	82.244	-40.530	1.00	36.62	A16S
ATOM	18816	N3	G	A	902	171.149	82.977	-41.196	1.00	36.62	A16S
ATOM	18817	C2	G	A	902	169.974	82.382	-41.230	1.00	36.62	A16S
ATOM	18818	N2	G	A	902	168.950	82.990	-41.842	1.00	36.62	A16S
ATOM	18819	N1	G	A	902	169.720	81.156	-40.663	1.00	36.62	A16S
ATOM	18820	C6	G	A	902	170.658	80.384	-39.978	1.00	36.62	A16S
ATOM	18821	O6	G	A	902	170.341	79.284	-39.505	1.00	36.62	A16S
ATOM	18822	C5	G	A	902	171.908	81.015	-39.929	1.00	36.62	A16S
ATOM	18823	N7	G	A	902	173.092	80.602	-39.347	1.00	36.62	A16S
ATOM	18824	C8	G	A	902	173.924	81.573	-39.593	1.00	36.62	A16S
ATOM	18825	C2*	G	A	902	173.407	85.013	-39.893	1.00	48.50	A16S
ATOM	18826	O2*	G	A	902	173.465	86.180	-40.687	1.00	48.50	A16S
ATOM	18827	C3*	G	A	902	174.346	85.047	-38.694	1.00	48.50	A16S
ATOM	18828	O3*	G	A	902	174.359	86.310	-38.029	1.00	48.50	A16S
ATOM	18829	P	G	A	903	173.347	86.569	-36.802	1.00	39.50	A16S
ATOM	18830	O1P	G	A	903	173.798	87.803	-36.054	1.00	36.57	A16S
ATOM	18831	O2P	G	A	903	173.196	85.276	-36.067	1.00	36.57	A16S
ATOM	18832	O5*	G	A	903	171.965	86.882	-37.530	1.00	39.50	A16S
ATOM	18833	C5*	G	A	903	171.904	87.898	-38.533	1.00	39.50	A16S
ATOM	18834	C4*	G	A	903	170.556	87.900	-39.207	1.00	39.50	A16S
ATOM	18835	O4*	G	A	903	170.330	86.639	-39.882	1.00	39.50	A16S
ATOM	18836	C1*	G	A	903	168.954	86.314	-39.832	1.00	39.50	A16S
ATOM	18837	N9	G	A	903	168.835	85.053	-39.114	1.00	36.57	A16S
ATOM	18838	C4	G	A	903	167.701	84.306	-38.943	1.00	36.57	A16S
ATOM	18839	N3	G	A	903	166.464	84.639	-39.354	1.00	36.57	A16S
ATOM	18840	C2	G	A	903	165.577	83.691	-39.065	1.00	36.57	A16S
ATOM	18841	N2	G	A	903	164.280	83.860	-39.386	1.00	36.57	A16S
ATOM	18842	N1	G	A	903	165.894	82.514	-38.437	1.00	36.57	A16S
ATOM	18843	C6	G	A	903	167.163	82.163	-38.001	1.00	36.57	A16S
ATOM	18844	O6	G	A	903	167.343	81.088	-37.436	1.00	36.57	A16S
ATOM	18845	C5	G	A	903	168.110	83.162	-38.290	1.00	36.57	A16S
ATOM	18846	N7	G	A	903	169.468	83.210	-38.016	1.00	36.57	A16S
ATOM	18847	C8	G	A	903	169.854	84.355	-38.510	1.00	36.57	A16S
ATOM	18848	C2*	G	A	903	168.235	87.478	-39.156	1.00	39.50	A16S
ATOM	18849	O2*	G	A	903	167.856	88.425	-40.135	1.00	39.50	A16S
ATOM	18850	C3*	G	A	903	169.349	88.059	-38.306	1.00	39.50	A16S
ATOM	18851	O3*	G	A	903	169.105	89.415	-38.009	1.00	39.50	A16S
ATOM	18852	P	C	A	904	168.515	89.805	-36.569	1.00	45.53	A16S
ATOM	18853	O1P	C	A	904	168.450	91.307	-36.578	1.00	25.51	A16S
ATOM	18854	O2P	C	A	904	169.302	89.098	-35.522	1.00	25.51	A16S
ATOM	18855	O5*	C	A	904	167.030	89.214	-36.567	1.00	45.53	A16S
ATOM	18856	C5*	C	A	904	165.996	89.859	-37.334	1.00	45.53	A16S
ATOM	18857	C4*	C	A	904	164.689	89.122	-37.203	1.00	45.53	A16S
ATOM	18858	O4*	C	A	904	164.814	87.787	-37.747	1.00	45.53	A16S

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ATOM	18859	C1*	C	A	904	164.015	86.891	-37.001	1.00	45.53	A16S
ATOM	18860	N1	C	A	904	164.899	85.885	-36.383	1.00	25.51	A16S
ATOM	18861	C6	C	A	904	166.222	86.154	-36.170	1.00	25.51	A16S
ATOM	18862	C2	C	A	904	164.362	84.638	-36.005	1.00	25.51	A16S
ATOM	18863	O2	C	A	904	163.158	84.423	-36.176	1.00	25.51	A16S
ATOM	18864	N3	C	A	904	165.167	83.712	-35.456	1.00	25.51	A16S
ATOM	18865	C4	C	A	904	166.453	83.984	-35.263	1.00	25.51	A16S
ATOM	18866	N4	C	A	904	167.209	83.036	-34.734	1.00	25.51	A16S
ATOM	18867	C5	C	A	904	167.024	85.243	-35.612	1.00	25.51	A16S
ATOM	18868	C2*	C	A	904	163.270	87.713	-35.951	1.00	45.53	A16S
ATOM	18869	O2*	C	A	904	162.007	88.073	-36.467	1.00	45.53	A16S
ATOM	18870	C3*	C	A	904	164.188	88.912	-35.794	1.00	45.53	A16S
ATOM	18871	O3*	C	A	904	163.493	90.048	-35.325	1.00	45.53	A16S
ATOM	18872	P	U	A	905	163.671	90.498	-33.790	1.00	42.32	A16S
ATOM	18873	O1P	U	A	905	163.027	91.842	-33.655	1.00	40.96	A16S
ATOM	18874	O2P	U	A	905	165.109	90.336	-33.420	1.00	40.96	A16S
ATOM	18875	O5*	U	A	905	162.842	89.401	-32.973	1.00	42.32	A16S
ATOM	18876	C5*	U	A	905	161.460	89.177	-33.264	1.00	42.32	A16S
ATOM	18877	C4*	U	A	905	161.028	87.822	-32.780	1.00	42.32	A16S
ATOM	18878	O4*	U	A	905	161.775	86.788	-33.463	1.00	42.32	A16S
ATOM	18879	C1*	U	A	905	161.851	85.638	-32.634	1.00	42.32	A16S
ATOM	18880	N1	U	A	905	163.255	85.234	-32.462	1.00	40.96	A16S
ATOM	18881	C6	U	A	905	164.283	86.145	-32.487	1.00	40.96	A16S
ATOM	18882	C2	U	A	905	163.508	83.886	-32.260	1.00	40.96	A16S
ATOM	18883	O2	U	A	905	162.628	83.045	-32.225	1.00	40.96	A16S
ATOM	18884	N3	U	A	905	164.828	83.558	-32.090	1.00	40.96	A16S
ATOM	18885	C4	U	A	905	165.901	84.420	-32.088	1.00	40.96	A16S
ATOM	18886	O4	U	A	905	167.022	83.986	-31.823	1.00	40.96	A16S
ATOM	18887	C5	U	A	905	165.563	85.793	-32.311	1.00	40.96	A16S
ATOM	18888	C2*	U	A	905	161.186	85.986	-31.306	1.00	42.32	A16S
ATOM	18889	O2*	U	A	905	159.852	85.510	-31.336	1.00	42.32	A16S
ATOM	18890	C3*	U	A	905	161.252	87.504	-31.318	1.00	42.32	A16S
ATOM	18891	O3*	U	A	905	160.251	88.057	-30.496	1.00	42.32	A16S
ATOM	18892	P	G	A	906	160.681	88.980	-29.257	1.00	42.00	A16S
ATOM	18893	O1P	G	A	906	159.441	89.368	-28.516	1.00	45.58	A16S
ATOM	18894	O2P	G	A	906	161.567	90.053	-29.824	1.00	45.58	A16S
ATOM	18895	O5*	G	A	906	161.556	88.002	-28.342	1.00	42.00	A16S
ATOM	18896	C5*	G	A	906	160.952	86.852	-27.730	1.00	42.00	A16S
ATOM	18897	C4*	G	A	906	161.988	85.987	-27.047	1.00	42.00	A16S
ATOM	18898	O4*	G	A	906	162.821	85.328	-28.035	1.00	42.00	A16S
ATOM	18899	C1*	G	A	906	164.130	85.165	-27.520	1.00	42.00	A16S
ATOM	18900	N9	G	A	906	165.026	85.990	-28.318	1.00	45.58	A16S
ATOM	18901	C4	G	A	906	166.340	85.738	-28.637	1.00	45.58	A16S
ATOM	18902	N3	G	A	906	167.047	84.632	-28.318	1.00	45.58	A16S
ATOM	18903	C2	G	A	906	168.299	84.707	-28.749	1.00	45.58	A16S
ATOM	18904	N2	G	A	906	169.155	83.699	-28.536	1.00	45.58	A16S
ATOM	18905	N1	G	A	906	168.807	85.777	-29.424	1.00	45.58	A16S
ATOM	18906	C6	G	A	906	168.094	86.920	-29.757	1.00	45.58	A16S
ATOM	18907	O6	G	A	906	168.647	87.839	-30.364	1.00	45.58	A16S
ATOM	18908	C5	G	A	906	166.763	86.852	-29.317	1.00	45.58	A16S
ATOM	18909	N7	G	A	906	165.735	87.767	-29.457	1.00	45.58	A16S
ATOM	18910	C8	G	A	906	164.724	87.209	-28.860	1.00	45.58	A16S
ATOM	18911	C2*	G	A	906	164.115	85.673	-26.077	1.00	42.00	A16S
ATOM	18912	O2*	G	A	906	163.843	84.608	-25.190	1.00	42.00	A16S
ATOM	18913	C3*	G	A	906	162.974	86.674	-26.122	1.00	42.00	A16S
ATOM	18914	O3*	G	A	906	162.462	86.908	-24.827	1.00	42.00	A16S
ATOM	18915	P	A	A	907	163.185	87.996	-23.885	1.00	44.86	A16S
ATOM	18916	O1P	A	A	907	162.236	88.359	-22.790	1.00	36.33	A16S
ATOM	18917	O2P	A	A	907	163.762	89.068	-24.757	1.00	36.33	A16S
ATOM	18918	O5*	A	A	907	164.410	87.198	-23.256	1.00	44.86	A16S
ATOM	18919	C5*	A	A	907	164.488	86.917	-21.850	1.00	44.86	A16S
ATOM	18920	C4*	A	A	907	163.922	85.552	-21.571	1.00	44.86	A16S
ATOM	18921	O4*	A	A	907	164.334	84.621	-22.599	1.00	44.86	A16S
ATOM	18922	C1*	A	A	907	164.597	83.356	-22.020	1.00	44.86	A16S
ATOM	18923	N9	A	A	907	166.027	83.090	-22.138	1.00	36.33	A16S
ATOM	18924	C4	A	A	907	166.658	81.989	-21.616	1.00	36.33	A16S
ATOM	18925	N3	A	A	907	166.094	80.992	-20.915	1.00	36.33	A16S
ATOM	18926	C2	A	A	907	167.008	80.108	-20.563	1.00	36.33	A16S
ATOM	18927	N1	A	A	907	168.324	80.099	-20.819	1.00	36.33	A16S
ATOM	18928	C6	A	A	907	168.854	81.113	-21.529	1.00	36.33	A16S
ATOM	18929	N6	A	A	907	170.156	81.095	-21.788	1.00	36.33	A16S
ATOM	18930	C5	A	A	907	167.994	82.124	-21.953	1.00	36.33	A16S
ATOM	18931	N7	A	A	907	168.209	83.297	-22.666	1.00	36.33	A16S
ATOM	18932	C8	A	A	907	167.013	83.835	-22.751	1.00	36.33	A16S
ATOM	18933	C2*	A	A	907	164.215	83.438	-20.549	1.00	44.86	A16S
ATOM	18934	O2*	A	A	907	162.894	82.951	-20.403	1.00	44.86	A16S
ATOM	18935	C3*	A	A	907	164.401	84.924	-20.285	1.00	44.86	A16S

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ATOM	18936	O3*	A	A	907	163.673	85.402	-19.190	1.00	44.86	A16S
ATOM	18937	P	A	A	908	164.453	85.785	-17.855	1.00	59.91	A16S
ATOM	18938	O1P	A	A	908	163.465	86.408	-16.940	1.00	50.02	A16S
ATOM	18939	O2P	A	A	908	165.685	86.526	-18.226	1.00	50.02	A16S
ATOM	18940	O5*	A	A	908	164.879	84.373	-17.269	1.00	59.91	A16S
ATOM	18941	C5*	A	A	908	163.890	83.388	-16.940	1.00	59.91	A16S
ATOM	18942	C4*	A	A	908	164.567	82.127	-16.480	1.00	59.91	A16S
ATOM	18943	O4*	A	A	908	165.284	81.541	-17.597	1.00	59.91	A16S
ATOM	18944	C1*	A	A	908	166.514	81.007	-17.148	1.00	59.91	A16S
ATOM	18945	N9	A	A	908	167.597	81.745	-17.802	1.00	50.02	A16S
ATOM	18946	C4	A	A	908	168.911	81.351	-17.906	1.00	50.02	A16S
ATOM	18947	N3	A	A	908	169.464	80.218	-17.441	1.00	50.02	A16S
ATOM	18948	C2	A	A	908	170.768	80.185	-17.720	1.00	50.02	A16S
ATOM	18949	N1	A	A	908	171.521	81.084	-18.360	1.00	50.02	A16S
ATOM	18950	C6	A	A	908	170.934	82.209	-18.811	1.00	50.02	A16S
ATOM	18951	N6	A	A	908	171.683	83.105	-19.447	1.00	50.02	A16S
ATOM	18952	C5	A	A	908	169.559	82.368	-18.581	1.00	50.02	A16S
ATOM	18953	N7	A	A	908	168.674	83.385	-18.900	1.00	50.02	A16S
ATOM	18954	C8	A	A	908	167.527	82.968	-18.421	1.00	50.02	A16S
ATOM	18955	C2*	A	A	908	166.549	81.152	-15.625	1.00	59.91	A16S
ATOM	18956	O2*	A	A	908	166.032	79.978	-15.038	1.00	59.91	A16S
ATOM	18957	C3*	A	A	908	165.626	82.341	-15.412	1.00	59.91	A16S
ATOM	18958	O3*	A	A	908	165.064	82.388	-14.109	1.00	59.91	A16S
ATOM	18959	P	A	A	909	165.840	83.173	-12.936	1.00	48.21	A16S
ATOM	18960	O1P	A	A	909	164.880	83.323	-11.802	1.00	54.63	A16S
ATOM	18961	O2P	A	A	909	166.512	84.393	-13.508	1.00	54.63	A16S
ATOM	18962	O5*	A	A	909	166.931	82.120	-12.461	1.00	48.21	A16S
ATOM	18963	C5*	A	A	909	166.530	80.805	-12.041	1.00	48.21	A16S
ATOM	18964	C4*	A	A	909	167.730	79.905	-11.943	1.00	48.21	A16S
ATOM	18965	O4*	A	A	909	168.317	79.737	-13.259	1.00	48.21	A16S
ATOM	18966	C1*	A	A	909	169.724	79.726	-13.151	1.00	48.21	A16S
ATOM	18967	N9	A	A	909	170.224	80.852	-13.930	1.00	54.63	A16S
ATOM	18968	C4	A	A	909	171.502	81.032	-14.393	1.00	54.63	A16S
ATOM	18969	N3	A	A	909	172.553	80.215	-14.223	1.00	54.63	A16S
ATOM	18970	C2	A	A	909	173.632	80.705	-14.832	1.00	54.63	A16S
ATOM	18971	N1	A	A	909	173.768	81.833	-15.540	1.00	54.63	A16S
ATOM	18972	C6	A	A	909	172.694	82.633	-15.691	1.00	54.63	A16S
ATOM	18973	N6	A	A	909	172.832	83.757	-16.399	1.00	54.63	A16S
ATOM	18974	C5	A	A	909	171.487	82.228	-15.090	1.00	54.63	A16S
ATOM	18975	N7	A	A	909	170.221	82.796	-15.060	1.00	54.63	A16S
ATOM	18976	C8	A	A	909	169.513	81.944	-14.359	1.00	54.63	A16S
ATOM	18977	C2*	A	A	909	170.087	79.810	-11.663	1.00	48.21	A16S
ATOM	18978	O2*	A	A	909	170.266	78.524	-11.104	1.00	48.21	A16S
ATOM	18979	C3*	A	A	909	168.846	80.460	-11.079	1.00	48.21	A16S
ATOM	18980	O3*	A	A	909	168.668	80.080	-9.725	1.00	48.21	A16S
ATOM	18981	P	C	A	910	168.991	81.133	-8.562	1.00	51.62	A16S
ATOM	18982	O1P	C	A	910	168.988	80.358	-7.289	1.00	60.25	A16S
ATOM	18983	O2P	C	A	910	168.083	82.296	-8.730	1.00	60.25	A16S
ATOM	18984	O5*	C	A	910	170.471	81.620	-8.864	1.00	51.62	A16S
ATOM	18985	C5*	C	A	910	171.565	80.717	-8.723	1.00	51.62	A16S
ATOM	18986	C4*	C	A	910	172.822	81.342	-9.259	1.00	51.62	A16S
ATOM	18987	O4*	C	A	910	172.687	81.549	-10.690	1.00	51.62	A16S
ATOM	18988	C1*	C	A	910	173.345	82.744	-11.061	1.00	51.62	A16S
ATOM	18989	N1	C	A	910	172.353	83.642	-11.663	1.00	60.25	A16S
ATOM	18990	C6	C	A	910	171.015	83.452	-11.467	1.00	60.25	A16S
ATOM	18991	C2	C	A	910	172.607	84.720	-12.416	1.00	60.25	A16S
ATOM	18992	O2	C	A	910	174.019	84.829	-12.621	1.00	60.25	A16S
ATOM	18993	N3	C	A	910	171.919	85.615	-12.906	1.00	60.25	A16S
ATOM	18994	C4	C	A	910	170.618	85.447	-12.681	1.00	60.25	A16S
ATOM	18995	N4	C	A	910	169.776	86.371	-13.157	1.00	60.25	A16S
ATOM	18996	C5	C	A	910	170.119	84.323	-11.950	1.00	60.25	A16S
ATOM	18997	C2*	C	A	910	173.978	83.349	-9.800	1.00	51.62	A16S
ATOM	18998	O2*	C	A	910	175.348	83.008	-9.740	1.00	51.62	A16S
ATOM	18999	C3*	C	A	910	173.142	82.713	-8.693	1.00	51.62	A16S
ATOM	19000	O3*	C	A	910	173.823	82.603	-7.450	1.00	51.62	A16S
ATOM	19001	P	U	A	911	173.564	83.707	-6.309	1.00	54.58	A16S
ATOM	19002	O1P	U	A	911	174.287	83.258	-5.072	1.00	56.37	A16S
ATOM	19003	O2P	U	A	911	172.098	83.977	-6.245	1.00	56.37	A16S
ATOM	19004	O5*	U	A	911	174.247	85.024	-6.909	1.00	54.58	A16S
ATOM	19005	C5*	U	A	911	175.644	85.032	-7.252	1.00	54.58	A16S
ATOM	19006	C4*	U	A	911	176.003	86.268	-8.047	1.00	54.58	A16S
ATOM	19007	O4*	U	A	911	175.314	86.261	-9.318	1.00	54.58	A16S
ATOM	19008	C1*	U	A	911	175.052	87.592	-9.723	1.00	54.58	A16S
ATOM	19009	N1	U	A	911	173.610	87.729	-9.937	1.00	56.37	A16S
ATOM	19010	C6	U	A	911	172.709	86.993	-9.204	1.00	56.37	A16S
ATOM	19011	C2	U	A	911	173.190	88.615	-10.901	1.00	56.37	A16S
ATOM	19012	O2	U	A	911	173.957	89.299	-11.551	1.00	56.37	A16S

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ATOM	19013	N3	U	A	911	171.834	88.676	-11.072	1.00	56.37	A16S
ATOM	19014	C4	U	A	911	170.877	87.961	-10.378	1.00	56.37	A16S
ATOM	19015	O4	U	A	911	169.691	88.110	-10.659	1.00	56.37	A16S
ATOM	19016	C5	U	A	911	171.394	87.079	-9.384	1.00	56.37	A16S
ATOM	19017	C2*	U	A	911	175.574	88.535	-8.641	1.00	54.58	A16S
ATOM	19018	O2*	U	A	911	176.819	89.058	-9.044	1.00	54.58	A16S
ATOM	19019	C3*	U	A	911	175.660	87.610	-7.431	1.00	54.58	A16S
ATOM	19020	O3*	U	A	911	176.664	88.023	-6.529	1.00	54.58	A16S
ATOM	19021	P	C	A	912	176.299	89.077	-5.375	1.00	49.76	A16S
ATOM	19022	O1P	C	A	912	177.435	89.055	-4.414	1.00	49.65	A16S
ATOM	19023	O2P	C	A	912	174.919	88.790	-4.898	1.00	49.65	A16S
ATOM	19024	O5*	C	A	912	176.316	90.488	-6.119	1.00	49.76	A16S
ATOM	19025	C5*	C	A	912	177.522	90.951	-6.759	1.00	49.76	A16S
ATOM	19026	C4*	C	A	912	177.260	92.213	-7.545	1.00	49.76	A16S
ATOM	19027	O4*	C	A	912	176.410	91.936	-8.678	1.00	49.76	A16S
ATOM	19028	C1*	C	A	912	175.561	93.041	-8.909	1.00	49.76	A16S
ATOM	19029	N1	C	A	912	174.170	92.576	-8.860	1.00	49.65	A16S
ATOM	19030	C6	C	A	912	173.819	91.465	-8.145	1.00	49.65	A16S
ATOM	19031	C2	C	A	912	173.208	93.277	-9.587	1.00	49.65	A16S
ATOM	19032	O2	C	A	912	173.550	94.301	-10.195	1.00	49.65	A16S
ATOM	19033	N3	C	A	912	171.934	92.827	-9.613	1.00	49.65	A16S
ATOM	19034	C4	C	A	912	171.607	91.721	-8.942	1.00	49.65	A16S
ATOM	19035	N4	C	A	912	170.341	91.286	-9.026	1.00	49.65	A16S
ATOM	19036	C5	C	A	912	172.563	91.003	-8.161	1.00	49.65	A16S
ATOM	19037	C2*	C	A	912	175.897	94.130	-7.894	1.00	49.76	A16S
ATOM	19038	O2*	C	A	912	176.784	95.049	-8.499	1.00	49.76	A16S
ATOM	19039	C3*	C	A	912	176.559	93.323	-6.786	1.00	49.76	A16S
ATOM	19040	O3*	C	A	912	177.520	94.095	-6.091	1.00	49.76	A16S
ATOM	19041	P	A	A	913	177.229	94.565	-4.585	1.00	74.94	A16S
ATOM	19042	O1P	A	A	913	178.313	93.977	-3.770	1.00	40.74	A16S
ATOM	19043	O2P	A	A	913	175.823	94.290	-4.205	1.00	40.74	A16S
ATOM	19044	O5*	A	A	913	177.432	96.142	-4.689	1.00	74.94	A16S
ATOM	19045	C5*	A	A	913	176.595	97.054	-3.948	1.00	74.94	A16S
ATOM	19046	C4*	A	A	913	175.973	98.084	-4.872	1.00	74.94	A16S
ATOM	19047	O4*	A	A	913	175.261	97.403	-5.927	1.00	74.94	A16S
ATOM	19048	C1*	A	A	913	174.042	98.057	-6.177	1.00	74.94	A16S
ATOM	19049	N9	A	A	913	172.978	97.055	-6.225	1.00	40.74	A16S
ATOM	19050	C4	A	A	913	171.857	97.104	-7.023	1.00	40.74	A16S
ATOM	19051	N3	A	A	913	171.491	98.094	-7.849	1.00	40.74	A16S
ATOM	19052	C2	A	A	913	170.361	97.784	-8.469	1.00	40.74	A16S
ATOM	19053	N1	A	A	913	169.613	96.679	-8.368	1.00	40.74	A16S
ATOM	19054	C6	A	A	913	170.006	95.710	-7.524	1.00	40.74	A16S
ATOM	19055	N6	A	A	913	169.251	94.619	-7.413	1.00	40.74	A16S
ATOM	19056	C5	A	A	913	171.186	95.913	-6.807	1.00	40.74	A16S
ATOM	19057	N7	A	A	913	171.850	95.136	-5.873	1.00	40.74	A16S
ATOM	19058	C8	A	A	913	172.898	95.862	-5.547	1.00	40.74	A16S
ATOM	19059	C2*	A	A	913	173.878	99.235	-5.212	1.00	74.94	A16S
ATOM	19060	O2*	A	A	913	174.033	100.449	-5.900	1.00	74.94	A16S
ATOM	19061	C3*	A	A	913	174.948	98.959	-4.165	1.00	74.94	A16S
ATOM	19062	O3*	A	A	913	175.582	100.095	-3.507	1.00	74.94	A16S
ATOM	19063	P	A	A	914	176.119	101.393	-4.346	1.00	52.07	A16S
ATOM	19064	O1P	A	A	914	177.386	101.792	-3.662	1.00	72.97	A16S
ATOM	19065	O2P	A	A	914	175.047	102.410	-4.533	1.00	72.97	A16S
ATOM	19066	O5*	A	A	914	176.494	100.851	-5.795	1.00	38.59	A16S
ATOM	19067	C5*	A	A	914	176.288	101.653	-6.984	1.00	38.59	A16S
ATOM	19068	C4*	A	A	914	176.156	100.732	-8.172	1.00	38.59	A16S
ATOM	19069	O4*	A	A	914	174.883	100.039	-8.130	1.00	38.59	A16S
ATOM	19070	C1*	A	A	914	174.438	99.770	-9.445	1.00	38.59	A16S
ATOM	19071	N9	A	A	914	173.146	100.430	-9.651	1.00	33.63	A16S
ATOM	19072	C4	A	A	914	172.278	100.174	-10.678	1.00	33.63	A16S
ATOM	19073	N3	A	A	914	172.421	99.265	-11.648	1.00	33.63	A16S
ATOM	19074	C2	A	A	914	171.393	99.308	-12.484	1.00	33.63	A16S
ATOM	19075	N1	A	A	914	170.321	100.099	-12.466	1.00	33.63	A16S
ATOM	19076	C6	A	A	914	170.205	101.002	-11.473	1.00	33.63	A16S
ATOM	19077	N6	A	A	914	169.128	101.792	-11.453	1.00	33.63	A16S
ATOM	19078	C5	A	A	914	171.230	101.054	-10.516	1.00	33.63	A16S
ATOM	19079	N7	A	A	914	171.414	101.837	-9.387	1.00	33.63	A16S
ATOM	19080	C8	A	A	914	172.558	101.424	-8.907	1.00	33.63	A16S
ATOM	19081	C2*	A	A	914	175.529	100.255	-10.401	1.00	38.59	A16S
ATOM	19082	O2*	A	A	914	176.357	99.136	-10.655	1.00	38.59	A16S
ATOM	19083	C3*	A	A	914	176.242	101.320	-9.565	1.00	38.59	A16S
ATOM	19084	O3*	A	A	914	177.620	101.383	-9.891	1.00	38.59	A16S
ATOM	19085	P	A	A	915	178.103	102.128	-11.224	1.00	45.74	A16S
ATOM	19086	O1P	A	A	915	179.487	101.609	-11.448	1.00	45.80	A16S
ATOM	19087	O2P	A	A	915	177.882	103.612	-11.080	1.00	45.80	A16S
ATOM	19088	O5*	A	A	915	177.149	101.562	-12.378	1.00	45.74	A16S
ATOM	19089	C5*	A	A	915	177.491	100.362	-13.085	1.00	45.74	A16S

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ATOM	19090	C4*	A	A 915	176.539	100.116	-14.227	1.00	45.74	A16S
ATOM	19091	O4*	A	A 915	175.211	99.828	-13.723	1.00	45.74	A16S
ATOM	19092	C1*	A	A 915	174.235	100.253	-14.667	1.00	45.74	A16S
ATOM	19093	N9	A	A 915	173.381	101.276	-14.055	1.00	45.80	A16S
ATOM	19094	C4	A	A 915	172.202	101.734	-14.585	1.00	45.80	A16S
ATOM	19095	N3	A	A 915	171.576	101.281	-15.679	1.00	45.80	A16S
ATOM	19096	C2	A	A 915	170.482	101.990	-15.915	1.00	45.80	A16S
ATOM	19097	N1	A	A 915	169.995	103.033	-15.249	1.00	45.80	A16S
ATOM	19098	C6	A	A 915	170.663	103.470	-14.163	1.00	45.80	A16S
ATOM	19099	N6	A	A 915	170.207	104.546	-13.523	1.00	45.80	A16S
ATOM	19100	C5	A	A 915	171.810	102.780	-13.784	1.00	45.80	A16S
ATOM	19101	N7	A	A 915	172.681	102.937	-12.720	1.00	45.80	A16S
ATOM	19102	C8	A	A 915	173.589	102.016	-12.921	1.00	45.80	A16S
ATOM	19103	C2*	A	A 915	174.988	100.868	-15.845	1.00	45.74	A16S
ATOM	19104	O2*	A	A 915	175.157	99.922	-16.882	1.00	45.74	A16S
ATOM	19105	C3*	A	A 915	176.302	101.258	-15.189	1.00	45.74	A16S
ATOM	19106	O3*	A	A 915	177.325	101.438	-16.130	1.00	45.74	A16S
ATOM	19107	P	G	A 916	177.933	102.907	-16.321	1.00	43.01	A16S
ATOM	19108	O1P	G	A 916	178.884	102.864	-17.463	1.00	48.51	A16S
ATOM	19109	O2P	G	A 916	178.400	103.349	-14.968	1.00	48.51	A16S
ATOM	19110	O5*	G	A 916	176.689	103.817	-16.747	1.00	43.01	A16S
ATOM	19111	C5*	G	A 916	175.835	103.411	-17.828	1.00	43.01	A16S
ATOM	19112	C4*	G	A 916	174.602	104.302	-17.948	1.00	43.01	A16S
ATOM	19113	O4*	G	A 916	173.696	104.145	-16.820	1.00	43.01	A16S
ATOM	19114	C1*	G	A 916	172.865	105.291	-16.738	1.00	43.01	A16S
ATOM	19115	N9	G	A 916	172.992	105.884	-15.412	1.00	48.51	A16S
ATOM	19116	C4	G	A 916	172.319	106.997	-14.949	1.00	48.51	A16S
ATOM	19117	N3	G	A 916	171.390	107.706	-15.627	1.00	48.51	A16S
ATOM	19118	C2	G	A 916	170.945	108.737	-14.926	1.00	48.51	A16S
ATOM	19119	N2	G	A 916	170.010	109.539	-15.441	1.00	48.51	A16S
ATOM	19120	N1	G	A 916	171.385	109.057	-13.671	1.00	48.51	A16S
ATOM	19121	C6	G	A 916	172.351	108.356	-12.963	1.00	48.51	A16S
ATOM	19122	O6	G	A 916	172.712	108.760	-11.856	1.00	48.51	A16S
ATOM	19123	C5	G	A 916	172.817	107.225	-13.690	1.00	48.51	A16S
ATOM	19124	N7	G	A 916	173.751	106.256	-13.347	1.00	48.51	A16S
ATOM	19125	C8	G	A 916	173.816	105.480	-14.395	1.00	48.51	A16S
ATOM	19126	C2*	G	A 916	173.312	106.265	-17.834	1.00	43.01	A16S
ATOM	19127	O2*	G	A 916	172.535	106.042	-18.995	1.00	43.01	A16S
ATOM	19128	C3*	G	A 916	174.735	105.812	-18.106	1.00	43.01	A16S
ATOM	19129	O3*	G	A 916	175.066	106.192	-19.433	1.00	43.01	A16S
ATOM	19130	P	G	A 917	175.818	107.593	-19.699	1.00	29.11	A16S
ATOM	19131	O1P	G	A 917	176.426	107.486	-21.059	1.00	37.97	A16S
ATOM	19132	O2P	G	A 917	176.670	107.947	-18.531	1.00	37.97	A16S
ATOM	19133	O5*	G	A 917	174.659	108.688	-19.761	1.00	29.11	A16S
ATOM	19134	C5*	G	A 917	173.611	108.589	-20.745	1.00	29.11	A16S
ATOM	19135	C4*	G	A 917	172.597	109.685	-20.549	1.00	29.11	A16S
ATOM	19136	O4*	G	A 917	171.923	109.524	-19.281	1.00	29.11	A16S
ATOM	19137	C1*	G	A 917	171.632	110.789	-18.735	1.00	29.11	A16S
ATOM	19138	N9	G	A 917	172.318	110.888	-17.456	1.00	37.97	A16S
ATOM	19139	C4	G	A 917	172.100	111.832	-16.497	1.00	37.97	A16S
ATOM	19140	N3	G	A 917	171.246	112.867	-16.592	1.00	37.97	A16S
ATOM	19141	C2	G	A 917	171.231	113.598	-15.492	1.00	37.97	A16S
ATOM	19142	N2	G	A 917	170.431	114.669	-15.420	1.00	37.97	A16S
ATOM	19143	N1	G	A 917	171.994	113.330	-14.383	1.00	37.97	A16S
ATOM	19144	C6	G	A 917	172.875	112.260	-14.266	1.00	37.97	A16S
ATOM	19145	O6	G	A 917	173.498	112.092	-13.220	1.00	37.97	A16S
ATOM	19146	C5	G	A 917	172.908	111.479	-15.443	1.00	37.97	A16S
ATOM	19147	N7	G	A 917	173.653	110.351	-15.750	1.00	37.97	A16S
ATOM	19148	C8	G	A 917	173.275	110.040	-16.958	1.00	37.97	A16S
ATOM	19149	C2*	G	A 917	172.070	111.838	-19.748	1.00	29.11	A16S
ATOM	19150	O2*	G	A 917	170.985	112.094	-20.616	1.00	29.11	A16S
ATOM	19151	C3*	G	A 917	173.153	111.087	-20.488	1.00	29.11	A16S
ATOM	19152	O3*	G	A 917	173.332	111.598	-21.773	1.00	29.11	A16S
ATOM	19153	P	A	A 918	174.590	112.525	-22.052	1.00	31.15	A16S
ATOM	19154	O1P	A	A 918	174.679	112.763	-23.523	1.00	32.34	A16S
ATOM	19155	O2P	A	A 918	175.744	111.930	-21.307	1.00	32.34	A16S
ATOM	19156	O5*	A	A 918	174.198	113.882	-21.330	1.00	31.15	A16S
ATOM	19157	C5*	A	A 918	173.162	114.713	-21.859	1.00	31.15	A16S
ATOM	19158	C4*	A	A 918	172.887	115.833	-20.906	1.00	31.15	A16S
ATOM	19159	O4*	A	A 918	172.404	115.263	-19.670	1.00	31.15	A16S
ATOM	19160	C1*	A	A 918	172.801	116.075	-18.587	1.00	31.15	A16S
ATOM	19161	N9	A	A 918	173.593	115.275	-17.670	1.00	32.34	A16S
ATOM	19162	C4	A	A 918	173.809	115.547	-16.341	1.00	32.34	A16S
ATOM	19163	N3	A	A 918	173.324	116.573	-15.627	1.00	32.34	A16S
ATOM	19164	C2	A	A 918	173.754	116.507	-14.368	1.00	32.34	A16S
ATOM	19165	N1	A	A 918	174.552	115.604	-13.790	1.00	32.34	A16S
ATOM	19166	C6	A	A 918	175.015	114.590	-14.542	1.00	32.34	A16S

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ATOM	19167	N6	A	A	918	175.805	113.686	-13.983	1.00	32.34	A16S
ATOM	19168	C5	A	A	918	174.636	114.543	-15.883	1.00	32.34	A16S
ATOM	19169	N7	A	A	918	174.930	113.649	-16.901	1.00	32.34	A16S
ATOM	19170	C8	A	A	918	174.283	114.125	-17.937	1.00	32.34	A16S
ATOM	19171	C2*	A	A	918	173.602	117.238	-19.151	1.00	31.15	A16S
ATOM	19172	O2*	A	A	918	172.679	118.295	-19.313	1.00	31.15	A16S
ATOM	19173	C3*	A	A	918	174.078	116.672	-20.480	1.00	31.15	A16S
ATOM	19174	O3*	A	A	918	174.333	117.702	-21.418	1.00	31.15	A16S
ATOM	19175	P	A	A	919	175.748	118.481	-21.390	1.00	35.47	A16S
ATOM	19176	O1P	A	A	919	175.684	119.525	-22.482	1.00	35.95	A16S
ATOM	19177	O2P	A	A	919	176.871	117.478	-21.355	1.00	35.95	A16S
ATOM	19178	O5*	A	A	919	175.776	119.236	-19.988	1.00	35.47	A16S
ATOM	19179	C5*	A	A	919	175.024	120.444	-19.776	1.00	35.47	A16S
ATOM	19180	C4*	A	A	919	175.020	120.788	-18.310	1.00	35.47	A16S
ATOM	19181	O4*	A	A	919	174.584	119.620	-17.574	1.00	35.47	A16S
ATOM	19182	C1*	A	A	919	175.286	119.528	-16.358	1.00	35.47	A16S
ATOM	19183	N9	A	A	919	176.088	118.318	-16.396	1.00	35.95	A16S
ATOM	19184	C4	A	A	919	176.668	117.723	-15.306	1.00	35.95	A16S
ATOM	19185	N3	A	A	919	176.600	118.128	-14.029	1.00	35.95	A16S
ATOM	19186	C2	A	A	919	177.274	117.308	-13.242	1.00	35.95	A16S
ATOM	19187	N1	A	A	919	177.951	116.217	-13.555	1.00	35.95	A16S
ATOM	19188	C6	A	A	919	177.993	115.831	-14.846	1.00	35.95	A16S
ATOM	19189	N6	A	A	919	178.655	114.715	-15.158	1.00	35.95	A16S
ATOM	19190	C5	A	A	919	177.326	116.622	-15.786	1.00	35.95	A16S
ATOM	19191	N7	A	A	919	177.174	116.519	-17.161	1.00	35.95	A16S
ATOM	19192	C8	A	A	919	176.429	117.549	-17.472	1.00	35.95	A16S
ATOM	19193	C2*	A	A	919	176.172	120.759	-16.236	1.00	35.47	A16S
ATOM	19194	O2*	A	A	919	175.445	121.717	-15.497	1.00	35.47	A16S
ATOM	19195	C3*	A	A	919	176.365	121.135	-17.697	1.00	35.47	A16S
ATOM	19196	O3*	A	A	919	176.633	122.512	-17.843	1.00	35.47	A16S
ATOM	19197	P	U	A	920	178.127	123.055	-17.623	1.00	34.94	A16S
ATOM	19198	O1P	U	A	920	178.052	124.526	-17.870	1.00	50.49	A16S
ATOM	19199	O2P	U	A	920	179.073	122.223	-18.398	1.00	50.49	A16S
ATOM	19200	O5*	U	A	920	178.428	122.808	-16.077	1.00	34.94	A16S
ATOM	19201	C5*	U	A	920	177.748	123.608	-15.108	1.00	34.94	A16S
ATOM	19202	C4*	U	A	920	178.389	123.477	-13.765	1.00	34.94	A16S
ATOM	19203	O4*	U	A	920	178.129	122.169	-13.224	1.00	34.94	A16S
ATOM	19204	C1*	U	A	920	179.222	121.772	-12.422	1.00	34.94	A16S
ATOM	19205	N1	U	A	920	179.745	120.497	-12.942	1.00	50.49	A16S
ATOM	19206	C6	U	A	920	179.495	120.086	-14.239	1.00	50.49	A16S
ATOM	19207	C2	U	A	920	180.487	119.699	-12.071	1.00	50.49	A16S
ATOM	19208	O2	U	A	920	180.757	120.023	-10.918	1.00	50.49	A16S
ATOM	19209	N3	U	A	920	180.895	118.502	-12.596	1.00	50.49	A16S
ATOM	19210	C4	U	A	920	180.648	118.017	-13.861	1.00	50.49	A16S
ATOM	19211	O4	U	A	920	180.962	116.852	-14.121	1.00	50.49	A16S
ATOM	19212	C5	U	A	920	179.907	118.905	-14.711	1.00	50.49	A16S
ATOM	19213	C2*	U	A	920	180.238	122.913	-12.423	1.00	34.94	A16S
ATOM	19214	O2*	U	A	920	179.992	123.749	-11.310	1.00	34.94	A16S
ATOM	19215	C3*	U	A	920	179.891	123.624	-13.718	1.00	34.94	A16S
ATOM	19216	O3*	U	A	920	180.269	124.984	-13.658	1.00	34.94	A16S
ATOM	19217	P	U	A	921	181.772	125.397	-14.043	1.00	34.66	A16S
ATOM	19218	O1P	U	A	921	181.829	126.889	-14.116	1.00	45.08	A16S
ATOM	19219	O2P	U	A	921	182.144	124.584	-15.243	1.00	45.08	A16S
ATOM	19220	O5*	U	A	921	182.630	124.891	-12.798	1.00	34.66	A16S
ATOM	19221	C5*	U	A	921	182.620	125.625	-11.573	1.00	34.66	A16S
ATOM	19222	C4*	U	A	921	183.412	124.895	-10.533	1.00	34.66	A16S
ATOM	19223	O4*	U	A	921	182.854	123.569	-10.400	1.00	34.66	A16S
ATOM	19224	C1*	U	A	921	183.874	122.648	-10.072	1.00	34.66	A16S
ATOM	19225	N1	U	A	921	183.898	121.589	-11.089	1.00	45.08	A16S
ATOM	19226	C6	U	A	921	183.421	121.794	-12.364	1.00	45.08	A16S
ATOM	19227	C2	U	A	921	184.424	120.363	-10.712	1.00	45.08	A16S
ATOM	19228	O2	U	A	921	184.855	120.146	-9.587	1.00	45.08	A16S
ATOM	19229	N3	U	A	921	184.429	119.404	-11.697	1.00	45.08	A16S
ATOM	19230	C4	U	A	921	183.972	119.541	-12.992	1.00	45.08	A16S
ATOM	19231	O4	U	A	921	184.134	118.614	-13.792	1.00	45.08	A16S
ATOM	19232	C5	U	A	921	183.434	120.838	-13.300	1.00	45.08	A16S
ATOM	19233	C2*	U	A	921	185.186	123.416	-10.002	1.00	34.66	A16S
ATOM	19234	O2*	U	A	921	185.433	123.744	-8.655	1.00	34.66	A16S
ATOM	19235	C3*	U	A	921	184.868	124.634	-10.854	1.00	34.66	A16S
ATOM	19236	O3*	U	A	921	185.696	125.721	-10.518	1.00	34.66	A16S
ATOM	19237	P	G	A	922	187.046	125.955	-11.354	1.00	42.48	A16S
ATOM	19238	O1P	G	A	922	187.794	127.017	-10.616	1.00	45.17	A16S
ATOM	19239	O2P	G	A	922	186.701	126.166	-12.798	1.00	45.17	A16S
ATOM	19240	O5*	G	A	922	187.834	124.567	-11.192	1.00	42.48	A16S
ATOM	19241	C5*	G	A	922	188.526	124.288	-9.959	1.00	42.48	A16S
ATOM	19242	C4*	G	A	922	189.166	122.904	-9.939	1.00	42.48	A16S
ATOM	19243	O4*	G	A	922	188.184	121.860	-10.148	1.00	42.48	A16S

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ATOM	19244	C1*	G	A	922	188.841	120.680	-10.578	1.00	42.48	A16S
ATOM	19245	N9	G	A	922	188.254	120.231	-11.839	1.00	45.17	A16S
ATOM	19246	C4	G	A	922	188.300	118.951	-12.345	1.00	45.17	A16S
ATOM	19247	N3	G	A	922	188.908	117.897	-11.770	1.00	45.17	A16S
ATOM	19248	C2	G	A	922	188.790	116.804	-12.496	1.00	45.17	A16S
ATOM	19249	N2	G	A	922	189.353	115.668	-12.072	1.00	45.17	A16S
ATOM	19250	N1	G	A	922	188.113	116.749	-13.687	1.00	45.17	A16S
ATOM	19251	C6	G	A	922	187.465	117.822	-14.288	1.00	45.17	A16S
ATOM	19252	O6	G	A	922	186.851	117.662	-15.348	1.00	45.17	A16S
ATOM	19253	C5	G	A	922	187.606	119.001	-13.536	1.00	45.17	A16S
ATOM	19254	N7	G	A	922	187.145	120.285	-13.790	1.00	45.17	A16S
ATOM	19255	C8	G	A	922	187.552	120.982	-12.759	1.00	45.17	A16S
ATOM	19256	C2*	G	A	922	190.328	121.006	-10.705	1.00	42.48	A16S
ATOM	19257	O2*	G	A	922	190.967	120.623	-9.505	1.00	42.48	A16S
ATOM	19258	C3*	G	A	922	190.321	122.523	-10.854	1.00	42.48	A16S
ATOM	19259	O3*	G	A	922	191.570	123.024	-10.371	1.00	42.48	A16S
ATOM	19260	P	A	A	923	192.879	122.989	-11.317	1.00	53.67	A16S
ATOM	19261	O1P	A	A	923	194.009	123.502	-10.525	1.00	48.65	A16S
ATOM	19262	O2P	A	A	923	192.572	123.609	-12.634	1.00	48.65	A16S
ATOM	19263	O5*	A	A	923	193.173	121.441	-11.528	1.00	53.67	A16S
ATOM	19264	C5*	A	A	923	193.721	120.644	-10.467	1.00	53.67	A16S
ATOM	19265	C4*	A	A	923	193.921	119.224	-10.940	1.00	53.67	A16S
ATOM	19266	O4*	A	A	923	192.629	118.631	-11.220	1.00	53.67	A16S
ATOM	19267	C1*	A	A	923	192.708	117.832	-12.387	1.00	53.67	A16S
ATOM	19268	N9	A	A	923	191.941	118.506	-13.430	1.00	48.65	A16S
ATOM	19269	C4	A	A	923	191.255	117.918	-14.459	1.00	48.65	A16S
ATOM	19270	N3	A	A	923	191.177	116.608	-14.740	1.00	48.65	A16S
ATOM	19271	C2	A	A	923	190.401	116.405	-15.803	1.00	48.65	A16S
ATOM	19272	N1	A	A	923	189.741	117.303	-16.553	1.00	48.65	A16S
ATOM	19273	C6	A	A	923	189.843	118.612	-16.233	1.00	48.65	A16S
ATOM	19274	N6	A	A	923	189.170	119.503	-16.959	1.00	48.65	A16S
ATOM	19275	C5	A	A	923	190.645	118.953	-15.143	1.00	48.65	A16S
ATOM	19276	N7	A	A	923	190.969	120.174	-14.577	1.00	48.65	A16S
ATOM	19277	C8	A	A	923	191.744	119.856	-13.573	1.00	48.65	A16S
ATOM	19278	C2*	A	A	923	194.177	117.751	-12.782	1.00	53.67	A16S
ATOM	19279	O2*	A	A	923	194.783	116.630	-12.158	1.00	53.67	A16S
ATOM	19280	C3*	A	A	923	194.694	119.073	-12.242	1.00	53.67	A16S
ATOM	19281	O3*	A	A	923	196.097	119.051	-12.057	1.00	53.67	A16S
ATOM	19282	P	C	A	924	197.056	119.512	-13.260	1.00	52.25	A16S
ATOM	19283	O1P	C	A	924	198.437	119.411	-12.685	1.00	49.69	A16S
ATOM	19284	O2P	C	A	924	196.576	120.814	-13.802	1.00	49.69	A16S
ATOM	19285	O5*	C	A	924	196.827	118.399	-14.389	1.00	52.25	A16S
ATOM	19286	C5*	C	A	924	197.244	117.028	-14.176	1.00	52.25	A16S
ATOM	19287	C4*	C	A	924	196.807	116.136	-15.323	1.00	52.25	A16S
ATOM	19288	O4*	C	A	924	195.359	116.076	-15.357	1.00	52.25	A16S
ATOM	19289	C1*	C	A	924	194.922	115.979	-16.702	1.00	52.25	A16S
ATOM	19290	N1	C	A	924	194.164	117.198	-17.037	1.00	49.69	A16S
ATOM	19291	C6	C	A	924	194.477	118.392	-16.461	1.00	49.69	A16S
ATOM	19292	C2	C	A	924	193.131	117.124	-17.981	1.00	49.69	A16S
ATOM	19293	O2	C	A	924	192.847	116.027	-18.482	1.00	49.69	A16S
ATOM	19294	N3	C	A	924	192.472	118.246	-18.329	1.00	49.69	A16S
ATOM	19295	C4	C	A	924	192.811	119.407	-17.784	1.00	49.69	A16S
ATOM	19296	N4	C	A	924	192.169	120.498	-18.190	1.00	49.69	A16S
ATOM	19297	C5	C	A	924	193.836	119.509	-16.806	1.00	49.69	A16S
ATOM	19298	C2*	C	A	924	196.163	115.859	-17.591	1.00	52.25	A16S
ATOM	19299	O2*	C	A	924	196.444	114.496	-17.858	1.00	52.25	A16S
ATOM	19300	C3*	C	A	924	197.221	116.544	-16.735	1.00	52.25	A16S
ATOM	19301	O3*	C	A	924	198.541	116.111	-17.075	1.00	52.25	A16S
ATOM	19302	P	G	A	925	199.329	116.794	-18.314	1.00	46.77	A16S
ATOM	19303	O1P	G	A	925	200.662	116.151	-18.291	1.00	53.22	A16S
ATOM	19304	O2P	G	A	925	199.240	118.282	-18.301	1.00	53.22	A16S
ATOM	19305	O5*	G	A	925	198.541	116.289	-19.605	1.00	46.77	A16S
ATOM	19306	C5*	G	A	925	198.654	114.925	-20.068	1.00	46.77	A16S
ATOM	19307	C4*	G	A	925	198.050	114.802	-21.443	1.00	46.77	A16S
ATOM	19308	O4*	G	A	925	196.613	114.958	-21.346	1.00	46.77	A16S
ATOM	19309	C1*	G	A	925	196.136	115.724	-22.446	1.00	46.77	A16S
ATOM	19310	N9	G	A	925	195.471	116.918	-21.922	1.00	53.22	A16S
ATOM	19311	C4	G	A	925	194.438	117.627	-22.505	1.00	53.22	A16S
ATOM	19312	N3	G	A	925	193.831	117.339	-23.674	1.00	53.22	A16S
ATOM	19313	C2	G	A	925	192.874	118.213	-23.962	1.00	53.22	A16S
ATOM	19314	N2	G	A	925	192.160	118.078	-25.092	1.00	53.22	A16S
ATOM	19315	N1	G	A	925	192.543	119.286	-23.170	1.00	53.22	A16S
ATOM	19316	C6	G	A	925	193.157	119.608	-21.967	1.00	53.22	A16S
ATOM	19317	O6	G	A	925	192.794	120.618	-21.330	1.00	53.22	A16S
ATOM	19318	C5	G	A	925	194.181	118.671	-21.641	1.00	53.22	A16S
ATOM	19319	N7	G	A	925	195.021	118.614	-20.541	1.00	53.22	A16S
ATOM	19320	C8	G	A	925	195.764	117.563	-20.750	1.00	53.22	A16S

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ATOM	19321	C2*	G	A	925	197.332	116.039	-23.354	1.00	46.77	A16S
ATOM	19322	O2*	G	A	925	197.394	115.127	-24.427	1.00	46.77	A16S
ATOM	19323	C3*	G	A	925	198.503	115.894	-22.396	1.00	46.77	A16S
ATOM	19324	O3*	G	A	925	199.678	115.516	-23.080	1.00	46.77	A16S
ATOM	19325	P	G	A	926	200.851	116.591	-23.296	1.00	62.37	A16S
ATOM	19326	O1P	G	A	926	201.919	116.235	-22.318	1.00	48.26	A16S
ATOM	19327	O2P	G	A	926	200.291	117.968	-23.327	1.00	48.26	A16S
ATOM	19328	O5*	G	A	926	201.379	116.289	-24.762	1.00	62.37	A16S
ATOM	19329	C5*	G	A	926	200.469	115.856	-25.763	1.00	62.37	A16S
ATOM	19330	C4*	G	A	926	201.149	114.920	-26.715	1.00	62.37	A16S
ATOM	19331	O4*	G	A	926	202.150	114.118	-26.034	1.00	62.37	A16S
ATOM	19332	C1*	G	A	926	202.147	112.802	-26.566	1.00	62.37	A16S
ATOM	19333	N9	G	A	926	201.892	111.858	-25.477	1.00	48.26	A16S
ATOM	19334	C4	G	A	926	202.115	110.490	-25.482	1.00	48.26	A16S
ATOM	19335	N3	G	A	926	202.572	109.757	-26.521	1.00	48.26	A16S
ATOM	19336	C2	G	A	926	202.707	108.472	-26.202	1.00	48.26	A16S
ATOM	19337	N2	G	A	926	203.132	107.593	-27.120	1.00	48.26	A16S
ATOM	19338	N1	G	A	926	202.431	107.949	-24.960	1.00	48.26	A16S
ATOM	19339	C6	G	A	926	201.956	108.678	-23.874	1.00	48.26	A16S
ATOM	19340	O6	G	A	926	201.735	108.103	-22.785	1.00	48.26	A16S
ATOM	19341	C5	G	A	926	201.789	110.063	-24.207	1.00	48.26	A16S
ATOM	19342	N7	G	A	926	201.336	111.123	-23.434	1.00	48.26	A16S
ATOM	19343	C8	G	A	926	201.410	112.162	-24.226	1.00	48.26	A16S
ATOM	19344	C2*	G	A	926	201.119	112.765	-27.699	1.00	62.37	A16S
ATOM	19345	O2*	G	A	926	201.825	112.997	-28.903	1.00	62.37	A16S
ATOM	19346	C3*	G	A	926	200.191	113.919	-27.322	1.00	62.37	A16S
ATOM	19347	O3*	G	A	926	199.487	114.509	-28.410	1.00	62.37	A16S
ATOM	19348	P	G	A	927	198.043	115.185	-28.154	1.00	50.95	A16S
ATOM	19349	O1P	G	A	927	197.398	114.497	-27.010	1.00	56.02	A16S
ATOM	19350	O2P	G	A	927	197.317	115.267	-29.448	1.00	56.02	A16S
ATOM	19351	O5*	G	A	927	198.401	116.677	-27.716	1.00	50.95	A16S
ATOM	19352	C5*	G	A	927	197.469	117.469	-26.964	1.00	50.95	A16S
ATOM	19353	C4*	G	A	927	196.614	118.301	-27.891	1.00	50.95	A16S
ATOM	19354	O4*	G	A	927	195.269	118.312	-27.357	1.00	50.95	A16S
ATOM	19355	C1*	G	A	927	194.684	119.589	-27.541	1.00	50.95	A16S
ATOM	19356	N9	G	A	927	194.573	120.230	-26.236	1.00	56.02	A16S
ATOM	19357	C4	G	A	927	193.776	121.295	-25.938	1.00	56.02	A16S
ATOM	19358	N3	G	A	927	192.934	121.906	-26.795	1.00	56.02	A16S
ATOM	19359	C2	G	A	927	192.322	122.924	-26.235	1.00	56.02	A16S
ATOM	19360	N2	G	A	927	191.453	123.652	-26.959	1.00	56.02	A16S
ATOM	19361	N1	G	A	927	192.519	123.308	-24.925	1.00	56.02	A16S
ATOM	19362	C6	G	A	927	193.384	122.690	-24.025	1.00	56.02	A16S
ATOM	19363	O6	G	A	927	193.494	123.121	-22.860	1.00	56.02	A16S
ATOM	19364	C5	G	A	927	194.048	121.599	-24.621	1.00	56.02	A16S
ATOM	19365	N7	G	A	927	194.988	120.723	-24.095	1.00	56.02	A16S
ATOM	19366	C8	G	A	927	195.266	119.925	-25.084	1.00	56.02	A16S
ATOM	19367	C2*	G	A	927	195.639	120.408	-28.398	1.00	50.95	A16S
ATOM	19368	O2*	G	A	927	195.268	120.289	-29.754	1.00	50.95	A16S
ATOM	19369	C3*	G	A	927	196.976	119.772	-28.047	1.00	50.95	A16S
ATOM	19370	O3*	G	A	927	197.933	120.041	-29.046	1.00	50.95	A16S
ATOM	19371	P	G	A	928	198.686	121.460	-29.047	1.00	53.84	A16S
ATOM	19372	O1P	G	A	928	199.486	121.509	-30.293	1.00	49.61	A16S
ATOM	19373	O2P	G	A	928	199.368	121.632	-27.728	1.00	49.61	A16S
ATOM	19374	O5*	G	A	928	197.517	122.535	-29.209	1.00	53.84	A16S
ATOM	19375	C5*	G	A	928	196.856	122.704	-30.481	1.00	53.84	A16S
ATOM	19376	C4*	G	A	928	196.003	123.959	-30.495	1.00	53.84	A16S
ATOM	19377	O4*	G	A	928	194.890	123.821	-29.572	1.00	53.84	A16S
ATOM	19378	C1*	G	A	928	194.604	125.070	-28.960	1.00	53.84	A16S
ATOM	19379	N9	G	A	928	194.908	124.961	-27.531	1.00	49.61	A16S
ATOM	19380	C4	G	A	928	194.557	125.852	-26.544	1.00	49.61	A16S
ATOM	19381	N3	G	A	928	193.830	126.980	-26.709	1.00	49.61	A16S
ATOM	19382	C2	G	A	928	193.663	127.635	-25.567	1.00	49.61	A16S
ATOM	19383	N2	G	A	928	192.932	128.769	-25.542	1.00	49.61	A16S
ATOM	19384	N1	G	A	928	194.191	127.224	-24.364	1.00	49.61	A16S
ATOM	19385	C6	G	A	928	194.952	126.073	-24.175	1.00	49.61	A16S
ATOM	19386	O6	G	A	928	195.405	125.806	-23.053	1.00	49.61	A16S
ATOM	19387	C5	G	A	928	195.111	125.348	-25.385	1.00	49.61	A16S
ATOM	19388	N7	G	A	928	195.767	124.152	-25.630	1.00	49.61	A16S
ATOM	19389	C8	G	A	928	195.622	123.963	-26.911	1.00	49.61	A16S
ATOM	19390	C2*	G	A	928	195.496	126.104	-29.640	1.00	53.84	A16S
ATOM	19391	O2*	G	A	928	194.784	126.653	-30.730	1.00	53.84	A16S
ATOM	19392	C3*	G	A	928	196.679	125.247	-30.074	1.00	53.84	A16S
ATOM	19393	O3*	G	A	928	197.438	125.833	-31.117	1.00	53.84	A16S
ATOM	19394	P	G	A	929	198.722	126.734	-30.743	1.00	56.70	A16S
ATOM	19395	O1P	G	A	929	199.392	127.091	-32.022	1.00	47.08	A16S
ATOM	19396	O2P	G	A	929	199.505	126.066	-29.664	1.00	47.08	A16S
ATOM	19397	O5*	G	A	929	198.083	128.058	-30.139	1.00	56.70	A16S

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ATOM	19398	C5*	G	A	929	197.172	128.826	-30.932	1.00	56.70	A16S
ATOM	19399	C4*	G	A	929	196.653	129.997	-30.151	1.00	56.70	A16S
ATOM	19400	O4*	G	A	929	195.772	129.534	-29.101	1.00	56.70	A16S
ATOM	19401	C1*	G	A	929	195.875	130.397	-27.985	1.00	56.70	A16S
ATOM	19402	N9	G	A	929	196.323	129.620	-26.835	1.00	47.08	A16S
ATOM	19403	C4	G	A	929	196.282	130.039	-25.532	1.00	47.08	A16S
ATOM	19404	N3	G	A	929	195.812	131.231	-25.102	1.00	47.08	A16S
ATOM	19405	C2	G	A	929	195.884	131.346	-23.789	1.00	47.08	A16S
ATOM	19406	N2	G	A	929	195.437	132.459	-23.203	1.00	47.08	A16S
ATOM	19407	N1	G	A	929	196.390	130.373	-22.957	1.00	47.08	A16S
ATOM	19408	C6	G	A	929	196.878	129.138	-23.376	1.00	47.08	A16S
ATOM	19409	O6	G	A	929	197.299	128.330	-22.544	1.00	47.08	A16S
ATOM	19410	C5	G	A	929	196.801	128.998	-24.792	1.00	47.08	A16S
ATOM	19411	N7	G	A	929	197.167	127.941	-25.619	1.00	47.08	A16S
ATOM	19412	C8	G	A	929	196.866	128.354	-26.822	1.00	47.08	A16S
ATOM	19413	C2*	G	A	929	196.872	131.499	-28.340	1.00	56.70	A16S
ATOM	19414	O2*	G	A	929	196.190	132.638	-28.829	1.00	56.70	A16S
ATOM	19415	C3*	G	A	929	197.693	130.824	-29.425	1.00	56.70	A16S
ATOM	19416	O3*	G	A	929	198.344	131.758	-30.258	1.00	56.70	A16S
ATOM	19417	P	C	A	930	199.792	132.293	-29.831	1.00	64.90	A16S
ATOM	19418	O1P	C	A	930	200.158	133.312	-30.832	1.00	53.42	A16S
ATOM	19419	O2P	C	A	930	200.714	131.143	-29.575	1.00	53.42	A16S
ATOM	19420	O5*	C	A	930	199.523	133.041	-28.450	1.00	64.90	A16S
ATOM	19421	C5*	C	A	930	198.667	134.189	-28.404	1.00	64.90	A16S
ATOM	19422	C4*	C	A	930	198.601	134.743	-27.006	1.00	64.90	A16S
ATOM	19423	O4*	C	A	930	197.930	133.819	-26.114	1.00	64.90	A16S
ATOM	19424	C1*	C	A	930	198.411	134.008	-24.798	1.00	64.90	A16S
ATOM	19425	N1	C	A	930	198.920	132.746	-24.268	1.00	53.42	A16S
ATOM	19426	C6	C	A	930	199.313	131.732	-25.090	1.00	53.42	A16S
ATOM	19427	C2	C	A	930	199.002	132.603	-22.880	1.00	53.42	A16S
ATOM	19428	O2	C	A	930	198.655	133.548	-22.160	1.00	53.42	A16S
ATOM	19429	N3	C	A	930	199.459	131.450	-22.361	1.00	53.42	A16S
ATOM	19430	C4	C	A	930	199.836	130.466	-23.170	1.00	53.42	A16S
ATOM	19431	N4	C	A	930	200.277	129.352	-22.618	1.00	53.42	A16S
ATOM	19432	C5	C	A	930	199.775	130.585	-24.587	1.00	53.42	A16S
ATOM	19433	C2*	C	A	930	199.532	135.034	-24.848	1.00	64.90	A16S
ATOM	19434	O2*	C	A	930	199.018	136.279	-24.414	1.00	64.90	A16S
ATOM	19435	C3*	C	A	930	199.925	134.987	-26.319	1.00	64.90	A16S
ATOM	19436	O3*	C	A	930	200.514	136.194	-26.733	1.00	64.90	A16S
ATOM	19437	P	C	A	931	202.100	136.388	-26.580	1.00	58.26	A16S
ATOM	19438	O1P	C	A	931	202.299	137.848	-26.848	1.00	40.18	A16S
ATOM	19439	O2P	C	A	931	202.802	135.372	-27.416	1.00	40.18	A16S
ATOM	19440	O5*	C	A	931	202.416	136.063	-25.045	1.00	58.26	A16S
ATOM	19441	C5*	C	A	931	201.922	136.933	-24.014	1.00	58.26	A16S
ATOM	19442	C4*	C	A	931	202.395	136.498	-22.651	1.00	58.26	A16S
ATOM	19443	O4*	C	A	931	201.753	135.273	-22.226	1.00	58.26	A16S
ATOM	19444	C1*	C	A	931	202.507	134.717	-21.170	1.00	58.26	A16S
ATOM	19445	N1	C	A	931	202.726	133.278	-21.384	1.00	40.18	A16S
ATOM	19446	C6	C	A	931	202.739	132.725	-22.634	1.00	40.18	A16S
ATOM	19447	C2	C	A	931	202.984	132.478	-20.261	1.00	40.18	A16S
ATOM	19448	O2	C	A	931	202.887	132.982	-19.135	1.00	40.18	A16S
ATOM	19449	N3	C	A	931	203.329	131.183	-20.431	1.00	40.18	A16S
ATOM	19450	C4	C	A	931	203.403	130.674	-21.654	1.00	40.18	A16S
ATOM	19451	N4	C	A	931	203.816	129.428	-21.772	1.00	40.18	A16S
ATOM	19452	C5	C	A	931	203.074	131.434	-22.812	1.00	40.18	A16S
ATOM	19453	C2*	C	A	931	203.848	135.449	-21.127	1.00	58.26	A16S
ATOM	19454	O2*	C	A	931	203.842	136.305	-20.007	1.00	58.26	A16S
ATOM	19455	C3*	C	A	931	203.864	136.186	-22.466	1.00	58.26	A16S
ATOM	19456	O3*	C	A	931	204.663	137.372	-22.440	1.00	58.26	A16S
ATOM	19457	P	C	A	932	206.250	137.274	-22.117	1.00	42.70	A16S
ATOM	19458	O1P	C	A	932	206.857	138.600	-22.485	1.00	42.58	A16S
ATOM	19459	O2P	C	A	932	206.829	136.016	-22.679	1.00	42.58	A16S
ATOM	19460	O5*	C	A	932	206.275	137.127	-20.530	1.00	42.70	A16S
ATOM	19461	C5*	C	A	932	207.448	136.730	-19.848	1.00	42.70	A16S
ATOM	19462	C4*	C	A	932	207.106	136.373	-18.435	1.00	42.70	A16S
ATOM	19463	O4*	C	A	932	206.084	135.354	-18.448	1.00	42.70	A16S
ATOM	19464	C1*	C	A	932	206.367	134.383	-17.456	1.00	42.70	A16S
ATOM	19465	N1	C	A	932	206.557	133.086	-18.133	1.00	42.58	A16S
ATOM	19466	C6	C	A	932	206.412	132.977	-19.491	1.00	42.58	A16S
ATOM	19467	C2	C	A	932	206.911	131.957	-17.366	1.00	42.58	A16S
ATOM	19468	O2	C	A	932	207.010	132.071	-16.132	1.00	42.58	A16S
ATOM	19469	N3	C	A	932	207.132	130.775	-17.992	1.00	42.58	A16S
ATOM	19470	C4	C	A	932	207.003	130.687	-19.319	1.00	42.58	A16S
ATOM	19471	N4	C	A	932	207.245	129.509	-19.890	1.00	42.58	A16S
ATOM	19472	C5	C	A	932	206.623	131.809	-20.119	1.00	42.58	A16S
ATOM	19473	C2*	C	A	932	207.610	134.845	-16.684	1.00	42.70	A16S
ATOM	19474	O2*	C	A	932	207.250	135.518	-15.504	1.00	42.70	A16S

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ATOM	19475	C3*	C	A	932	208.275	135.764	-17.691	1.00	42.70	A16S
ATOM	19476	O3*	C	A	932	209.057	136.783	-17.098	1.00	42.70	A16S
ATOM	19477	P	G	A	933	210.638	136.829	-17.372	1.00	48.43	A16S
ATOM	19478	O1P	G	A	933	211.116	138.155	-16.894	1.00	42.40	A16S
ATOM	19479	O2P	G	A	933	210.961	136.404	-18.779	1.00	42.40	A16S
ATOM	19480	O5*	G	A	933	211.179	135.724	-16.366	1.00	48.43	A16S
ATOM	19481	C5*	G	A	933	211.054	135.919	-14.969	1.00	48.43	A16S
ATOM	19482	C4*	G	A	933	211.409	134.662	-14.241	1.00	48.43	A16S
ATOM	19483	O4*	G	A	933	210.453	133.636	-14.572	1.00	48.43	A16S
ATOM	19484	C1*	G	A	933	211.080	132.369	-14.529	1.00	48.43	A16S
ATOM	19485	N9	G	A	933	210.888	131.717	-15.818	1.00	42.40	A16S
ATOM	19486	C4	G	A	933	210.856	130.371	-16.036	1.00	42.40	A16S
ATOM	19487	N3	G	A	933	211.006	129.420	-15.097	1.00	42.40	A16S
ATOM	19488	C2	G	A	933	210.897	128.201	-15.613	1.00	42.40	A16S
ATOM	19489	N2	G	A	933	210.996	127.121	-14.810	1.00	42.40	A16S
ATOM	19490	N1	G	A	933	210.676	127.947	-16.948	1.00	42.40	A16S
ATOM	19491	C6	G	A	933	210.534	128.922	-17.929	1.00	42.40	A16S
ATOM	19492	O6	G	A	933	210.349	128.593	-19.103	1.00	42.40	A16S
ATOM	19493	C5	G	A	933	210.632	130.223	-17.390	1.00	42.40	A16S
ATOM	19494	N7	G	A	933	210.534	131.457	-18.012	1.00	42.40	A16S
ATOM	19495	C8	G	A	933	210.695	132.315	-17.044	1.00	42.40	A16S
ATOM	19496	C2*	G	A	933	212.547	132.587	-14.168	1.00	48.43	A16S
ATOM	19497	O2*	G	A	933	212.692	132.360	-12.781	1.00	48.43	A16S
ATOM	19498	C3*	G	A	933	212.752	134.045	-14.573	1.00	48.43	A16S
ATOM	19499	O3*	G	A	933	213.799	134.696	-13.858	1.00	48.43	A16S
ATOM	19500	P	C	A	934	214.998	135.406	-14.671	1.00	51.17	A16S
ATOM	19501	O1P	C	A	934	215.707	136.333	-13.736	1.00	67.71	A16S
ATOM	19502	O2P	C	A	934	214.453	135.934	-15.954	1.00	67.71	A16S
ATOM	19503	O5*	C	A	934	215.975	134.190	-14.992	1.00	51.17	A16S
ATOM	19504	C5*	C	A	934	216.387	133.271	-13.954	1.00	51.17	A16S
ATOM	19505	C4*	C	A	934	216.939	132.013	-14.576	1.00	51.17	A16S
ATOM	19506	O4*	C	A	934	218.032	132.364	-15.466	1.00	51.17	A16S
ATOM	19507	C1*	C	A	934	219.069	131.441	-15.286	1.00	51.17	A16S
ATOM	19508	N1	C	A	934	220.305	132.013	-15.828	1.00	67.71	A16S
ATOM	19509	C6	C	A	934	221.158	132.746	-15.055	1.00	67.71	A16S
ATOM	19510	C2	C	A	934	220.591	131.790	-17.182	1.00	67.71	A16S
ATOM	19511	O2	C	A	934	219.799	131.103	-17.865	1.00	67.71	A16S
ATOM	19512	N3	C	A	934	221.713	132.322	-17.716	1.00	67.71	A16S
ATOM	19513	C4	C	A	934	222.532	133.045	-16.955	1.00	67.71	A16S
ATOM	19514	N4	C	A	934	223.622	133.564	-17.529	1.00	67.71	A16S
ATOM	19515	C5	C	A	934	222.272	133.275	-15.573	1.00	67.71	A16S
ATOM	19516	C2*	C	A	934	218.989	131.037	-13.818	1.00	51.17	A16S
ATOM	19517	O2*	C	A	934	219.609	129.783	-13.630	1.00	51.17	A16S
ATOM	19518	C3*	C	A	934	217.478	130.921	-13.648	1.00	51.17	A16S
ATOM	19519	O3*	C	A	934	217.122	129.653	-14.198	1.00	51.17	A16S
ATOM	19520	P	A	A	935	215.916	128.806	-13.563	1.00	58.06	A16S
ATOM	19521	O1P	A	A	935	214.920	129.784	-13.049	1.00	42.83	A16S
ATOM	19522	O2P	A	A	935	216.492	127.785	-12.646	1.00	42.83	A16S
ATOM	19523	O5*	A	A	935	215.284	128.050	-14.813	1.00	58.06	A16S
ATOM	19524	C5*	A	A	935	214.891	126.679	-14.706	1.00	58.06	A16S
ATOM	19525	C4*	A	A	935	214.618	126.117	-16.067	1.00	58.06	A16S
ATOM	19526	O4*	A	A	935	213.504	126.823	-16.660	1.00	58.06	A16S
ATOM	19527	C1*	A	A	935	213.701	126.945	-18.053	1.00	58.06	A16S
ATOM	19528	N9	A	A	935	213.727	128.366	-18.389	1.00	42.83	A16S
ATOM	19529	C4	A	A	935	213.666	128.896	-19.660	1.00	42.83	A16S
ATOM	19530	N3	A	A	935	213.560	128.226	-20.821	1.00	42.83	A16S
ATOM	19531	C2	A	A	935	213.570	129.069	-21.855	1.00	42.83	A16S
ATOM	19532	N1	A	A	935	213.665	130.400	-21.863	1.00	42.83	A16S
ATOM	19533	C6	A	A	935	213.756	131.044	-20.683	1.00	42.83	A16S
ATOM	19534	N6	A	A	935	213.834	132.372	-20.695	1.00	42.83	A16S
ATOM	19535	C5	A	A	935	213.761	130.266	-19.506	1.00	42.83	A16S
ATOM	19536	N7	A	A	935	213.860	130.601	-18.161	1.00	42.83	A16S
ATOM	19537	C8	A	A	935	213.835	129.441	-17.542	1.00	42.83	A16S
ATOM	19538	C2*	A	A	935	215.017	126.244	-18.396	1.00	58.06	A16S
ATOM	19539	O2*	A	A	935	214.766	124.908	-18.779	1.00	58.06	A16S
ATOM	19540	C3*	A	A	935	215.746	126.288	-17.065	1.00	58.06	A16S
ATOM	19541	O3*	A	A	935	216.697	125.238	-16.949	1.00	58.06	A16S
ATOM	19542	P	C	A	936	218.186	125.446	-17.525	1.00	46.62	A16S
ATOM	19543	O1P	C	A	936	218.908	124.200	-17.136	1.00	39.46	A16S
ATOM	19544	O2P	C	A	936	218.737	126.773	-17.103	1.00	39.46	A16S
ATOM	19545	O5*	C	A	936	217.970	125.473	-19.107	1.00	46.62	A16S
ATOM	19546	C5*	C	A	936	217.590	124.280	-19.794	1.00	46.62	A16S
ATOM	19547	C4*	C	A	936	217.191	124.579	-21.211	1.00	46.62	A16S
ATOM	19548	O4*	C	A	936	216.130	125.562	-21.221	1.00	46.62	A16S
ATOM	19549	C1*	C	A	936	216.184	126.297	-22.432	1.00	46.62	A16S
ATOM	19550	N1	C	A	936	216.403	127.717	-22.146	1.00	39.46	A16S
ATOM	19551	C6	C	A	936	216.730	128.161	-20.898	1.00	39.46	A16S

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ATOM	19552	C2	C	A	936	216.282	128.614	-23.205	1.00	39.46	A16S
ATOM	19553	O2	C	A	936	215.976	128.171	-24.324	1.00	39.46	A16S
ATOM	19554	N3	C	A	936	216.498	129.927	-22.993	1.00	39.46	A16S
ATOM	19555	C4	C	A	936	216.829	130.355	-21.778	1.00	39.46	A16S
ATOM	19556	N4	C	A	936	217.059	131.659	-21.619	1.00	39.46	A16S
ATOM	19557	C5	C	A	936	216.950	129.461	-20.670	1.00	39.46	A16S
ATOM	19558	C2*	C	A	936	217.371	125.788	-23.236	1.00	46.62	A16S
ATOM	19559	O2*	C	A	936	216.898	124.888	-24.225	1.00	46.62	A16S
ATOM	19560	C3*	C	A	936	218.234	125.178	-22.137	1.00	46.62	A16S
ATOM	19561	O3*	C	A	936	219.134	124.221	-22.657	1.00	46.62	A16S
ATOM	19562	P	A	A	937	220.624	124.669	-23.051	1.00	43.18	A16S
ATOM	19563	O1P	A	A	937	221.157	123.469	-23.742	1.00	57.08	A16S
ATOM	19564	O2P	A	A	937	221.333	125.205	-21.855	1.00	57.08	A16S
ATOM	19565	O5*	A	A	937	220.437	125.845	-24.116	1.00	43.18	A16S
ATOM	19566	C5*	A	A	937	220.129	125.531	-25.491	1.00	43.18	A16S
ATOM	19567	C4*	A	A	937	219.901	126.788	-26.300	1.00	43.18	A16S
ATOM	19568	O4*	A	A	937	218.864	127.564	-25.647	1.00	43.18	A16S
ATOM	19569	C1*	A	A	937	219.154	128.951	-25.748	1.00	43.18	A16S
ATOM	19570	N9	A	A	937	219.593	129.432	-24.431	1.00	57.08	A16S
ATOM	19571	C4	A	A	937	219.675	130.751	-24.049	1.00	57.08	A16S
ATOM	19572	N3	A	A	937	219.358	131.831	-24.781	1.00	57.08	A16S
ATOM	19573	C2	A	A	937	219.589	132.945	-24.096	1.00	57.08	A16S
ATOM	19574	N1	A	A	937	220.053	133.092	-22.858	1.00	57.08	A16S
ATOM	19575	C6	A	A	937	220.363	131.985	-22.148	1.00	57.08	A16S
ATOM	19576	N6	A	A	937	220.827	132.131	-20.909	1.00	57.08	A16S
ATOM	19577	C5	A	A	937	220.176	130.741	-22.761	1.00	57.08	A16S
ATOM	19578	N7	A	A	937	220.407	129.439	-22.326	1.00	57.08	A16S
ATOM	19579	C8	A	A	937	220.039	128.699	-23.344	1.00	57.08	A16S
ATOM	19580	C2*	A	A	937	220.311	129.068	-26.730	1.00	43.18	A16S
ATOM	19581	O2*	A	A	937	219.745	129.111	-28.020	1.00	43.18	A16S
ATOM	19582	C3*	A	A	937	221.059	127.769	-26.452	1.00	43.18	A16S
ATOM	19583	O3*	A	A	937	221.987	127.422	-27.487	1.00	43.18	A16S
ATOM	19584	P	A	A	938	223.583	127.520	-27.201	1.00	55.97	A16S
ATOM	19585	O1P	A	A	938	224.286	127.048	-28.434	1.00	48.06	A16S
ATOM	19586	O2P	A	A	938	223.878	126.870	-25.882	1.00	48.06	A16S
ATOM	19587	O5*	A	A	938	223.872	129.079	-27.048	1.00	55.97	A16S
ATOM	19588	C5*	A	A	938	223.836	129.947	-28.190	1.00	55.97	A16S
ATOM	19589	C4*	A	A	938	224.203	131.346	-27.779	1.00	55.97	A16S
ATOM	19590	O4*	A	A	938	223.236	131.797	-26.800	1.00	55.97	A16S
ATOM	19591	C1*	A	A	938	223.882	132.549	-25.791	1.00	55.97	A16S
ATOM	19592	N9	A	A	938	223.755	131.805	-24.544	1.00	48.06	A16S
ATOM	19593	C4	A	A	938	223.918	132.298	-23.280	1.00	48.06	A16S
ATOM	19594	N3	A	A	938	224.232	133.553	-22.934	1.00	48.06	A16S
ATOM	19595	C2	A	A	938	224.281	133.676	-21.603	1.00	48.06	A16S
ATOM	19596	N1	A	A	938	224.062	132.756	-20.654	1.00	48.06	A16S
ATOM	19597	C6	A	A	938	223.745	131.501	-21.041	1.00	48.06	A16S
ATOM	19598	N6	A	A	938	223.504	130.581	-20.101	1.00	48.06	A16S
ATOM	19599	C5	A	A	938	223.674	131.239	-22.425	1.00	48.06	A16S
ATOM	19600	N7	A	A	938	223.381	130.088	-23.142	1.00	48.06	A16S
ATOM	19601	C8	A	A	938	223.443	130.477	-24.391	1.00	48.06	A16S
ATOM	19602	C2*	A	A	938	225.342	132.705	-26.204	1.00	55.97	A16S
ATOM	19603	O2*	A	A	938	225.489	133.904	-26.937	1.00	55.97	A16S
ATOM	19604	C3*	A	A	938	225.538	131.471	-27.070	1.00	55.97	A16S
ATOM	19605	O3*	A	A	938	226.616	131.615	-27.972	1.00	55.97	A16S
ATOM	19606	P	G	A	939	228.008	130.885	-27.653	1.00	61.38	A16S
ATOM	19607	O1P	G	A	939	228.921	131.472	-28.657	1.00	52.23	A16S
ATOM	19608	O2P	G	A	939	227.810	129.408	-27.596	1.00	52.23	A16S
ATOM	19609	O5*	G	A	939	228.423	131.392	-26.194	1.00	61.38	A16S
ATOM	19610	C5*	G	A	939	228.763	132.773	-25.978	1.00	61.38	A16S
ATOM	19611	C4*	G	A	939	229.052	133.067	-24.509	1.00	61.38	A16S
ATOM	19612	O4*	G	A	939	227.857	132.954	-23.689	1.00	61.38	A16S
ATOM	19613	C1*	G	A	939	228.245	132.749	-22.340	1.00	61.38	A16S
ATOM	19614	N9	G	A	939	227.509	131.624	-21.769	1.00	52.23	A16S
ATOM	19615	C4	G	A	939	227.176	131.484	-20.449	1.00	52.23	A16S
ATOM	19616	N3	G	A	939	227.446	132.371	-19.473	1.00	52.23	A16S
ATOM	19617	C2	G	A	939	227.006	131.966	-18.299	1.00	52.23	A16S
ATOM	19618	N2	G	A	939	227.196	132.743	-17.221	1.00	52.23	A16S
ATOM	19619	N1	G	A	939	226.351	130.774	-18.096	1.00	52.23	A16S
ATOM	19620	C6	G	A	939	226.066	129.841	-19.089	1.00	52.23	A16S
ATOM	19621	O6	G	A	939	225.478	128.791	-18.803	1.00	52.23	A16S
ATOM	19622	C5	G	A	939	226.531	130.273	-20.357	1.00	52.23	A16S
ATOM	19623	N7	G	A	939	226.443	129.666	-21.601	1.00	52.23	A16S
ATOM	19624	C8	G	A	939	227.033	130.504	-22.408	1.00	52.23	A16S
ATOM	19625	C2*	G	A	939	229.764	132.562	-22.295	1.00	61.38	A16S
ATOM	19626	O2*	G	A	939	230.352	133.760	-21.824	1.00	61.38	A16S
ATOM	19627	C3*	G	A	939	230.106	132.264	-23.757	1.00	61.38	A16S
ATOM	19628	O3*	G	A	939	231.417	132.744	-24.039	1.00	61.38	A16S

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ATOM	19629	P	C	A	940	232.695	131.837	-23.690	1.00	46.54	A16S
ATOM	19630	O1P	C	A	940	233.854	132.542	-24.297	1.00	60.86	A16S
ATOM	19631	O2P	C	A	940	232.412	130.426	-24.054	1.00	60.86	A16S
ATOM	19632	O5*	C	A	940	232.839	131.891	-22.104	1.00	46.54	A16S
ATOM	19633	C5*	C	A	940	233.572	132.957	-21.492	1.00	46.54	A16S
ATOM	19634	C4*	C	A	940	233.425	132.923	-19.991	1.00	46.54	A16S
ATOM	19635	O4*	C	A	940	232.021	133.002	-19.629	1.00	46.54	A16S
ATOM	19636	C1*	C	A	940	231.819	132.358	-18.381	1.00	46.54	A16S
ATOM	19637	N1	C	A	940	230.845	131.269	-18.542	1.00	60.86	A16S
ATOM	19638	C6	C	A	940	230.575	130.727	-19.768	1.00	60.86	A16S
ATOM	19639	C2	C	A	940	230.224	130.763	-17.393	1.00	60.86	A16S
ATOM	19640	O2	C	A	940	230.434	131.318	-16.296	1.00	60.86	A16S
ATOM	19641	N3	C	A	940	229.410	129.693	-17.503	1.00	60.86	A16S
ATOM	19642	C4	C	A	940	229.185	129.147	-18.697	1.00	60.86	A16S
ATOM	19643	N4	C	A	940	228.401	128.074	-18.747	1.00	60.86	A16S
ATOM	19644	C5	C	A	940	229.761	129.674	-19.890	1.00	60.86	A16S
ATOM	19645	C2*	C	A	940	233.162	131.782	-17.934	1.00	46.54	A16S
ATOM	19646	O2*	C	A	940	233.768	132.652	-16.999	1.00	46.54	A16S
ATOM	19647	C3*	C	A	940	233.906	131.688	-19.258	1.00	46.54	A16S
ATOM	19648	O3*	C	A	940	235.297	131.655	-19.054	1.00	46.54	A16S
ATOM	19649	P	G	A	941	236.010	130.235	-18.824	1.00	38.86	A16S
ATOM	19650	O1P	G	A	941	237.485	130.448	-18.713	1.00	61.26	A16S
ATOM	19651	O2P	G	A	941	235.475	129.283	-19.844	1.00	61.26	A16S
ATOM	19652	O5*	G	A	941	235.483	129.786	-17.394	1.00	38.86	A16S
ATOM	19653	C5*	G	A	941	235.946	130.458	-16.225	1.00	38.86	A16S
ATOM	19654	C4*	G	A	941	235.231	129.946	-15.011	1.00	38.86	A16S
ATOM	19655	O4*	G	A	941	233.812	130.190	-15.157	1.00	38.86	A16S
ATOM	19656	C1*	G	A	941	233.099	129.180	-14.477	1.00	38.86	A16S
ATOM	19657	N9	G	A	941	232.276	128.446	-15.427	1.00	61.26	A16S
ATOM	19658	C4	G	A	941	231.261	127.599	-15.085	1.00	61.26	A16S
ATOM	19659	N3	G	A	941	230.834	127.357	-13.832	1.00	61.26	A16S
ATOM	19660	C2	G	A	941	229.861	126.479	-13.806	1.00	61.26	A16S
ATOM	19661	N2	G	A	941	229.303	126.151	-12.647	1.00	61.26	A16S
ATOM	19662	N1	G	A	941	229.355	125.866	-14.916	1.00	61.26	A16S
ATOM	19663	C6	G	A	941	229.773	126.098	-16.221	1.00	61.26	A16S
ATOM	19664	O6	G	A	941	229.238	125.487	-17.156	1.00	61.26	A16S
ATOM	19665	C5	G	A	941	230.815	127.061	-16.267	1.00	61.26	A16S
ATOM	19666	N7	G	A	941	231.519	127.588	-17.345	1.00	61.26	A16S
ATOM	19667	C8	G	A	941	232.371	128.412	-16.799	1.00	61.26	A16S
ATOM	19668	C2*	G	A	941	234.118	128.225	-13.862	1.00	38.86	A16S
ATOM	19669	O2*	G	A	941	234.419	128.618	-12.542	1.00	38.86	A16S
ATOM	19670	C3*	G	A	941	235.322	128.456	-14.746	1.00	38.86	A16S
ATOM	19671	O3*	G	A	941	236.491	128.093	-14.041	1.00	38.86	A16S
ATOM	19672	P	G	A	942	237.077	126.600	-14.200	1.00	44.54	A16S
ATOM	19673	O1P	G	A	942	238.298	126.546	-13.331	1.00	57.96	A16S
ATOM	19674	O2P	G	A	942	237.184	126.313	-15.661	1.00	57.96	A16S
ATOM	19675	O5*	G	A	942	235.962	125.633	-13.576	1.00	44.54	A16S
ATOM	19676	C5*	G	A	942	235.790	125.569	-12.141	1.00	44.54	A16S
ATOM	19677	C4*	G	A	942	234.533	124.801	-11.738	1.00	44.54	A16S
ATOM	19678	O4*	G	A	942	233.385	125.121	-12.573	1.00	44.54	A16S
ATOM	19679	C1*	G	A	942	232.371	124.176	-12.316	1.00	44.54	A16S
ATOM	19680	N9	G	A	942	231.772	123.703	-13.559	1.00	57.96	A16S
ATOM	19681	C4	G	A	942	230.807	122.718	-13.650	1.00	57.96	A16S
ATOM	19682	N3	G	A	942	230.199	122.098	-12.609	1.00	57.96	A16S
ATOM	19683	C2	G	A	942	229.355	121.154	-13.007	1.00	57.96	A16S
ATOM	19684	N2	G	A	942	228.652	120.459	-12.097	1.00	57.96	A16S
ATOM	19685	N1	G	A	942	229.137	120.825	-14.322	1.00	57.96	A16S
ATOM	19686	C6	G	A	942	229.748	121.439	-15.414	1.00	57.96	A16S
ATOM	19687	O6	G	A	942	229.491	121.042	-16.565	1.00	57.96	A16S
ATOM	19688	C5	G	A	942	230.645	122.489	-14.997	1.00	57.96	A16S
ATOM	19689	N7	G	A	942	231.436	123.360	-15.741	1.00	57.96	A16S
ATOM	19690	C8	G	A	942	232.075	124.069	-14.845	1.00	57.96	A16S
ATOM	19691	C2*	G	A	942	233.029	123.010	-11.579	1.00	44.54	A16S
ATOM	19692	O2*	G	A	942	232.647	123.128	-10.232	1.00	44.54	A16S
ATOM	19693	C3*	G	A	942	234.518	123.285	-11.759	1.00	44.54	A16S
ATOM	19694	O3*	G	A	942	235.215	122.721	-10.650	1.00	44.54	A16S
ATOM	19695	P	U	A	943	235.565	121.141	-10.643	1.00	40.09	A16S
ATOM	19696	O1P	U	A	943	236.373	120.763	-9.426	1.00	47.71	A16S
ATOM	19697	O2P	U	A	943	236.090	120.805	-12.012	1.00	47.71	A16S
ATOM	19698	O5*	U	A	943	234.157	120.431	-10.421	1.00	40.09	A16S
ATOM	19699	C5*	U	A	943	233.566	120.414	-9.121	1.00	40.09	A16S
ATOM	19700	C4*	U	A	943	232.363	119.510	-9.093	1.00	40.09	A16S
ATOM	19701	O4*	U	A	943	231.376	119.965	-10.051	1.00	40.09	A16S
ATOM	19702	C1*	U	A	943	230.711	118.848	-10.605	1.00	40.09	A16S
ATOM	19703	N1	U	A	943	231.025	118.796	-12.039	1.00	47.71	A16S
ATOM	19704	C6	U	A	943	231.869	119.694	-12.619	1.00	47.71	A16S
ATOM	19705	C2	U	A	943	230.442	117.796	-12.782	1.00	47.71	A16S

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ATOM	19706	O2	U	A	943	229.687	116.972	-12.300	1.00	47.71	A16S
ATOM	19707	N3	U	A	943	230.775	117.788	-14.106	1.00	47.71	A16S
ATOM	19708	C4	U	A	943	231.603	118.661	-14.748	1.00	47.71	A16S
ATOM	19709	O4	U	A	943	231.768	118.556	-15.961	1.00	47.71	A16S
ATOM	19710	C5	U	A	943	232.168	119.663	-13.912	1.00	47.71	A16S
ATOM	19711	C2*	U	A	943	231.241	117.601	-9.896	1.00	40.09	A16S
ATOM	19712	O2*	U	A	943	230.428	117.299	-8.786	1.00	40.09	A16S
ATOM	19713	C3*	U	A	943	232.613	118.064	-9.458	1.00	40.09	A16S
ATOM	19714	O3*	U	A	943	233.064	117.309	-8.361	1.00	40.09	A16S
ATOM	19715	P	G	A	944	234.056	116.077	-8.624	1.00	45.81	A16S
ATOM	19716	O1P	G	A	944	234.293	115.357	-7.327	1.00	47.83	A16S
ATOM	19717	O2P	G	A	944	235.222	116.608	-9.405	1.00	47.83	A16S
ATOM	19718	O5*	G	A	944	233.222	115.140	-9.605	1.00	45.81	A16S
ATOM	19719	C5*	G	A	944	232.040	114.469	-9.165	1.00	45.81	A16S
ATOM	19720	C4*	G	A	944	231.611	113.467	-10.198	1.00	45.81	A16S
ATOM	19721	O4*	G	A	944	231.037	114.146	-11.339	1.00	45.81	A16S
ATOM	19722	C1*	G	A	944	231.427	113.495	-12.528	1.00	45.81	A16S
ATOM	19723	N9	G	A	944	232.224	114.451	-13.279	1.00	47.83	A16S
ATOM	19724	C4	G	A	944	232.428	114.490	-14.635	1.00	47.83	A16S
ATOM	19725	N3	G	A	944	231.937	113.623	-15.543	1.00	47.83	A16S
ATOM	19726	C2	G	A	944	232.291	113.951	-16.775	1.00	47.83	A16S
ATOM	19727	N2	G	A	944	231.887	113.209	-17.809	1.00	47.83	A16S
ATOM	19728	N1	G	A	944	233.066	115.033	-17.083	1.00	47.83	A16S
ATOM	19729	C6	G	A	944	233.584	115.930	-16.158	1.00	47.83	A16S
ATOM	19730	O6	G	A	944	234.278	116.878	-16.534	1.00	47.83	A16S
ATOM	19731	C5	G	A	944	233.212	115.599	-14.849	1.00	47.83	A16S
ATOM	19732	N7	G	A	944	233.508	116.232	-13.655	1.00	47.83	A16S
ATOM	19733	C8	G	A	944	232.908	115.513	-12.754	1.00	47.83	A16S
ATOM	19734	C2*	G	A	944	232.202	112.240	-12.127	1.00	45.81	A16S
ATOM	19735	O2*	G	A	944	231.279	111.177	-12.018	1.00	45.81	A16S
ATOM	19736	C3*	G	A	944	232.740	112.629	-10.759	1.00	45.81	A16S
ATOM	19737	O3*	G	A	944	232.949	111.503	-9.925	1.00	45.81	A16S
ATOM	19738	P	G	A	945	234.329	111.353	-9.116	1.00	49.80	A16S
ATOM	19739	O1P	G	A	945	234.077	110.468	-7.921	1.00	55.09	A16S
ATOM	19740	O2P	G	A	945	234.913	112.713	-8.923	1.00	55.09	A16S
ATOM	19741	O5*	G	A	945	235.264	110.529	-10.110	1.00	49.80	A16S
ATOM	19742	C5*	G	A	945	235.439	110.948	-11.468	1.00	49.80	A16S
ATOM	19743	C4*	G	A	945	236.716	110.382	-12.047	1.00	49.80	A16S
ATOM	19744	O4*	G	A	945	237.028	111.237	-13.178	1.00	49.80	A16S
ATOM	19745	C1*	G	A	945	238.341	111.731	-13.064	1.00	49.80	A16S
ATOM	19746	N9	G	A	945	238.237	113.154	-12.752	1.00	55.09	A16S
ATOM	19747	C4	G	A	945	239.228	113.974	-12.268	1.00	55.09	A16S
ATOM	19748	N3	G	A	945	240.494	113.606	-11.990	1.00	55.09	A16S
ATOM	19749	C2	G	A	945	241.205	114.612	-11.532	1.00	55.09	A16S
ATOM	19750	N2	G	A	945	242.480	114.415	-11.190	1.00	55.09	A16S
ATOM	19751	N1	G	A	945	240.717	115.886	-11.371	1.00	55.09	A16S
ATOM	19752	C6	G	A	945	239.419	116.287	-11.665	1.00	55.09	A16S
ATOM	19753	O6	G	A	945	239.083	117.463	-11.510	1.00	55.09	A16S
ATOM	19754	C5	G	A	945	238.643	115.215	-12.137	1.00	55.09	A16S
ATOM	19755	N7	G	A	945	237.314	115.179	-12.526	1.00	55.09	A16S
ATOM	19756	C8	G	A	945	237.118	113.940	-12.885	1.00	55.09	A16S
ATOM	19757	C2*	G	A	945	239.062	110.870	-12.021	1.00	49.80	A16S
ATOM	19758	O2*	G	A	945	239.656	109.760	-12.649	1.00	49.80	A16S
ATOM	19759	C3*	G	A	945	237.922	110.446	-11.112	1.00	49.80	A16S
ATOM	19760	O3*	G	A	945	238.198	109.153	-10.561	1.00	49.80	A16S
ATOM	19761	P	A	A	946	238.735	109.020	-9.044	1.00	42.65	A16S
ATOM	19762	O1P	A	A	946	239.205	107.618	-8.817	1.00	47.92	A16S
ATOM	19763	O2P	A	A	946	237.688	109.595	-8.141	1.00	47.92	A16S
ATOM	19764	O5*	A	A	946	239.999	109.994	-8.995	1.00	42.65	A16S
ATOM	19765	C5*	A	A	946	241.268	109.581	-9.508	1.00	42.65	A16S
ATOM	19766	C4*	A	A	946	242.358	110.488	-9.000	1.00	42.65	A16S
ATOM	19767	O4*	A	A	946	242.165	111.830	-9.507	1.00	42.65	A16S
ATOM	19768	C1*	A	A	946	242.672	112.763	-8.566	1.00	42.65	A16S
ATOM	19769	N9	A	A	946	241.653	113.781	-8.286	1.00	47.92	A16S
ATOM	19770	C4	A	A	946	241.838	114.965	-7.609	1.00	47.92	A16S
ATOM	19771	N3	A	A	946	242.956	115.403	-7.014	1.00	47.92	A16S
ATOM	19772	C2	A	A	946	242.767	116.612	-6.476	1.00	47.92	A16S
ATOM	19773	N1	A	A	946	241.673	117.376	-6.478	1.00	47.92	A16S
ATOM	19774	C6	A	A	946	240.564	116.905	-7.090	1.00	47.92	A16S
ATOM	19775	N6	A	A	946	239.468	117.663	-7.108	1.00	47.92	A16S
ATOM	19776	C5	A	A	946	240.630	115.633	-7.681	1.00	47.92	A16S
ATOM	19777	N7	A	A	946	239.686	114.871	-8.351	1.00	47.92	A16S
ATOM	19778	C8	A	A	946	240.337	113.781	-8.679	1.00	47.92	A16S
ATOM	19779	C2*	A	A	946	243.186	111.985	-7.357	1.00	42.65	A16S
ATOM	19780	O2*	A	A	946	244.576	111.837	-7.526	1.00	42.65	A16S
ATOM	19781	C3*	A	A	946	242.456	110.656	-7.494	1.00	42.65	A16S
ATOM	19782	O3*	A	A	946	243.208	109.595	-6.914	1.00	42.65	A16S

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ATOM	19783	P	G	A	947	242.715	108.927	-5.534	1.00	48.58	A16S
ATOM	19784	O1P	G	A	947	243.448	107.635	-5.341	1.00	54.10	A16S
ATOM	19785	O2P	G	A	947	241.215	108.923	-5.557	1.00	54.10	A16S
ATOM	19786	O5*	G	A	947	243.233	109.940	-4.413	1.00	48.58	A16S
ATOM	19787	C5*	G	A	947	244.638	110.007	-4.094	1.00	48.58	A16S
ATOM	19788	C4*	G	A	947	244.948	111.233	-3.275	1.00	48.58	A16S
ATOM	19789	O4*	G	A	947	244.692	112.441	-4.036	1.00	48.58	A16S
ATOM	19790	C1*	G	A	947	244.182	113.444	-3.178	1.00	48.58	A16S
ATOM	19791	N9	G	A	947	242.833	113.771	-3.622	1.00	54.10	A16S
ATOM	19792	C4	G	A	947	242.167	114.962	-3.433	1.00	54.10	A16S
ATOM	19793	N3	G	A	947	242.629	116.037	-2.760	1.00	54.10	A16S
ATOM	19794	C2	G	A	947	241.775	117.049	-2.803	1.00	54.10	A16S
ATOM	19795	N2	G	A	947	242.075	118.203	-2.200	1.00	54.10	A16S
ATOM	19796	N1	G	A	947	240.565	117.006	-3.443	1.00	54.10	A16S
ATOM	19797	C6	G	A	947	240.063	115.910	-4.130	1.00	54.10	A16S
ATOM	19798	O6	G	A	947	238.956	115.979	-4.678	1.00	54.10	A16S
ATOM	19799	C5	G	A	947	240.966	114.817	-4.097	1.00	54.10	A16S
ATOM	19800	N7	G	A	947	240.860	113.548	-4.651	1.00	54.10	A16S
ATOM	19801	C8	G	A	947	241.983	112.962	-4.336	1.00	54.10	A16S
ATOM	19802	C2*	G	A	947	244.199	112.885	-1.758	1.00	48.58	A16S
ATOM	19803	O2*	G	A	947	245.414	113.277	-1.139	1.00	48.58	A16S
ATOM	19804	C3*	G	A	947	244.121	111.388	-2.019	1.00	48.58	A16S
ATOM	19805	O3*	G	A	947	244.666	110.617	-0.966	1.00	48.58	A16S
ATOM	19806	P	C	A	948	243.682	109.955	0.112	1.00	51.55	A16S
ATOM	19807	O1P	C	A	948	244.528	109.162	1.055	1.00	61.78	A16S
ATOM	19808	O2P	C	A	948	242.579	109.273	-0.644	1.00	61.78	A16S
ATOM	19809	O5*	C	A	948	243.089	111.219	0.890	1.00	51.55	A16S
ATOM	19810	C5*	C	A	948	243.919	111.967	1.797	1.00	51.55	A16S
ATOM	19811	C4*	C	A	948	243.342	113.343	2.066	1.00	51.55	A16S
ATOM	19812	O4*	C	A	948	243.083	114.019	0.811	1.00	51.55	A16S
ATOM	19813	C1*	C	A	948	241.988	114.902	0.964	1.00	51.55	A16S
ATOM	19814	N1	C	A	948	240.928	114.531	0.011	1.00	61.78	A16S
ATOM	19815	C6	C	A	948	240.881	113.286	-0.551	1.00	61.78	A16S
ATOM	19816	C2	C	A	948	239.948	115.476	-0.292	1.00	61.78	A16S
ATOM	19817	O2	C	A	948	240.025	116.608	0.215	1.00	61.78	A16S
ATOM	19818	N3	C	A	948	238.939	115.138	-1.122	1.00	61.78	A16S
ATOM	19819	C4	C	A	948	238.887	113.913	-1.645	1.00	61.78	A16S
ATOM	19820	N4	C	A	948	237.856	113.617	-2.440	1.00	61.78	A16S
ATOM	19821	C5	C	A	948	239.886	112.936	-1.374	1.00	61.78	A16S
ATOM	19822	C2*	C	A	948	241.495	114.794	2.407	1.00	51.55	A16S
ATOM	19823	O2*	C	A	948	242.029	115.849	3.176	1.00	51.55	A16S
ATOM	19824	C3*	C	A	948	242.025	113.429	2.818	1.00	51.55	A16S
ATOM	19825	O3*	C	A	948	242.194	113.369	4.227	1.00	51.55	A16S
ATOM	19826	P	A	A	949	240.943	112.951	5.154	1.00	47.26	A16S
ATOM	19827	O1P	A	A	949	241.451	112.775	6.550	1.00	73.07	A16S
ATOM	19828	O2P	A	A	949	240.238	111.810	4.487	1.00	73.07	A16S
ATOM	19829	O5*	A	A	949	240.006	114.250	5.128	1.00	47.26	A16S
ATOM	19830	C5*	A	A	949	240.467	115.489	5.703	1.00	47.26	A16S
ATOM	19831	C4*	A	A	949	239.354	116.515	5.770	1.00	47.26	A16S
ATOM	19832	O4*	A	A	949	239.060	117.044	4.446	1.00	47.26	A16S
ATOM	19833	C1*	A	A	949	237.665	117.275	4.328	1.00	47.26	A16S
ATOM	19834	N9	A	A	949	237.141	116.295	3.374	1.00	73.07	A16S
ATOM	19835	C4	A	A	949	236.017	116.392	2.592	1.00	73.07	A16S
ATOM	19836	N3	A	A	949	235.141	117.406	2.542	1.00	73.07	A16S
ATOM	19837	C2	A	A	949	234.194	117.156	1.647	1.00	73.07	A16S
ATOM	19838	N1	A	A	949	234.040	116.091	0.850	1.00	73.07	A16S
ATOM	19839	C6	A	A	949	234.943	115.090	0.929	1.00	73.07	A16S
ATOM	19840	N6	A	A	949	234.805	114.026	0.131	1.00	73.07	A16S
ATOM	19841	C5	A	A	949	235.981	115.228	1.843	1.00	73.07	A16S
ATOM	19842	N7	A	A	949	237.040	114.398	2.166	1.00	73.07	A16S
ATOM	19843	C8	A	A	949	237.696	115.071	3.075	1.00	73.07	A16S
ATOM	19844	C2*	A	A	949	237.057	117.066	5.717	1.00	47.26	A16S
ATOM	19845	O2*	A	A	949	237.056	118.291	6.425	1.00	47.26	A16S
ATOM	19846	C3*	A	A	949	238.018	116.054	6.325	1.00	47.26	A16S
ATOM	19847	O3*	A	A	949	237.967	116.063	7.745	1.00	47.26	A16S
ATOM	19848	P	U	A	950	237.051	114.982	8.508	1.00	58.07	A16S
ATOM	19849	O1P	U	A	950	237.107	115.243	9.971	1.00	57.43	A16S
ATOM	19850	O2P	U	A	950	237.444	113.652	7.991	1.00	57.43	A16S
ATOM	19851	O5*	U	A	950	235.569	115.291	7.994	1.00	58.07	A16S
ATOM	19852	C5*	U	A	950	234.935	116.562	8.287	1.00	58.07	A16S
ATOM	19853	C4*	U	A	950	233.639	116.736	7.503	1.00	58.07	A16S
ATOM	19854	O4*	U	A	950	233.910	116.803	6.076	1.00	58.07	A16S
ATOM	19855	C1*	U	A	950	232.815	116.259	5.354	1.00	58.07	A16S
ATOM	19856	N1	U	A	950	233.258	115.046	4.642	1.00	57.43	A16S
ATOM	19857	C6	U	A	950	234.281	114.256	5.120	1.00	57.43	A16S
ATOM	19858	C2	U	A	950	232.601	114.709	3.467	1.00	57.43	A16S
ATOM	19859	O2	U	A	950	231.682	115.366	3.005	1.00	57.43	A16S

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ATOM	19860	N3	U	A	950	233.055	113.570	2.851	1.00	57.43	A16S
ATOM	19861	C4	U	A	950	234.071	112.746	3.270	1.00	57.43	A16S
ATOM	19862	O4	U	A	950	234.394	111.783	2.572	1.00	57.43	A16S
ATOM	19863	C5	U	A	950	234.695	113.148	4.491	1.00	57.43	A16S
ATOM	19864	C2*	U	A	950	231.732	115.927	6.372	1.00	58.07	A16S
ATOM	19865	O2*	U	A	950	230.907	117.068	6.512	1.00	58.07	A16S
ATOM	19866	C3*	U	A	950	232.567	115.663	7.614	1.00	58.07	A16S
ATOM	19867	O3*	U	A	950	231.787	115.753	8.790	1.00	58.07	A16S
ATOM	19868	P	G	A	951	231.174	114.407	9.425	1.00	53.79	A16S
ATOM	19869	O1P	G	A	951	230.754	114.719	10.817	1.00	63.27	A16S
ATOM	19870	O2P	G	A	951	232.128	113.281	9.182	1.00	63.27	A16S
ATOM	19871	O5*	G	A	951	229.854	114.175	8.563	1.00	53.79	A16S
ATOM	19872	C5*	G	A	951	228.730	115.064	8.708	1.00	53.79	A16S
ATOM	19873	C4*	G	A	951	227.639	114.714	7.721	1.00	53.79	A16S
ATOM	19874	O4*	G	A	951	228.067	115.050	6.374	1.00	53.79	A16S
ATOM	19875	C1*	G	A	951	227.553	114.097	5.465	1.00	53.79	A16S
ATOM	19876	N9	G	A	951	228.665	113.311	4.936	1.00	63.27	A16S
ATOM	19877	C4	G	A	951	228.649	112.576	3.774	1.00	63.27	A16S
ATOM	19878	N3	G	A	951	227.621	112.493	2.908	1.00	63.27	A16S
ATOM	19879	C2	G	A	951	227.879	111.682	1.917	1.00	63.27	A16S
ATOM	19880	N2	G	A	951	226.955	111.472	0.994	1.00	63.27	A16S
ATOM	19881	N1	G	A	951	229.058	111.014	1.764	1.00	63.27	A16S
ATOM	19882	C6	G	A	951	230.137	111.088	2.633	1.00	63.27	A16S
ATOM	19883	O6	G	A	951	231.160	110.441	2.397	1.00	63.27	A16S
ATOM	19884	C5	G	A	951	229.869	111.948	3.720	1.00	63.27	A16S
ATOM	19885	N7	G	A	951	230.652	112.293	4.813	1.00	63.27	A16S
ATOM	19886	C8	G	A	951	229.902	113.111	5.501	1.00	63.27	A16S
ATOM	19887	C2*	G	A	951	226.627	113.171	6.255	1.00	53.79	A16S
ATOM	19888	O2*	G	A	951	225.304	113.674	6.267	1.00	53.79	A16S
ATOM	19889	C3*	G	A	951	227.236	113.249	7.638	1.00	53.79	A16S
ATOM	19890	O3*	G	A	951	226.287	112.856	8.604	1.00	53.79	A16S
ATOM	19891	P	U	A	952	226.069	111.293	8.895	1.00	44.62	A16S
ATOM	19892	O1P	U	A	952	224.968	111.187	9.899	1.00	61.30	A16S
ATOM	19893	O2P	U	A	952	227.385	110.654	9.183	1.00	61.30	A16S
ATOM	19894	O5*	U	A	952	225.534	110.723	7.505	1.00	44.62	A16S
ATOM	19895	C5*	U	A	952	224.188	110.995	7.072	1.00	44.62	A16S
ATOM	19896	C4*	U	A	952	223.859	110.232	5.805	1.00	44.62	A16S
ATOM	19897	O4*	U	A	952	224.765	110.642	4.749	1.00	44.62	A16S
ATOM	19898	C1*	U	A	952	224.970	109.557	3.859	1.00	44.62	A16S
ATOM	19899	N1	U	A	952	226.401	109.210	3.821	1.00	61.30	A16S
ATOM	19900	C6	U	A	952	227.261	109.534	4.835	1.00	61.30	A16S
ATOM	19901	C2	U	A	952	226.844	108.507	2.722	1.00	61.30	A16S
ATOM	19902	O2	U	A	952	226.122	108.245	1.773	1.00	61.30	A16S
ATOM	19903	N3	U	A	952	228.160	108.128	2.763	1.00	61.30	A16S
ATOM	19904	C4	U	A	952	229.063	108.394	3.755	1.00	61.30	A16S
ATOM	19905	O4	U	A	952	230.214	107.970	3.654	1.00	61.30	A16S
ATOM	19906	C5	U	A	952	228.543	109.161	4.839	1.00	61.30	A16S
ATOM	19907	C2*	U	A	952	224.127	108.379	4.354	1.00	44.62	A16S
ATOM	19908	O2*	U	A	952	222.888	108.351	3.665	1.00	44.62	A16S
ATOM	19909	C3*	U	A	952	223.964	108.712	5.828	1.00	44.62	A16S
ATOM	19910	O3*	U	A	952	222.808	108.073	6.344	1.00	44.62	A16S
ATOM	19911	P	G	A	953	222.850	106.492	6.664	1.00	55.93	A16S
ATOM	19912	O1P	G	A	953	221.574	106.100	7.314	1.00	60.02	A16S
ATOM	19913	O2P	G	A	953	224.139	106.140	7.312	1.00	60.02	A16S
ATOM	19914	O5*	G	A	953	222.877	105.803	5.233	1.00	55.93	A16S
ATOM	19915	C5*	G	A	953	221.718	105.792	4.386	1.00	55.93	A16S
ATOM	19916	C4*	G	A	953	221.982	104.916	3.194	1.00	55.93	A16S
ATOM	19917	O4*	G	A	953	223.124	105.454	2.473	1.00	55.93	A16S
ATOM	19918	C1*	G	A	953	223.921	104.390	1.984	1.00	55.93	A16S
ATOM	19919	N9	G	A	953	225.250	104.477	2.590	1.00	60.02	A16S
ATOM	19920	C4	G	A	953	226.378	103.796	2.179	1.00	60.02	A16S
ATOM	19921	N3	G	A	953	226.464	102.973	1.113	1.00	60.02	A16S
ATOM	19922	C2	G	A	953	227.676	102.461	0.984	1.00	60.02	A16S
ATOM	19923	N2	G	A	953	227.954	101.649	-0.050	1.00	60.02	A16S
ATOM	19924	N1	G	A	953	228.709	102.710	1.848	1.00	60.02	A16S
ATOM	19925	C6	G	A	953	228.642	103.541	2.955	1.00	60.02	A16S
ATOM	19926	O6	G	A	953	229.630	103.675	3.676	1.00	60.02	A16S
ATOM	19927	C5	G	A	953	227.358	104.129	3.090	1.00	60.02	A16S
ATOM	19928	N7	G	A	953	226.873	105.030	4.029	1.00	60.02	A16S
ATOM	19929	C8	G	A	953	225.624	105.211	3.692	1.00	60.02	A16S
ATOM	19930	C2*	G	A	953	223.211	103.080	2.333	1.00	55.93	A16S
ATOM	19931	O2*	G	A	953	222.406	102.659	1.247	1.00	55.93	A16S
ATOM	19932	C3*	G	A	953	222.382	103.489	3.540	1.00	55.93	A16S
ATOM	19933	O3*	G	A	953	221.257	102.639	3.717	1.00	55.93	A16S
ATOM	19934	P	G	A	954	221.331	101.427	4.776	1.00	68.20	A16S
ATOM	19935	O1P	G	A	954	220.072	100.635	4.641	1.00	77.66	A16S
ATOM	19936	O2P	G	A	954	221.706	101.994	6.100	1.00	77.66	A16S

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ATOM	19937	O5*	G	A	954	222.550	100.533	4.267	1.00	68.20	A16S
ATOM	19938	C5*	G	A	954	222.503	99.889	2.978	1.00	68.20	A16S
ATOM	19939	C4*	G	A	954	223.848	99.297	2.622	1.00	68.20	A16S
ATOM	19940	O4*	G	A	954	224.817	100.357	2.430	1.00	68.20	A16S
ATOM	19941	C1*	G	A	954	226.091	99.923	2.871	1.00	68.20	A16S
ATOM	19942	N9	G	A	954	226.524	100.782	3.971	1.00	77.66	A16S
ATOM	19943	C4	G	A	954	227.787	100.825	4.503	1.00	77.66	A16S
ATOM	19944	N3	G	A	954	228.840	100.098	4.088	1.00	77.66	A16S
ATOM	19945	C2	G	A	954	229.914	100.342	4.804	1.00	77.66	A16S
ATOM	19946	N2	G	A	954	231.044	99.705	4.520	1.00	77.66	A16S
ATOM	19947	N1	G	A	954	229.958	101.227	5.849	1.00	77.66	A16S
ATOM	19948	C6	G	A	954	228.884	101.985	6.299	1.00	77.66	A16S
ATOM	19949	O6	G	A	954	229.024	102.746	7.263	1.00	77.66	A16S
ATOM	19950	C5	G	A	954	227.721	101.738	5.534	1.00	77.66	A16S
ATOM	19951	N7	G	A	954	226.444	102.271	5.640	1.00	77.66	A16S
ATOM	19952	C8	G	A	954	225.769	101.679	4.692	1.00	77.66	A16S
ATOM	19953	C2*	G	A	954	225.956	98.466	3.316	1.00	68.20	A16S
ATOM	19954	O2*	G	A	954	226.315	97.614	2.245	1.00	68.20	A16S
ATOM	19955	C3*	G	A	954	224.478	98.388	3.663	1.00	68.20	A16S
ATOM	19956	O3*	G	A	954	223.985	97.066	3.573	1.00	68.20	A16S
ATOM	19957	P	U	A	955	223.849	96.182	4.907	1.00	57.11	A16S
ATOM	19958	O1P	U	A	955	223.063	94.967	4.556	1.00	73.32	A16S
ATOM	19959	O2P	U	A	955	223.379	97.072	6.002	1.00	73.32	A16S
ATOM	19960	O5*	U	A	955	225.348	95.758	5.252	1.00	57.11	A16S
ATOM	19961	C5*	U	A	955	226.160	95.019	4.316	1.00	57.11	A16S
ATOM	19962	C4*	U	A	955	227.619	95.091	4.717	1.00	57.11	A16S
ATOM	19963	O4*	U	A	955	228.081	96.465	4.638	1.00	57.11	A16S
ATOM	19964	C1*	U	A	955	228.989	96.732	5.694	1.00	57.11	A16S
ATOM	19965	N1	U	A	955	228.409	97.775	6.557	1.00	73.32	A16S
ATOM	19966	C6	U	A	955	227.130	98.244	6.360	1.00	73.32	A16S
ATOM	19967	C2	U	A	955	229.194	98.270	7.587	1.00	73.32	A16S
ATOM	19968	O2	U	A	955	230.332	97.882	7.801	1.00	73.32	A16S
ATOM	19969	N3	U	A	955	228.597	99.236	8.360	1.00	73.32	A16S
ATOM	19970	C4	U	A	955	227.326	99.746	8.213	1.00	73.32	A16S
ATOM	19971	O4	U	A	955	226.942	100.637	8.970	1.00	73.32	A16S
ATOM	19972	C5	U	A	955	226.578	99.183	7.131	1.00	73.32	A16S
ATOM	19973	C2*	U	A	955	229.203	95.426	6.453	1.00	57.11	A16S
ATOM	19974	O2*	U	A	955	230.303	94.733	5.921	1.00	57.11	A16S
ATOM	19975	C3*	U	A	955	227.918	94.684	6.150	1.00	57.11	A16S
ATOM	19976	O3*	U	A	955	228.107	93.293	6.296	1.00	57.11	A16S
ATOM	19977	P	U	A	956	227.951	92.635	7.752	1.00	60.35	A16S
ATOM	19978	O1P	U	A	956	228.263	91.170	7.631	1.00	63.57	A16S
ATOM	19979	O2P	U	A	956	226.623	93.064	8.281	1.00	63.57	A16S
ATOM	19980	O5*	U	A	956	229.094	93.343	8.614	1.00	60.35	A16S
ATOM	19981	C5*	U	A	956	230.467	92.974	8.444	1.00	60.35	A16S
ATOM	19982	C4*	U	A	956	231.343	93.700	9.435	1.00	60.35	A16S
ATOM	19983	O4*	U	A	956	231.214	95.129	9.243	1.00	60.35	A16S
ATOM	19984	C1*	U	A	956	231.382	95.792	10.483	1.00	60.35	A16S
ATOM	19985	N1	U	A	956	230.152	96.535	10.788	1.00	63.57	A16S
ATOM	19986	C6	U	A	956	228.942	96.140	10.278	1.00	63.57	A16S
ATOM	19987	C2	U	A	956	230.252	97.652	11.602	1.00	63.57	A16S
ATOM	19988	O2	U	A	956	231.302	98.031	12.096	1.00	63.57	A16S
ATOM	19989	N3	U	A	956	229.070	98.310	11.821	1.00	63.57	A16S
ATOM	19990	C4	U	A	956	227.830	97.970	11.331	1.00	63.57	A16S
ATOM	19991	O4	U	A	956	226.859	98.673	11.603	1.00	63.57	A16S
ATOM	19992	C5	U	A	956	227.811	96.799	10.515	1.00	63.57	A16S
ATOM	19993	C2*	U	A	956	231.684	94.731	11.535	1.00	60.35	A16S
ATOM	19994	O2*	U	A	956	233.090	94.616	11.653	1.00	60.35	A16S
ATOM	19995	C3*	U	A	956	231.049	93.499	10.910	1.00	60.35	A16S
ATOM	19996	O3*	U	A	956	231.621	92.306	11.414	1.00	60.35	A16S
ATOM	19997	P	U	A	957	230.935	91.571	12.667	1.00	65.22	A16S
ATOM	19998	O1P	U	A	957	231.757	90.374	12.991	1.00	71.08	A16S
ATOM	19999	O2P	U	A	957	229.489	91.411	12.366	1.00	71.08	A16S
ATOM	20000	O5*	U	A	957	231.132	92.603	13.860	1.00	65.22	A16S
ATOM	20001	C5*	U	A	957	232.454	92.929	14.303	1.00	65.22	A16S
ATOM	20002	C4*	U	A	957	232.429	94.106	15.244	1.00	65.22	A16S
ATOM	20003	O4*	U	A	957	231.840	95.262	14.587	1.00	65.22	A16S
ATOM	20004	C1*	U	A	957	231.143	96.042	15.540	1.00	65.22	A16S
ATOM	20005	N1	U	A	957	229.733	96.135	15.131	1.00	71.08	A16S
ATOM	20006	C6	U	A	957	229.127	95.136	14.405	1.00	71.08	A16S
ATOM	20007	C2	U	A	957	229.023	97.258	15.520	1.00	71.08	A16S
ATOM	20008	O2	U	A	957	229.526	98.184	16.125	1.00	71.08	A16S
ATOM	20009	N3	U	A	957	227.698	97.261	15.167	1.00	71.08	A16S
ATOM	20010	C4	U	A	957	227.025	96.289	14.464	1.00	71.08	A16S
ATOM	20011	O4	U	A	957	225.814	96.417	14.265	1.00	71.08	A16S
ATOM	20012	C5	U	A	957	227.834	95.174	14.066	1.00	71.08	A16S
ATOM	20013	C2*	U	A	957	231.311	95.372	16.910	1.00	65.22	A16S

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ATOM	20014	O2*	U	A	957	232.372	96.007	17.605	1.00	65.22	A16S
ATOM	20015	C3*	U	A	957	231.625	93.927	16.520	1.00	65.22	A16S
ATOM	20016	O3*	U	A	957	232.399	93.240	17.506	1.00	65.22	A16S
ATOM	20017	P	A	A	958	231.697	92.163	18.473	1.00	82.89	A16S
ATOM	20018	O1P	A	A	958	232.706	91.784	19.500	1.00	91.84	A16S
ATOM	20019	O2P	A	A	958	231.062	91.104	17.637	1.00	91.84	A16S
ATOM	20020	O5*	A	A	958	230.559	93.009	19.200	1.00	82.89	A16S
ATOM	20021	C5*	A	A	958	229.629	92.389	20.113	1.00	82.89	A16S
ATOM	20022	C4*	A	A	958	229.197	93.383	21.168	1.00	82.89	A16S
ATOM	20023	O4*	A	A	958	230.288	93.615	22.087	1.00	82.89	A16S
ATOM	20024	C1*	A	A	958	230.279	94.964	22.502	1.00	82.89	A16S
ATOM	20025	N9	A	A	958	231.616	95.511	22.279	1.00	91.84	A16S
ATOM	20026	C4	A	A	958	232.147	96.614	22.897	1.00	91.84	A16S
ATOM	20027	N3	A	A	958	231.537	97.421	23.778	1.00	91.84	A16S
ATOM	20028	C2	A	A	958	232.369	98.376	24.188	1.00	91.84	A16S
ATOM	20029	N1	A	A	958	233.647	98.600	23.842	1.00	91.84	A16S
ATOM	20030	C6	A	A	958	234.227	97.771	22.952	1.00	91.84	A16S
ATOM	20031	N6	A	A	958	235.495	97.997	22.610	1.00	91.84	A16S
ATOM	20032	C5	A	A	958	233.448	96.716	22.438	1.00	91.84	A16S
ATOM	20033	N7	A	A	958	233.724	95.711	21.520	1.00	91.84	A16S
ATOM	20034	C8	A	A	958	232.606	95.030	21.457	1.00	91.84	A16S
ATOM	20035	C2*	A	A	958	229.120	95.688	21.808	1.00	82.89	A16S
ATOM	20036	O2*	A	A	958	228.046	95.829	22.714	1.00	82.89	A16S
ATOM	20037	C3*	A	A	958	228.807	94.755	20.638	1.00	82.89	A16S
ATOM	20038	O3*	A	A	958	227.417	94.752	20.305	1.00	82.89	A16S
ATOM	20039	P	A	A	959	226.944	95.089	18.803	1.00	64.92	A16S
ATOM	20040	O1P	A	A	959	225.599	94.469	18.615	1.00	70.34	A16S
ATOM	20041	O2P	A	A	959	228.048	94.747	17.860	1.00	70.34	A16S
ATOM	20042	O5*	A	A	959	226.759	96.670	18.831	1.00	64.92	A16S
ATOM	20043	C5*	A	A	959	225.809	97.280	19.728	1.00	64.92	A16S
ATOM	20044	C4*	A	A	959	226.234	98.691	20.070	1.00	64.92	A16S
ATOM	20045	O4*	A	A	959	227.450	98.643	20.853	1.00	64.92	A16S
ATOM	20046	C1*	A	A	959	228.262	99.760	20.537	1.00	64.92	A16S
ATOM	20047	N9	A	A	959	229.590	99.279	20.153	1.00	70.34	A16S
ATOM	20048	C4	A	A	959	230.784	99.694	20.690	1.00	70.34	A16S
ATOM	20049	N3	A	A	959	230.969	100.591	21.670	1.00	70.34	A16S
ATOM	20050	C2	A	A	959	232.260	100.736	21.930	1.00	70.34	A16S
ATOM	20051	N1	A	A	959	233.308	100.144	21.361	1.00	70.34	A16S
ATOM	20052	C6	A	A	959	233.085	99.247	20.379	1.00	70.34	A16S
ATOM	20053	N6	A	A	959	234.132	98.646	19.806	1.00	70.34	A16S
ATOM	20054	C5	A	A	959	231.761	98.995	20.017	1.00	70.34	A16S
ATOM	20055	N7	A	A	959	231.201	98.142	19.082	1.00	70.34	A16S
ATOM	20056	C8	A	A	959	229.914	98.347	19.203	1.00	70.34	A16S
ATOM	20057	C2*	A	A	959	227.550	100.592	19.466	1.00	64.92	A16S
ATOM	20058	O2*	A	A	959	226.976	101.730	20.077	1.00	64.92	A16S
ATOM	20059	C3*	A	A	959	226.555	99.584	18.880	1.00	64.92	A16S
ATOM	20060	O3*	A	A	959	225.368	100.193	18.353	1.00	64.92	A16S
ATOM	20061	P	U	A	960	224.630	99.553	17.062	1.00	75.68	A16S
ATOM	20062	O1P	U	A	960	223.265	100.146	17.010	1.00	71.97	A16S
ATOM	20063	O2P	U	A	960	224.783	98.068	17.073	1.00	71.97	A16S
ATOM	20064	O5*	U	A	960	225.427	100.129	15.807	1.00	75.68	A16S
ATOM	20065	C5*	U	A	960	226.845	100.292	15.849	1.00	75.68	A16S
ATOM	20066	C4*	U	A	960	227.181	101.661	16.376	1.00	75.68	A16S
ATOM	20067	O4*	U	A	960	228.528	101.653	16.886	1.00	75.68	A16S
ATOM	20068	C1*	U	A	960	229.379	102.400	16.045	1.00	75.68	A16S
ATOM	20069	N1	U	A	960	230.451	101.469	15.637	1.00	71.97	A16S
ATOM	20070	C6	U	A	960	231.669	101.487	16.280	1.00	71.97	A16S
ATOM	20071	C2	U	A	960	230.203	100.545	14.628	1.00	71.97	A16S
ATOM	20072	O2	U	A	960	229.162	100.505	14.008	1.00	71.97	A16S
ATOM	20073	N3	U	A	960	231.228	99.660	14.381	1.00	71.97	A16S
ATOM	20074	C4	U	A	960	232.453	99.599	15.020	1.00	71.97	A16S
ATOM	20075	O4	U	A	960	233.207	98.645	14.802	1.00	71.97	A16S
ATOM	20076	C5	U	A	960	232.648	100.606	16.016	1.00	71.97	A16S
ATOM	20077	C2*	U	A	960	228.534	103.034	14.926	1.00	75.68	A16S
ATOM	20078	O2*	U	A	960	228.870	104.374	14.608	1.00	75.68	A16S
ATOM	20079	C3*	U	A	960	227.090	102.822	15.402	1.00	75.68	A16S
ATOM	20080	O3*	U	A	960	226.233	103.889	15.913	1.00	75.68	A16S
ATOM	20081	P	U	A	961	226.792	105.106	16.830	1.00	72.25	A16S
ATOM	20082	O1P	U	A	961	226.879	106.319	15.974	1.00	65.07	A16S
ATOM	20083	O2P	U	A	961	227.960	104.702	17.661	1.00	65.07	A16S
ATOM	20084	O5*	U	A	961	225.576	105.324	17.836	1.00	72.25	A16S
ATOM	20085	C5*	U	A	961	224.976	104.185	18.494	1.00	72.25	A16S
ATOM	20086	C4*	U	A	961	223.635	104.546	19.080	1.00	72.25	A16S
ATOM	20087	O4*	U	A	961	223.801	105.688	19.960	1.00	72.25	A16S
ATOM	20088	C1*	U	A	961	222.636	106.496	19.922	1.00	72.25	A16S
ATOM	20089	N1	U	A	961	222.994	107.833	19.424	1.00	65.07	A16S
ATOM	20090	C6	U	A	961	224.153	108.053	18.726	1.00	65.07	A16S

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ATOM	20091	C2	U	A	961	222.104	108.870	19.670	1.00	65.07	A16S
ATOM	20092	O2	U	A	961	221.056	108.723	20.292	1.00	65.07	A16S
ATOM	20093	N3	U	A	961	222.478	110.084	19.155	1.00	65.07	A16S
ATOM	20094	C4	U	A	961	223.614	110.362	18.437	1.00	65.07	A16S
ATOM	20095	O4	U	A	961	223.793	111.501	18.009	1.00	65.07	A16S
ATOM	20096	C5	U	A	961	224.482	109.246	18.235	1.00	65.07	A16S
ATOM	20097	C2*	U	A	961	221.633	105.816	18.994	1.00	72.25	A16S
ATOM	20098	O2*	U	A	961	220.731	105.030	19.756	1.00	72.25	A16S
ATOM	20099	C3*	U	A	961	222.550	104.983	18.109	1.00	72.25	A16S
ATOM	20100	O3*	U	A	961	221.842	103.894	17.531	1.00	72.25	A16S
ATOM	20101	P	C	A	962	221.075	104.101	16.125	1.00	56.22	A16S
ATOM	20102	O1P	C	A	962	220.208	102.901	15.945	1.00	59.43	A16S
ATOM	20103	O2P	C	A	962	222.084	104.445	15.079	1.00	59.43	A16S
ATOM	20104	O5*	C	A	962	220.169	105.407	16.333	1.00	56.22	A16S
ATOM	20105	C5*	C	A	962	219.060	105.394	17.244	1.00	56.22	A16S
ATOM	20106	C4*	C	A	962	218.375	106.742	17.296	1.00	56.22	A16S
ATOM	20107	O4*	C	A	962	219.276	107.770	17.787	1.00	56.22	A16S
ATOM	20108	C1*	C	A	962	218.857	109.036	17.292	1.00	56.22	A16S
ATOM	20109	N1	C	A	962	219.948	109.680	16.533	1.00	59.43	A16S
ATOM	20110	C6	C	A	962	221.084	109.003	16.179	1.00	59.43	A16S
ATOM	20111	C2	C	A	962	219.771	111.020	16.135	1.00	59.43	A16S
ATOM	20112	O2	C	A	962	218.757	111.630	16.514	1.00	59.43	A16S
ATOM	20113	N3	C	A	962	220.705	111.610	15.355	1.00	59.43	A16S
ATOM	20114	C4	C	A	962	221.791	110.927	14.986	1.00	59.43	A16S
ATOM	20115	N4	C	A	962	222.666	111.541	14.195	1.00	59.43	A16S
ATOM	20116	C5	C	A	962	222.022	109.582	15.411	1.00	59.43	A16S
ATOM	20117	C2*	C	A	962	217.677	108.794	16.353	1.00	56.22	A16S
ATOM	20118	O2*	C	A	962	216.460	109.082	17.011	1.00	56.22	A16S
ATOM	20119	C3*	C	A	962	217.859	107.325	15.998	1.00	56.22	A16S
ATOM	20120	O3*	C	A	962	216.649	106.743	15.558	1.00	56.22	A16S
ATOM	20121	P	G	A	963	216.432	106.488	13.986	1.00	55.70	A16S
ATOM	20122	O1P	G	A	963	215.373	105.454	13.889	1.00	50.58	A16S
ATOM	20123	O2P	G	A	963	217.760	106.236	13.364	1.00	50.58	A16S
ATOM	20124	O5*	G	A	963	215.916	107.884	13.410	1.00	55.70	A16S
ATOM	20125	C5*	G	A	963	214.758	108.515	13.954	1.00	55.70	A16S
ATOM	20126	C4*	G	A	963	214.819	110.009	13.750	1.00	55.70	A16S
ATOM	20127	O4*	G	A	963	216.053	110.531	14.319	1.00	55.70	A16S
ATOM	20128	C1*	G	A	963	216.446	111.704	13.619	1.00	55.70	A16S
ATOM	20129	N9	G	A	963	217.770	111.504	13.033	1.00	50.58	A16S
ATOM	20130	C4	G	A	963	218.435	112.403	12.231	1.00	50.58	A16S
ATOM	20131	N3	G	A	963	218.007	113.639	11.908	1.00	50.58	A16S
ATOM	20132	C2	G	A	963	218.837	114.249	11.087	1.00	50.58	A16S
ATOM	20133	N2	G	A	963	218.580	115.492	10.701	1.00	50.58	A16S
ATOM	20134	N1	G	A	963	219.985	113.684	10.591	1.00	50.58	A16S
ATOM	20135	C6	G	A	963	220.440	112.404	10.895	1.00	50.58	A16S
ATOM	20136	O6	G	A	963	221.469	111.972	10.360	1.00	50.58	A16S
ATOM	20137	C5	G	A	963	219.577	111.751	11.814	1.00	50.58	A16S
ATOM	20138	N7	G	A	963	219.663	110.490	12.393	1.00	50.58	A16S
ATOM	20139	C8	G	A	963	218.574	110.388	13.111	1.00	50.58	A16S
ATOM	20140	C2*	G	A	963	215.415	111.938	12.514	1.00	55.70	A16S
ATOM	20141	O2*	G	A	963	214.461	112.870	12.978	1.00	55.70	A16S
ATOM	20142	C3*	G	A	963	214.828	110.542	12.324	1.00	55.70	A16S
ATOM	20143	O3*	G	A	963	213.525	110.611	11.742	1.00	55.70	A16S
ATOM	20144	P	A	A	964	213.333	110.284	10.172	1.00	56.51	A16S
ATOM	20145	O1P	A	A	964	211.865	110.293	9.881	1.00	57.96	A16S
ATOM	20146	O2P	A	A	964	214.132	109.052	9.872	1.00	57.96	A16S
ATOM	20147	O5*	A	A	964	214.001	111.522	9.420	1.00	56.51	A16S
ATOM	20148	C5*	A	A	964	213.387	112.815	9.440	1.00	56.51	A16S
ATOM	20149	C4*	A	A	964	214.219	113.805	8.654	1.00	56.51	A16S
ATOM	20150	O4*	A	A	964	215.548	113.847	9.233	1.00	56.51	A16S
ATOM	20151	C1*	A	A	964	216.522	113.944	8.212	1.00	56.51	A16S
ATOM	20152	N9	A	A	964	217.339	112.730	8.283	1.00	57.96	A16S
ATOM	20153	C4	A	A	964	218.416	112.397	7.501	1.00	57.96	A16S
ATOM	20154	N3	A	A	964	218.954	113.118	6.502	1.00	57.96	A16S
ATOM	20155	C2	A	A	964	219.980	112.463	5.959	1.00	57.96	A16S
ATOM	20156	N1	A	A	964	220.490	111.261	6.286	1.00	57.96	A16S
ATOM	20157	C6	A	A	964	219.922	110.573	7.302	1.00	57.96	A16S
ATOM	20158	N6	A	A	964	220.423	109.386	7.641	1.00	57.96	A16S
ATOM	20159	C5	A	A	964	218.833	111.151	7.949	1.00	57.96	A16S
ATOM	20160	N7	A	A	964	218.041	110.710	8.994	1.00	57.96	A16S
ATOM	20161	C8	A	A	964	217.175	111.677	9.156	1.00	57.96	A16S
ATOM	20162	C2*	A	A	964	215.780	114.139	6.885	1.00	56.51	A16S
ATOM	20163	O2*	A	A	964	215.696	115.529	6.626	1.00	56.51	A16S
ATOM	20164	C3*	A	A	964	214.428	113.483	7.180	1.00	56.51	A16S
ATOM	20165	O3*	A	A	964	213.351	114.010	6.385	1.00	56.51	A16S
ATOM	20166	P	A	A	965	212.272	113.005	5.720	1.00	58.51	A16S
ATOM	20167	O1P	A	A	965	211.067	113.785	5.331	1.00	58.66	A16S

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ATOM	20168	O2P	A	A	965	212.123	111.802	6.598	1.00	58.66	A16S
ATOM	20169	O5*	A	A	965	212.975	112.531	4.373	1.00	58.51	A16S
ATOM	20170	C5*	A	A	965	212.890	113.305	3.147	1.00	58.51	A16S
ATOM	20171	C4*	A	A	965	213.409	112.475	2.008	1.00	58.51	A16S
ATOM	20172	O4*	A	A	965	214.760	112.109	2.349	1.00	58.51	A16S
ATOM	20173	C1*	A	A	965	214.995	110.764	2.011	1.00	58.51	A16S
ATOM	20174	N9	A	A	965	215.706	110.140	3.119	1.00	58.66	A16S
ATOM	20175	C4	A	A	965	216.875	109.420	3.029	1.00	58.66	A16S
ATOM	20176	N3	A	A	965	217.575	109.130	1.919	1.00	58.66	A16S
ATOM	20177	C2	A	A	965	218.642	108.393	2.221	1.00	58.66	A16S
ATOM	20178	N1	A	A	965	219.058	107.948	3.414	1.00	58.66	A16S
ATOM	20179	C6	A	A	965	218.325	108.254	4.506	1.00	58.66	A16S
ATOM	20180	N6	A	A	965	218.716	107.792	5.692	1.00	58.66	A16S
ATOM	20181	C5	A	A	965	217.180	109.034	4.324	1.00	58.66	A16S
ATOM	20182	N7	A	A	965	216.229	109.510	5.215	1.00	58.66	A16S
ATOM	20183	C8	A	A	965	215.375	110.154	4.450	1.00	58.66	A16S
ATOM	20184	C2*	A	A	965	213.693	110.108	1.543	1.00	58.51	A16S
ATOM	20185	O2*	A	A	965	213.776	109.732	0.191	1.00	58.51	A16S
ATOM	20186	C3*	A	A	965	212.652	111.167	1.881	1.00	58.51	A16S
ATOM	20187	O3*	A	A	965	211.520	111.338	1.011	1.00	58.51	A16S
ATOM	20188	P	G	A	966	211.680	111.429	-0.611	1.00	48.47	A16S
ATOM	20189	O1P	G	A	966	211.964	110.063	-1.156	1.00	56.62	A16S
ATOM	20190	O2P	G	A	966	210.447	112.168	-1.082	1.00	56.62	A16S
ATOM	20191	O5*	G	A	966	212.916	112.390	-0.902	1.00	48.47	A16S
ATOM	20192	C5*	G	A	966	214.070	111.889	-1.585	1.00	48.47	A16S
ATOM	20193	C4*	G	A	966	214.269	112.591	-2.901	1.00	48.47	A16S
ATOM	20194	O4*	G	A	966	213.247	112.213	-3.859	1.00	48.47	A16S
ATOM	20195	C1*	G	A	966	213.124	113.247	-4.831	1.00	48.47	A16S
ATOM	20196	N9	G	A	966	211.709	113.530	-5.062	1.00	56.62	A16S
ATOM	20197	C4	G	A	966	211.172	114.335	-6.050	1.00	56.62	A16S
ATOM	20198	N3	G	A	966	211.857	115.009	-6.997	1.00	56.62	A16S
ATOM	20199	C2	G	A	966	211.053	115.705	-7.789	1.00	56.62	A16S
ATOM	20200	N2	G	A	966	211.554	116.451	-8.780	1.00	56.62	A16S
ATOM	20201	N1	G	A	966	209.697	115.726	-7.666	1.00	56.62	A16S
ATOM	20202	C6	G	A	966	208.974	115.033	-6.705	1.00	56.62	A16S
ATOM	20203	O6	G	A	966	207.743	115.115	-6.683	1.00	56.62	A16S
ATOM	20204	C5	G	A	966	209.814	114.297	-5.849	1.00	56.62	A16S
ATOM	20205	N7	G	A	966	209.497	113.487	-4.769	1.00	56.62	A16S
ATOM	20206	C8	G	A	966	210.649	113.054	-4.336	1.00	56.62	A16S
ATOM	20207	C2*	G	A	966	213.917	114.462	-4.335	1.00	48.47	A16S
ATOM	20208	O2*	G	A	966	215.090	114.615	-5.102	1.00	48.47	A16S
ATOM	20209	C3*	G	A	966	214.187	114.102	-2.872	1.00	48.47	A16S
ATOM	20210	O3*	G	A	966	215.372	114.702	-2.376	1.00	48.47	A16S
ATOM	20211	P	C	A	967	215.299	116.186	-1.765	1.00	37.82	A16S
ATOM	20212	O1P	C	A	967	216.670	116.557	-1.325	1.00	69.11	A16S
ATOM	20213	O2P	C	A	967	214.182	116.226	-0.789	1.00	69.11	A16S
ATOM	20214	O5*	C	A	967	214.916	117.110	-3.011	1.00	37.82	A16S
ATOM	20215	C5*	C	A	967	215.942	117.627	-3.881	1.00	37.82	A16S
ATOM	20216	C4*	C	A	967	215.343	118.546	-4.915	1.00	37.82	A16S
ATOM	20217	O4*	C	A	967	214.294	117.839	-5.615	1.00	37.82	A16S
ATOM	20218	C1*	C	A	967	213.269	118.738	-5.984	1.00	37.82	A16S
ATOM	20219	N1	C	A	967	211.994	118.231	-5.457	1.00	69.11	A16S
ATOM	20220	C6	C	A	967	211.970	117.435	-4.344	1.00	69.11	A16S
ATOM	20221	C2	C	A	967	210.794	118.580	-6.107	1.00	69.11	A16S
ATOM	20222	O2	C	A	967	210.835	119.289	-7.130	1.00	69.11	A16S
ATOM	20223	N3	C	A	967	209.623	118.131	-5.597	1.00	69.11	A16S
ATOM	20224	C4	C	A	967	209.620	117.368	-4.496	1.00	69.11	A16S
ATOM	20225	N4	C	A	967	208.447	116.965	-4.012	1.00	69.11	A16S
ATOM	20226	C5	C	A	967	210.820	116.988	-3.837	1.00	69.11	A16S
ATOM	20227	C2*	C	A	967	213.651	120.127	-5.472	1.00	37.82	A16S
ATOM	20228	O2*	C	A	967	214.179	120.859	-6.552	1.00	37.82	A16S
ATOM	20229	C3*	C	A	967	214.691	119.814	-4.397	1.00	37.82	A16S
ATOM	20230	O3*	C	A	967	215.672	120.854	-4.313	1.00	37.82	A16S
ATOM	20231	P	A	A	968	215.485	122.061	-3.260	1.00	54.49	A16S
ATOM	20232	O1P	A	A	968	214.239	122.807	-3.604	1.00	59.02	A16S
ATOM	20233	O2P	A	A	968	216.774	122.794	-3.178	1.00	59.02	A16S
ATOM	20234	O5*	A	A	968	215.254	121.304	-1.875	1.00	54.49	A16S
ATOM	20235	C5*	A	A	968	215.149	122.022	-0.626	1.00	54.49	A16S
ATOM	20236	C4*	A	A	968	214.044	121.430	0.220	1.00	54.49	A16S
ATOM	20237	O4*	A	A	968	212.773	121.734	-0.399	1.00	54.49	A16S
ATOM	20238	C1*	A	A	968	212.058	120.546	-0.637	1.00	54.49	A16S
ATOM	20239	N9	A	A	968	211.314	120.704	-1.881	1.00	59.02	A16S
ATOM	20240	C4	A	A	968	210.006	120.345	-2.073	1.00	59.02	A16S
ATOM	20241	N3	A	A	968	209.190	119.751	-1.187	1.00	59.02	A16S
ATOM	20242	C2	A	A	968	207.977	119.595	-1.706	1.00	59.02	A16S
ATOM	20243	N1	A	A	968	207.523	119.941	-2.918	1.00	59.02	A16S
ATOM	20244	C6	A	A	968	208.373	120.533	-3.784	1.00	59.02	A16S

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ATOM	20245	N6	A	A	968	207.918	120.883	-4.986	1.00	59.02	A16S
ATOM	20246	C5	A	A	968	209.688	120.749	-3.358	1.00	59.02	A16S
ATOM	20247	N7	A	A	968	210.788	121.323	-3.979	1.00	59.02	A16S
ATOM	20248	C8	A	A	968	211.728	121.264	-3.066	1.00	59.02	A16S
ATOM	20249	C2*	A	A	968	213.086	119.425	-0.652	1.00	54.49	A16S
ATOM	20250	O2*	A	A	968	212.461	118.208	-0.301	1.00	54.49	A16S
ATOM	20251	C3*	A	A	968	214.082	119.917	0.391	1.00	54.49	A16S
ATOM	20252	O3*	A	A	968	213.581	119.584	1.675	1.00	54.49	A16S
ATOM	20253	P	A	A	969	214.599	119.383	2.891	1.00	54.68	A16S
ATOM	20254	O1P	A	A	969	213.919	118.590	3.958	1.00	51.50	A16S
ATOM	20255	O2P	A	A	969	215.141	120.741	3.196	1.00	51.50	A16S
ATOM	20256	O5*	A	A	969	215.766	118.476	2.295	1.00	54.68	A16S
ATOM	20257	C5*	A	A	969	215.595	117.056	2.143	1.00	54.68	A16S
ATOM	20258	C4*	A	A	969	216.468	116.316	3.129	1.00	54.68	A16S
ATOM	20259	O4*	A	A	969	216.171	114.899	3.039	1.00	54.68	A16S
ATOM	20260	C1*	A	A	969	217.364	114.145	3.168	1.00	54.68	A16S
ATOM	20261	N9	A	A	969	217.612	113.477	1.891	1.00	51.50	A16S
ATOM	20262	C4	A	A	969	218.519	112.473	1.662	1.00	51.50	A16S
ATOM	20263	N3	A	A	969	219.337	111.900	2.557	1.00	51.50	A16S
ATOM	20264	C2	A	A	969	220.101	110.983	1.971	1.00	51.50	A16S
ATOM	20265	N1	A	A	969	220.127	110.596	0.691	1.00	51.50	A16S
ATOM	20266	C6	A	A	969	219.282	111.192	-0.181	1.00	51.50	A16S
ATOM	20267	N6	A	A	969	219.299	110.806	-1.460	1.00	51.50	A16S
ATOM	20268	C5	A	A	969	218.432	112.188	0.314	1.00	51.50	A16S
ATOM	20269	N7	A	A	969	217.479	112.990	-0.300	1.00	51.50	A16S
ATOM	20270	C8	A	A	969	217.018	113.730	0.676	1.00	51.50	A16S
ATOM	20271	C2*	A	A	969	218.490	115.122	3.498	1.00	54.68	A16S
ATOM	20272	O2*	A	A	969	218.667	115.193	4.901	1.00	54.68	A16S
ATOM	20273	C3*	A	A	969	217.963	116.407	2.872	1.00	54.68	A16S
ATOM	20274	O3*	A	A	969	218.556	117.582	3.417	1.00	54.68	A16S
ATOM	20275	P	C	A	970	219.919	118.149	2.771	1.00	39.68	A16S
ATOM	20276	O1P	C	A	970	220.459	119.234	3.645	1.00	63.82	A16S
ATOM	20277	O2P	C	A	970	219.678	118.434	1.312	1.00	63.82	A16S
ATOM	20278	O5*	C	A	970	220.919	116.916	2.921	1.00	39.68	A16S
ATOM	20279	C5*	C	A	970	221.391	116.499	4.214	1.00	39.68	A16S
ATOM	20280	C4*	C	A	970	222.469	115.458	4.062	1.00	39.68	A16S
ATOM	20281	O4*	C	A	970	221.900	114.316	3.381	1.00	39.68	A16S
ATOM	20282	C1*	C	A	970	222.866	113.741	2.513	1.00	39.68	A16S
ATOM	20283	N1	C	A	970	222.367	113.768	1.115	1.00	63.82	A16S
ATOM	20284	C6	C	A	970	221.589	114.793	0.651	1.00	63.82	A16S
ATOM	20285	C2	C	A	970	222.720	112.716	0.263	1.00	63.82	A16S
ATOM	20286	O2	C	A	970	223.404	111.784	0.716	1.00	63.82	A16S
ATOM	20287	N3	C	A	970	222.302	112.736	-1.025	1.00	63.82	A16S
ATOM	20288	C4	C	A	970	221.545	113.741	-1.465	1.00	63.82	A16S
ATOM	20289	N4	C	A	970	221.150	113.715	-2.741	1.00	63.82	A16S
ATOM	20290	C5	C	A	970	221.158	114.816	-0.618	1.00	63.82	A16S
ATOM	20291	C2*	C	A	970	224.164	114.517	2.687	1.00	39.68	A16S
ATOM	20292	O2*	C	A	970	224.929	113.839	3.652	1.00	39.68	A16S
ATOM	20293	C3*	C	A	970	223.649	115.855	3.189	1.00	39.68	A16S
ATOM	20294	O3*	C	A	970	224.642	116.585	3.889	1.00	39.68	A16S
ATOM	20295	P	G	A	971	225.205	117.950	3.249	1.00	54.32	A16S
ATOM	20296	O1P	G	A	971	224.305	119.064	3.673	1.00	82.33	A16S
ATOM	20297	O2P	G	A	971	225.441	117.722	1.792	1.00	82.33	A16S
ATOM	20298	O5*	G	A	971	226.627	118.118	3.955	1.00	54.32	A16S
ATOM	20299	C5*	G	A	971	226.751	118.157	5.396	1.00	54.32	A16S
ATOM	20300	C4*	G	A	971	227.401	119.456	5.834	1.00	54.32	A16S
ATOM	20301	O4*	G	A	971	228.855	119.361	5.833	1.00	54.32	A16S
ATOM	20302	C1*	G	A	971	229.362	120.587	5.373	1.00	54.32	A16S
ATOM	20303	N9	G	A	971	230.752	120.450	4.966	1.00	82.33	A16S
ATOM	20304	C4	G	A	971	231.813	120.346	5.814	1.00	82.33	A16S
ATOM	20305	N3	G	A	971	231.738	120.296	7.151	1.00	82.33	A16S
ATOM	20306	C2	G	A	971	232.924	120.218	7.703	1.00	82.33	A16S
ATOM	20307	N2	G	A	971	233.025	120.160	9.036	1.00	82.33	A16S
ATOM	20308	N1	G	A	971	234.098	120.193	6.994	1.00	82.33	A16S
ATOM	20309	C6	G	A	971	234.196	120.251	5.611	1.00	82.33	A16S
ATOM	20310	O6	G	A	971	235.306	120.236	5.066	1.00	82.33	A16S
ATOM	20311	C5	G	A	971	232.927	120.328	5.011	1.00	82.33	A16S
ATOM	20312	N7	G	A	971	232.571	120.396	3.673	1.00	82.33	A16S
ATOM	20313	C8	G	A	971	231.269	120.455	3.694	1.00	82.33	A16S
ATOM	20314	C2*	G	A	971	228.372	121.021	4.306	1.00	54.32	A16S
ATOM	20315	O2*	G	A	971	228.584	122.385	3.985	1.00	54.32	A16S
ATOM	20316	C3*	G	A	971	227.054	120.702	5.011	1.00	54.32	A16S
ATOM	20317	O3*	G	A	971	226.728	121.795	5.860	1.00	54.32	A16S
ATOM	20318	P	C	A	972	225.418	122.676	5.553	1.00	62.36	A16S
ATOM	20319	O1P	C	A	972	225.024	122.424	4.133	1.00	48.75	A16S
ATOM	20320	O2P	C	A	972	225.647	124.063	5.973	1.00	48.75	A16S
ATOM	20321	O5*	C	A	972	224.356	122.056	6.570	1.00	62.36	A16S

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ATOM	20322	C5*	C	A	972	223.931	120.681	6.456	1.00	62.36	A16S
ATOM	20323	C4*	C	A	972	222.521	120.525	6.980	1.00	62.36	A16S
ATOM	20324	O4*	C	A	972	221.913	119.341	6.404	1.00	62.36	A16S
ATOM	20325	C1*	C	A	972	221.072	118.727	7.357	1.00	62.36	A16S
ATOM	20326	N1	C	A	972	221.674	117.442	7.729	1.00	48.75	A16S
ATOM	20327	C6	C	A	972	222.975	117.164	7.429	1.00	48.75	A16S
ATOM	20328	C2	C	A	972	220.898	116.516	8.411	1.00	48.75	A16S
ATOM	20329	O2	C	A	972	219.712	116.789	8.645	1.00	48.75	A16S
ATOM	20330	N3	C	A	972	221.451	115.347	8.798	1.00	48.75	A16S
ATOM	20331	C4	C	A	972	222.728	115.092	8.515	1.00	48.75	A16S
ATOM	20332	N4	C	A	972	223.246	113.933	8.932	1.00	48.75	A16S
ATOM	20333	C5	C	A	972	223.535	116.013	7.797	1.00	48.75	A16S
ATOM	20334	C2*	C	A	972	221.011	119.649	8.569	1.00	62.36	A16S
ATOM	20335	O2*	C	A	972	219.937	120.548	8.392	1.00	62.36	A16S
ATOM	20336	C3*	C	A	972	222.361	120.344	8.481	1.00	62.36	A16S
ATOM	20337	O3*	C	A	972	222.395	121.568	9.204	1.00	62.36	A16S
ATOM	20338	P	G	A	973	222.914	121.575	10.735	1.00	59.81	A16S
ATOM	20339	O1P	G	A	973	223.148	123.024	11.035	1.00	47.26	A16S
ATOM	20340	O2P	G	A	973	224.026	120.586	10.937	1.00	47.26	A16S
ATOM	20341	O5*	G	A	973	221.678	121.001	11.569	1.00	59.81	A16S
ATOM	20342	C5*	G	A	973	220.478	121.771	11.772	1.00	59.81	A16S
ATOM	20343	C4*	G	A	973	219.693	121.209	12.935	1.00	59.81	A16S
ATOM	20344	O4*	G	A	973	219.168	119.899	12.589	1.00	59.81	A16S
ATOM	20345	C1*	G	A	973	219.274	119.026	13.700	1.00	59.81	A16S
ATOM	20346	N9	G	A	973	220.231	117.980	13.343	1.00	47.26	A16S
ATOM	20347	C4	G	A	973	220.219	116.638	13.706	1.00	47.26	A16S
ATOM	20348	N3	G	A	973	219.281	116.009	14.455	1.00	47.26	A16S
ATOM	20349	C2	G	A	973	219.560	114.719	14.615	1.00	47.26	A16S
ATOM	20350	N2	G	A	973	218.728	113.931	15.292	1.00	47.26	A16S
ATOM	20351	N1	G	A	973	220.671	114.110	14.112	1.00	47.26	A16S
ATOM	20352	C6	G	A	973	221.651	114.740	13.355	1.00	47.26	A16S
ATOM	20353	O6	G	A	973	222.636	114.103	12.968	1.00	47.26	A16S
ATOM	20354	C5	G	A	973	221.357	116.103	13.145	1.00	47.26	A16S
ATOM	20355	N7	G	A	973	222.056	117.064	12.431	1.00	47.26	A16S
ATOM	20356	C8	G	A	973	221.356	118.155	12.575	1.00	47.26	A16S
ATOM	20357	C2*	G	A	973	219.754	119.866	14.887	1.00	59.81	A16S
ATOM	20358	O2*	G	A	973	218.638	120.373	15.573	1.00	59.81	A16S
ATOM	20359	C3*	G	A	973	220.514	120.991	14.196	1.00	59.81	A16S
ATOM	20360	O3*	G	A	973	220.592	122.201	14.961	1.00	59.81	A16S
ATOM	20361	P	A	A	974	221.397	122.234	16.369	1.00	66.81	A16S
ATOM	20362	O1P	A	A	974	221.574	120.835	16.889	1.00	51.49	A16S
ATOM	20363	O2P	A	A	974	220.693	123.253	17.204	1.00	51.49	A16S
ATOM	20364	O5*	A	A	974	222.840	122.837	16.053	1.00	66.81	A16S
ATOM	20365	C5*	A	A	974	223.579	122.410	14.909	1.00	66.81	A16S
ATOM	20366	C4*	A	A	974	224.905	121.807	15.319	1.00	66.81	A16S
ATOM	20367	O4*	A	A	974	224.705	120.631	16.159	1.00	66.81	A16S
ATOM	20368	C1*	A	A	974	225.277	119.492	15.543	1.00	66.81	A16S
ATOM	20369	N9	A	A	974	224.383	118.349	15.746	1.00	51.49	A16S
ATOM	20370	C4	A	A	974	224.727	117.013	15.704	1.00	51.49	A16S
ATOM	20371	N3	A	A	974	225.938	116.482	15.443	1.00	51.49	A16S
ATOM	20372	C2	A	A	974	225.895	115.146	15.519	1.00	51.49	A16S
ATOM	20373	N1	A	A	974	224.852	114.343	15.809	1.00	51.49	A16S
ATOM	20374	C6	A	A	974	223.648	114.912	16.057	1.00	51.49	A16S
ATOM	20375	N6	A	A	974	222.611	114.124	16.342	1.00	51.49	A16S
ATOM	20376	C5	A	A	974	223.561	116.314	16.002	1.00	51.49	A16S
ATOM	20377	N7	A	A	974	222.499	117.185	16.196	1.00	51.49	A16S
ATOM	20378	C8	A	A	974	223.034	118.375	16.031	1.00	51.49	A16S
ATOM	20379	C2*	A	A	974	225.432	119.840	14.068	1.00	66.81	A16S
ATOM	20380	O2*	A	A	974	226.457	119.072	13.478	1.00	66.81	A16S
ATOM	20381	C3*	A	A	974	225.707	121.342	14.118	1.00	66.81	A16S
ATOM	20382	O3*	A	A	974	227.072	121.647	14.333	1.00	66.81	A16S
ATOM	20383	P	A	A	975	227.733	122.889	13.558	1.00	55.05	A16S
ATOM	20384	O1P	A	A	975	226.675	123.570	12.746	1.00	64.34	A16S
ATOM	20385	O2P	A	A	975	228.950	122.361	12.892	1.00	64.34	A16S
ATOM	20386	O5*	A	A	975	228.193	123.869	14.728	1.00	55.05	A16S
ATOM	20387	C5*	A	A	975	228.206	125.307	14.566	1.00	55.05	A16S
ATOM	20388	C4*	A	A	975	227.934	125.981	15.900	1.00	55.05	A16S
ATOM	20389	O4*	A	A	975	228.148	127.405	15.799	1.00	55.05	A16S
ATOM	20390	C1*	A	A	975	226.913	128.080	15.793	1.00	55.05	A16S
ATOM	20391	N9	A	A	975	226.650	128.501	14.426	1.00	64.34	A16S
ATOM	20392	C4	A	A	975	226.318	129.762	14.028	1.00	64.34	A16S
ATOM	20393	N3	A	A	975	226.145	130.834	14.812	1.00	64.34	A16S
ATOM	20394	C2	A	A	975	225.836	131.901	14.074	1.00	64.34	A16S
ATOM	20395	N1	A	A	975	225.692	131.999	12.737	1.00	64.34	A16S
ATOM	20396	C6	A	A	975	225.872	130.887	11.986	1.00	64.34	A16S
ATOM	20397	N6	A	A	975	225.723	130.971	10.663	1.00	64.34	A16S
ATOM	20398	C5	A	A	975	226.205	129.706	12.648	1.00	64.34	A16S

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ATOM	20399	N7	A	A	975	226.454	128.427	12.186	1.00	64.34	A16S
ATOM	20400	C8	A	A	975	226.706	127.749	13.278	1.00	64.34	A16S
ATOM	20401	C2*	A	A	975	225.850	127.177	16.411	1.00	55.05	A16S
ATOM	20402	O2*	A	A	975	225.516	127.646	17.686	1.00	55.05	A16S
ATOM	20403	C3*	A	A	975	226.517	125.800	16.414	1.00	55.05	A16S
ATOM	20404	O3*	A	A	975	226.319	124.869	17.497	1.00	55.05	A16S
ATOM	20405	P	G	A	976	227.200	124.960	18.850	1.00	55.02	A16S
ATOM	20406	O1P	G	A	976	226.680	123.908	19.776	1.00	78.67	A16S
ATOM	20407	O2P	G	A	976	227.285	126.369	19.310	1.00	78.67	A16S
ATOM	20408	O5*	G	A	976	228.657	124.479	18.413	1.00	55.02	A16S
ATOM	20409	C5*	G	A	976	228.824	123.384	17.501	1.00	55.02	A16S
ATOM	20410	C4*	G	A	976	230.167	122.709	17.688	1.00	55.02	A16S
ATOM	20411	O4*	G	A	976	231.279	123.552	17.258	1.00	55.02	A16S
ATOM	20412	C1*	G	A	976	232.353	123.376	18.160	1.00	55.02	A16S
ATOM	20413	N9	G	A	976	233.218	124.555	18.121	1.00	78.67	A16S
ATOM	20414	C4	G	A	976	234.336	124.713	17.333	1.00	78.67	A16S
ATOM	20415	N3	G	A	976	234.824	123.806	16.465	1.00	78.67	A16S
ATOM	20416	C2	G	A	976	235.909	124.245	15.850	1.00	78.67	A16S
ATOM	20417	N2	G	A	976	236.507	123.464	14.954	1.00	78.67	A16S
ATOM	20418	N1	G	A	976	236.482	125.478	16.071	1.00	78.67	A16S
ATOM	20419	C6	G	A	976	236.007	126.429	16.968	1.00	78.67	A16S
ATOM	20420	O6	G	A	976	236.613	127.509	17.108	1.00	78.67	A16S
ATOM	20421	C5	G	A	976	234.824	125.969	17.633	1.00	78.67	A16S
ATOM	20422	N7	G	A	976	234.029	126.587	18.586	1.00	78.67	A16S
ATOM	20423	C8	G	A	976	233.094	125.712	18.849	1.00	78.67	A16S
ATOM	20424	C2*	G	A	976	231.694	123.062	19.505	1.00	55.02	A16S
ATOM	20425	O2*	G	A	976	232.588	122.347	20.329	1.00	55.02	A16S
ATOM	20426	C3*	G	A	976	230.517	122.185	19.078	1.00	55.02	A16S
ATOM	20427	O3*	G	A	976	230.958	120.839	18.979	1.00	55.02	A16S
ATOM	20428	P	A	A	977	230.173	119.697	19.784	1.00	55.55	A16S
ATOM	20429	O1P	A	A	977	228.727	119.845	19.445	1.00	87.61	A16S
ATOM	20430	O2P	A	A	977	230.600	119.742	21.210	1.00	87.61	A16S
ATOM	20431	O5*	A	A	977	230.694	118.334	19.147	1.00	55.55	A16S
ATOM	20432	C5*	A	A	977	232.055	117.932	19.296	1.00	55.55	A16S
ATOM	20433	C4*	A	A	977	232.133	116.705	20.156	1.00	55.55	A16S
ATOM	20434	O4*	A	A	977	231.326	115.644	19.588	1.00	55.55	A16S
ATOM	20435	C1*	A	A	977	231.912	114.392	19.897	1.00	55.55	A16S
ATOM	20436	N9	A	A	977	231.974	113.570	18.680	1.00	87.61	A16S
ATOM	20437	C4	A	A	977	233.049	113.338	17.843	1.00	87.61	A16S
ATOM	20438	N3	A	A	977	234.295	113.831	17.946	1.00	87.61	A16S
ATOM	20439	C2	A	A	977	235.068	113.376	16.960	1.00	87.61	A16S
ATOM	20440	N1	A	A	977	234.767	112.551	15.958	1.00	87.61	A16S
ATOM	20441	C6	A	A	977	233.510	112.077	15.874	1.00	87.61	A16S
ATOM	20442	N6	A	A	977	233.210	111.260	14.866	1.00	87.61	A16S
ATOM	20443	C5	A	A	977	232.586	112.479	16.862	1.00	87.61	A16S
ATOM	20444	N7	A	A	977	231.247	112.178	17.067	1.00	87.61	A16S
ATOM	20445	C8	A	A	977	230.933	112.849	18.150	1.00	87.61	A16S
ATOM	20446	C2*	A	A	977	233.228	114.649	20.640	1.00	55.55	A16S
ATOM	20447	O2*	A	A	977	233.019	114.460	22.021	1.00	55.55	A16S
ATOM	20448	C3*	A	A	977	233.519	116.108	20.291	1.00	55.55	A16S
ATOM	20449	O3*	A	A	977	234.214	116.798	21.322	1.00	55.55	A16S
ATOM	20450	P	A	A	978	235.812	116.667	21.457	1.00	58.27	A16S
ATOM	20451	O1P	A	A	978	236.201	117.723	22.433	1.00	69.70	A16S
ATOM	20452	O2P	A	A	978	236.449	116.639	20.107	1.00	69.70	A16S
ATOM	20453	O5*	A	A	978	236.026	115.255	22.163	1.00	58.27	A16S
ATOM	20454	C5*	A	A	978	236.259	114.078	21.394	1.00	58.27	A16S
ATOM	20455	C4*	A	A	978	237.192	113.167	22.136	1.00	58.27	A16S
ATOM	20456	O4*	A	A	978	238.495	113.784	22.213	1.00	58.27	A16S
ATOM	20457	C1*	A	A	978	239.114	113.429	23.440	1.00	58.27	A16S
ATOM	20458	N9	A	A	978	239.608	114.647	24.088	1.00	69.70	A16S
ATOM	20459	C4	A	A	978	240.768	114.747	24.815	1.00	69.70	A16S
ATOM	20460	N3	A	A	978	241.626	113.756	25.118	1.00	69.70	A16S
ATOM	20461	C2	A	A	978	242.664	114.232	25.801	1.00	69.70	A16S
ATOM	20462	N1	A	A	978	242.929	115.496	26.181	1.00	69.70	A16S
ATOM	20463	C6	A	A	978	242.049	116.468	25.854	1.00	69.70	A16S
ATOM	20464	N6	A	A	978	242.325	117.728	26.205	1.00	69.70	A16S
ATOM	20465	C5	A	A	978	240.892	116.088	25.146	1.00	69.70	A16S
ATOM	20466	N7	A	A	978	239.804	116.813	24.678	1.00	69.70	A16S
ATOM	20467	C8	A	A	978	239.068	115.915	24.068	1.00	69.70	A16S
ATOM	20468	C2*	A	A	978	238.136	112.581	24.256	1.00	58.27	A16S
ATOM	20469	O2*	A	A	978	238.530	111.223	24.190	1.00	58.27	A16S
ATOM	20470	C3*	A	A	978	236.800	112.889	23.577	1.00	58.27	A16S
ATOM	20471	O3*	A	A	978	235.922	111.777	23.624	1.00	58.27	A16S
ATOM	20472	P	C	A	979	234.549	111.885	24.431	1.00	86.89	A16S
ATOM	20473	O1P	C	A	979	233.841	110.566	24.298	1.00	56.01	A16S
ATOM	20474	O2P	C	A	979	233.886	113.129	23.995	1.00	56.01	A16S
ATOM	20475	O5*	C	A	979	235.024	112.098	25.933	1.00	86.89	A16S

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ATOM	20476	C5*	C	A	979	235.746	111.068	26.623	1.00	86.89	A16S
ATOM	20477	C4*	C	A	979	235.828	111.383	28.095	1.00	86.89	A16S
ATOM	20478	O4*	C	A	979	236.822	112.416	28.328	1.00	86.89	A16S
ATOM	20479	C1*	C	A	979	236.411	113.238	29.407	1.00	86.89	A16S
ATOM	20480	N1	C	A	979	236.245	114.616	28.905	1.00	56.01	A16S
ATOM	20481	C6	C	A	979	236.120	114.860	27.567	1.00	56.01	A16S
ATOM	20482	C2	C	A	979	236.200	115.681	29.821	1.00	56.01	A16S
ATOM	20483	O2	C	A	979	236.353	115.446	31.036	1.00	56.01	A16S
ATOM	20484	N3	C	A	979	235.998	116.946	29.357	1.00	56.01	A16S
ATOM	20485	C4	C	A	979	235.867	117.164	28.044	1.00	56.01	A16S
ATOM	20486	N4	C	A	979	235.664	118.420	27.627	1.00	56.01	A16S
ATOM	20487	C5	C	A	979	235.936	116.105	27.099	1.00	56.01	A16S
ATOM	20488	C2*	C	A	979	235.108	112.652	29.960	1.00	86.89	A16S
ATOM	20489	O2*	C	A	979	235.421	111.788	31.042	1.00	86.89	A16S
ATOM	20490	C3*	C	A	979	234.556	111.918	28.737	1.00	86.89	A16S
ATOM	20491	O3*	C	A	979	233.609	110.884	29.051	1.00	86.89	A16S
ATOM	20492	P	C	A	980	232.071	111.021	28.557	1.00	78.37	A16S
ATOM	20493	O1P	C	A	980	231.274	110.038	29.377	1.00	72.12	A16S
ATOM	20494	O2P	C	A	980	232.040	110.928	27.074	1.00	72.12	A16S
ATOM	20495	O5*	C	A	980	231.664	112.521	28.942	1.00	78.37	A16S
ATOM	20496	C5*	C	A	980	231.746	112.973	30.311	1.00	78.37	A16S
ATOM	20497	C4*	C	A	980	231.449	114.456	30.424	1.00	78.37	A16S
ATOM	20498	O4*	C	A	980	232.515	115.254	29.851	1.00	78.37	A16S
ATOM	20499	C1*	C	A	980	231.977	116.474	29.363	1.00	78.37	A16S
ATOM	20500	N1	C	A	980	232.324	116.614	27.943	1.00	72.12	A16S
ATOM	20501	C6	C	A	980	232.596	115.509	27.182	1.00	72.12	A16S
ATOM	20502	C2	C	A	980	232.382	117.905	27.374	1.00	72.12	A16S
ATOM	20503	O2	C	A	980	232.087	118.899	28.070	1.00	72.12	A16S
ATOM	20504	N3	C	A	980	232.746	118.029	26.077	1.00	72.12	A16S
ATOM	20505	C4	C	A	980	233.025	116.939	25.351	1.00	72.12	A16S
ATOM	20506	N4	C	A	980	233.396	117.108	24.081	1.00	72.12	A16S
ATOM	20507	C5	C	A	980	232.941	115.625	25.897	1.00	72.12	A16S
ATOM	20508	C2*	C	A	980	230.467	116.459	29.593	1.00	78.37	A16S
ATOM	20509	O2*	C	A	980	230.190	117.220	30.746	1.00	78.37	A16S
ATOM	20510	C3*	C	A	980	230.185	114.967	29.757	1.00	78.37	A16S
ATOM	20511	O3*	C	A	980	229.050	114.740	30.575	1.00	78.37	A16S
ATOM	20512	P	U	A	981	227.729	114.103	29.931	1.00	65.85	A16S
ATOM	20513	O1P	U	A	981	226.603	114.321	30.884	1.00	76.26	A16S
ATOM	20514	O2P	U	A	981	228.069	112.722	29.497	1.00	76.26	A16S
ATOM	20515	O5*	U	A	981	227.448	115.022	28.663	1.00	65.85	A16S
ATOM	20516	C5*	U	A	981	227.104	116.409	28.829	1.00	65.85	A16S
ATOM	20517	C4*	U	A	981	227.169	117.128	27.502	1.00	65.85	A16S
ATOM	20518	O4*	U	A	981	228.543	117.139	27.026	1.00	65.85	A16S
ATOM	20519	C1*	U	A	981	228.561	116.990	25.613	1.00	65.85	A16S
ATOM	20520	N1	U	A	981	229.258	115.731	25.281	1.00	76.26	A16S
ATOM	20521	C6	U	A	981	229.251	114.660	26.153	1.00	76.26	A16S
ATOM	20522	C2	U	A	981	229.915	115.640	24.054	1.00	76.26	A16S
ATOM	20523	O2	U	A	981	229.970	116.562	23.250	1.00	76.26	A16S
ATOM	20524	N3	U	A	981	230.508	114.425	23.806	1.00	76.26	A16S
ATOM	20525	C4	U	A	981	230.521	113.316	24.630	1.00	76.26	A16S
ATOM	20526	O4	U	A	981	231.071	112.282	24.248	1.00	76.26	A16S
ATOM	20527	C5	U	A	981	229.844	113.492	25.876	1.00	76.26	A16S
ATOM	20528	C2*	U	A	981	227.107	116.990	25.131	1.00	65.85	A16S
ATOM	20529	O2*	U	A	981	226.716	118.301	24.760	1.00	65.85	A16S
ATOM	20530	C3*	U	A	981	226.373	116.495	26.369	1.00	65.85	A16S
ATOM	20531	O3*	U	A	981	225.002	116.880	26.371	1.00	65.85	A16S
ATOM	20532	P	U	A	982	223.909	115.920	25.680	1.00	63.32	A16S
ATOM	20533	O1P	U	A	982	224.224	115.898	24.224	1.00	63.99	A16S
ATOM	20534	O2P	U	A	982	222.560	116.366	26.136	1.00	63.99	A16S
ATOM	20535	O5*	U	A	982	224.220	114.469	26.273	1.00	63.32	A16S
ATOM	20536	C5*	U	A	982	223.204	113.444	26.320	1.00	63.32	A16S
ATOM	20537	C4*	U	A	982	223.835	112.076	26.205	1.00	63.32	A16S
ATOM	20538	O4*	U	A	982	224.501	111.983	24.919	1.00	63.32	A16S
ATOM	20539	C1*	U	A	982	225.856	111.619	25.109	1.00	63.32	A16S
ATOM	20540	N1	U	A	982	226.676	112.258	24.062	1.00	63.99	A16S
ATOM	20541	C6	U	A	982	226.387	113.521	23.596	1.00	63.99	A16S
ATOM	20542	C2	U	A	982	227.738	111.533	23.533	1.00	63.99	A16S
ATOM	20543	O2	U	A	982	228.075	110.439	23.950	1.00	63.99	A16S
ATOM	20544	N3	U	A	982	228.395	112.144	22.500	1.00	63.99	A16S
ATOM	20545	C4	U	A	982	228.121	113.380	21.956	1.00	63.99	A16S
ATOM	20546	O4	U	A	982	228.669	113.705	20.901	1.00	63.99	A16S
ATOM	20547	C5	U	A	982	227.057	114.090	22.593	1.00	63.99	A16S
ATOM	20548	C2*	U	A	982	226.203	111.992	26.549	1.00	63.32	A16S
ATOM	20549	O2*	U	A	982	227.246	111.153	27.011	1.00	63.32	A16S
ATOM	20550	C3*	U	A	982	224.881	111.715	27.259	1.00	63.32	A16S
ATOM	20551	O3*	U	A	982	224.838	110.309	27.492	1.00	63.32	A16S
ATOM	20552	P	A	A	983	223.855	109.702	28.606	1.00	63.90	A16S

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ATOM	20553	O1P	A	A	983	223.653	110.768	29.634	1.00	60.57	A16S
ATOM	20554	O2P	A	A	983	224.384	108.363	29.018	1.00	60.57	A16S
ATOM	20555	O5*	A	A	983	222.486	109.477	27.816	1.00	63.90	A16S
ATOM	20556	C5*	A	A	983	222.340	108.387	26.879	1.00	63.90	A16S
ATOM	20557	C4*	A	A	983	221.197	108.658	25.927	1.00	63.90	A16S
ATOM	20558	O4*	A	A	983	221.383	109.960	25.326	1.00	63.90	A16S
ATOM	20559	C1*	A	A	983	220.911	109.938	24.002	1.00	63.90	A16S
ATOM	20560	N9	A	A	983	221.927	110.555	23.156	1.00	60.57	A16S
ATOM	20561	C4	A	A	983	223.116	110.014	22.728	1.00	60.57	A16S
ATOM	20562	N3	A	A	983	223.590	108.781	22.980	1.00	60.57	A16S
ATOM	20563	C2	A	A	983	224.783	108.622	22.422	1.00	60.57	A16S
ATOM	20564	N1	A	A	983	225.500	109.491	21.692	1.00	60.57	A16S
ATOM	20565	C6	A	A	983	224.988	110.718	21.452	1.00	60.57	A16S
ATOM	20566	N6	A	A	983	225.694	111.582	20.716	1.00	60.57	A16S
ATOM	20567	C5	A	A	983	223.739	111.011	21.990	1.00	60.57	A16S
ATOM	20568	N7	A	A	983	222.955	112.152	21.941	1.00	60.57	A16S
ATOM	20569	C8	A	A	983	221.892	111.830	22.641	1.00	60.57	A16S
ATOM	20570	C2*	A	A	983	220.470	108.514	23.652	1.00	63.90	A16S
ATOM	20571	O2*	A	A	983	219.067	108.450	23.675	1.00	63.90	A16S
ATOM	20572	C3*	A	A	983	221.089	107.676	24.769	1.00	63.90	A16S
ATOM	20573	O3*	A	A	983	220.170	106.625	25.104	1.00	63.90	A16S
ATOM	20574	P	C	A	984	220.674	105.314	25.903	1.00	81.00	A16S
ATOM	20575	O1P	C	A	984	219.525	104.376	26.014	1.00	79.60	A16S
ATOM	20576	O2P	C	A	984	221.351	105.773	27.140	1.00	79.60	A16S
ATOM	20577	O5*	C	A	984	221.747	104.647	24.930	1.00	81.00	A16S
ATOM	20578	C5*	C	A	984	221.385	104.290	23.585	1.00	81.00	A16S
ATOM	20579	C4*	C	A	984	222.545	103.635	22.867	1.00	81.00	A16S
ATOM	20580	O4*	C	A	984	223.554	104.610	22.498	1.00	81.00	A16S
ATOM	20581	C1*	C	A	984	224.829	103.983	22.479	1.00	81.00	A16S
ATOM	20582	N1	C	A	984	225.755	104.722	23.367	1.00	79.60	A16S
ATOM	20583	C6	C	A	984	225.288	105.645	24.260	1.00	79.60	A16S
ATOM	20584	C2	C	A	984	227.141	104.456	23.285	1.00	79.60	A16S
ATOM	20585	O2	C	A	984	227.559	103.612	22.464	1.00	79.60	A16S
ATOM	20586	N3	C	A	984	227.986	105.123	24.100	1.00	79.60	A16S
ATOM	20587	C4	C	A	984	227.512	106.014	24.968	1.00	79.60	A16S
ATOM	20588	N4	C	A	984	228.387	106.643	25.753	1.00	79.60	A16S
ATOM	20589	C5	C	A	984	226.121	106.304	25.071	1.00	79.60	A16S
ATOM	20590	C2*	C	A	984	224.638	102.519	22.886	1.00	81.00	A16S
ATOM	20591	O2*	C	A	984	224.566	101.705	21.729	1.00	81.00	A16S
ATOM	20592	C3*	C	A	984	223.310	102.569	23.629	1.00	81.00	A16S
ATOM	20593	O3*	C	A	984	222.655	101.316	23.591	1.00	81.00	A16S
ATOM	20594	P	C	A	985	222.794	100.318	24.839	1.00	77.76	A16S
ATOM	20595	O1P	C	A	985	221.940	99.126	24.556	1.00	69.13	A16S
ATOM	20596	O2P	C	A	985	222.566	101.125	26.077	1.00	69.13	A16S
ATOM	20597	O5*	C	A	985	224.314	99.841	24.793	1.00	77.76	A16S
ATOM	20598	C5*	C	A	985	224.740	98.916	23.785	1.00	77.76	A16S
ATOM	20599	C4*	C	A	985	226.198	98.588	23.945	1.00	77.76	A16S
ATOM	20600	O4*	C	A	985	226.983	99.792	23.787	1.00	77.76	A16S
ATOM	20601	C1*	C	A	985	228.147	99.702	24.585	1.00	77.76	A16S
ATOM	20602	N1	C	A	985	228.192	100.848	25.505	1.00	69.13	A16S
ATOM	20603	C6	C	A	985	227.137	101.711	25.616	1.00	69.13	A16S
ATOM	20604	C2	C	A	985	229.353	101.048	26.267	1.00	69.13	A16S
ATOM	20605	O2	C	A	985	230.289	100.237	26.159	1.00	69.13	A16S
ATOM	20606	N3	C	A	985	229.425	102.113	27.097	1.00	69.13	A16S
ATOM	20607	C4	C	A	985	228.395	102.955	27.188	1.00	69.13	A16S
ATOM	20608	N4	C	A	985	228.512	103.994	28.010	1.00	69.13	A16S
ATOM	20609	C5	C	A	985	227.197	102.770	26.435	1.00	69.13	A16S
ATOM	20610	C2*	C	A	985	228.115	98.362	25.313	1.00	77.76	A16S
ATOM	20611	O2*	C	A	985	228.894	97.447	24.572	1.00	77.76	A16S
ATOM	20612	C3*	C	A	985	226.629	98.037	25.288	1.00	77.76	A16S
ATOM	20613	O3*	C	A	985	226.383	96.643	25.396	1.00	77.76	A16S
ATOM	20614	P	A	A	986	226.070	96.009	26.845	1.00	82.72	A16S
ATOM	20615	O1P	A	A	986	225.668	94.582	26.655	1.00	71.87	A16S
ATOM	20616	O2P	A	A	986	225.145	96.951	27.562	1.00	71.87	A16S
ATOM	20617	O5*	A	A	986	227.486	96.033	27.581	1.00	82.72	A16S
ATOM	20618	C5*	A	A	986	228.591	95.265	27.067	1.00	82.72	A16S
ATOM	20619	C4*	A	A	986	229.836	95.514	27.882	1.00	82.72	A16S
ATOM	20620	O4*	A	A	986	230.300	96.876	27.702	1.00	82.72	A16S
ATOM	20621	C1*	A	A	986	230.984	97.297	28.866	1.00	82.72	A16S
ATOM	20622	N9	A	A	986	230.402	98.550	29.340	1.00	71.87	A16S
ATOM	20623	C4	A	A	986	231.095	99.545	29.989	1.00	71.87	A16S
ATOM	20624	N3	A	A	986	232.399	99.549	30.316	1.00	71.87	A16S
ATOM	20625	C2	A	A	986	232.724	100.683	30.928	1.00	71.87	A16S
ATOM	20626	N1	A	A	986	231.956	101.737	31.222	1.00	71.87	A16S
ATOM	20627	C6	A	A	986	230.650	101.701	30.881	1.00	71.87	A16S
ATOM	20628	N6	A	A	986	229.884	102.751	31.174	1.00	71.87	A16S
ATOM	20629	C5	A	A	986	230.175	100.549	30.233	1.00	71.87	A16S

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ATOM	20630	N7	A	A	986	228.917	100.190	29.766	1.00	71.87	A16S
ATOM	20631	C8	A	A	986	229.104	98.997	29.246	1.00	71.87	A16S
ATOM	20632	C2*	A	A	986	230.898	96.174	29.896	1.00	82.72	A16S
ATOM	20633	O2*	A	A	986	232.111	95.451	29.859	1.00	82.72	A16S
ATOM	20634	C3*	A	A	986	229.708	95.370	29.386	1.00	82.72	A16S
ATOM	20635	O3*	A	A	986	229.763	94.014	29.789	1.00	82.72	A16S
ATOM	20636	P	G	A	987	228.881	93.528	31.040	1.00	93.33	A16S
ATOM	20637	O1P	G	A	987	228.981	92.042	31.063	1.00	71.16	A16S
ATOM	20638	O2P	G	A	987	227.546	94.166	30.965	1.00	71.16	A16S
ATOM	20639	O5*	G	A	987	229.632	94.149	32.305	1.00	93.33	A16S
ATOM	20640	C5*	G	A	987	230.890	93.606	32.751	1.00	93.33	A16S
ATOM	20641	C4*	G	A	987	231.696	94.649	33.495	1.00	93.33	A16S
ATOM	20642	O4*	G	A	987	231.761	95.854	32.690	1.00	93.33	A16S
ATOM	20643	C1*	G	A	987	231.845	96.987	33.534	1.00	93.33	A16S
ATOM	20644	N9	G	A	987	230.713	97.872	33.273	1.00	71.16	A16S
ATOM	20645	C4	G	A	987	230.614	99.168	33.707	1.00	71.16	A16S
ATOM	20646	N3	G	A	987	231.555	99.833	34.411	1.00	71.16	A16S
ATOM	20647	C2	G	A	987	231.171	101.057	34.708	1.00	71.16	A16S
ATOM	20648	N2	G	A	987	231.989	101.848	35.411	1.00	71.16	A16S
ATOM	20649	N1	G	A	987	229.954	101.593	34.341	1.00	71.16	A16S
ATOM	20650	C6	G	A	987	228.968	100.924	33.615	1.00	71.16	A16S
ATOM	20651	O6	G	A	987	227.904	101.496	33.339	1.00	71.16	A16S
ATOM	20652	C5	G	A	987	229.372	99.604	33.289	1.00	71.16	A16S
ATOM	20653	N7	G	A	987	228.710	98.606	32.584	1.00	71.16	A16S
ATOM	20654	C8	G	A	987	229.544	97.598	32.595	1.00	71.16	A16S
ATOM	20655	C2*	G	A	987	231.832	96.498	34.980	1.00	93.33	A16S
ATOM	20656	O2*	G	A	987	233.163	96.449	35.446	1.00	93.33	A16S
ATOM	20657	C3*	G	A	987	231.165	95.133	34.837	1.00	93.33	A16S
ATOM	20658	O3*	G	A	987	231.499	94.253	35.907	1.00	93.33	A16S
ATOM	20659	P	G	A	988	230.550	94.182	37.210	1.00	96.67	A16S
ATOM	20660	O1P	G	A	988	231.057	93.040	38.020	1.00	81.35	A16S
ATOM	20661	O2P	G	A	988	229.120	94.198	36.784	1.00	81.35	A16S
ATOM	20662	O5*	G	A	988	230.863	95.544	37.983	1.00	96.67	A16S
ATOM	20663	C5*	G	A	988	232.129	95.730	38.646	1.00	96.67	A16S
ATOM	20664	C4*	G	A	988	232.170	97.050	39.384	1.00	96.67	A16S
ATOM	20665	O4*	G	A	988	232.195	98.149	38.436	1.00	96.67	A16S
ATOM	20666	C1*	G	A	988	231.534	99.279	38.995	1.00	96.67	A16S
ATOM	20667	N9	G	A	988	230.360	99.594	38.180	1.00	81.35	A16S
ATOM	20668	C4	G	A	988	229.715	100.808	38.123	1.00	81.35	A16S
ATOM	20669	N3	G	A	988	230.077	101.925	38.786	1.00	81.35	A16S
ATOM	20670	C2	G	A	988	229.252	102.929	38.549	1.00	81.35	A16S
ATOM	20671	N2	G	A	988	229.470	104.122	39.133	1.00	81.35	A16S
ATOM	20672	N1	G	A	988	228.156	102.843	37.722	1.00	81.35	A16S
ATOM	20673	C6	G	A	988	227.764	101.705	37.024	1.00	81.35	A16S
ATOM	20674	O6	G	A	988	226.760	101.741	36.299	1.00	81.35	A16S
ATOM	20675	C5	G	A	988	228.642	100.616	37.274	1.00	81.35	A16S
ATOM	20676	N7	G	A	988	228.619	99.313	36.796	1.00	81.35	A16S
ATOM	20677	C8	G	A	988	229.657	98.745	37.352	1.00	81.35	A16S
ATOM	20678	C2*	G	A	988	231.101	98.901	40.412	1.00	96.67	A16S
ATOM	20679	O2*	G	A	988	232.054	99.338	41.367	1.00	96.67	A16S
ATOM	20680	C3*	G	A	988	231.002	97.385	40.299	1.00	96.67	A16S
ATOM	20681	O3*	G	A	988	231.040	96.751	41.567	1.00	96.67	A16S
ATOM	20682	P	C	A	989	229.659	96.299	42.257	1.00	113.68	A16S
ATOM	20683	O1P	C	A	989	230.029	95.618	43.522	1.00	91.95	A16S
ATOM	20684	O2P	C	A	989	228.861	95.569	41.243	1.00	91.95	A16S
ATOM	20685	O5*	C	A	989	228.920	97.675	42.602	1.00	113.68	A16S
ATOM	20686	C5*	C	A	989	229.459	98.548	43.613	1.00	113.68	A16S
ATOM	20687	C4*	C	A	989	228.795	99.912	43.587	1.00	113.68	A16S
ATOM	20688	O4*	C	A	989	228.883	100.487	42.256	1.00	113.68	A16S
ATOM	20689	C1*	C	A	989	227.832	101.428	42.076	1.00	113.68	A16S
ATOM	20690	N1	C	A	989	226.980	101.036	40.935	1.00	91.95	A16S
ATOM	20691	C6	C	A	989	226.845	99.726	40.553	1.00	91.95	A16S
ATOM	20692	C2	C	A	989	226.264	102.042	40.269	1.00	91.95	A16S
ATOM	20693	O2	C	A	989	226.437	103.226	40.606	1.00	91.95	A16S
ATOM	20694	N3	C	A	989	225.405	101.701	39.283	1.00	91.95	A16S
ATOM	20695	C4	C	A	989	225.254	100.419	38.943	1.00	91.95	A16S
ATOM	20696	N4	C	A	989	224.372	100.130	37.985	1.00	91.95	A16S
ATOM	20697	C5	C	A	989	225.997	99.376	39.574	1.00	91.95	A16S
ATOM	20698	C2*	C	A	989	226.987	101.420	43.346	1.00	113.68	A16S
ATOM	20699	O2*	C	A	989	227.369	102.503	44.174	1.00	113.68	A16S
ATOM	20700	C3*	C	A	989	227.315	100.047	43.926	1.00	113.68	A16S
ATOM	20701	O3*	C	A	989	227.019	100.016	45.318	1.00	113.68	A16S
ATOM	20702	P	C	A	990	225.509	99.714	45.803	1.00	107.31	A16S
ATOM	20703	O1P	C	A	990	225.562	99.603	47.283	1.00	102.40	A16S
ATOM	20704	O2P	C	A	990	224.957	98.588	45.001	1.00	102.40	A16S
ATOM	20705	O5*	C	A	990	224.689	101.033	45.425	1.00	107.31	A16S
ATOM	20706	C5*	C	A	990	224.990	102.304	46.045	1.00	107.31	A16S

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ATOM	20707	C4*	C	A	990	223.944	103.340	45.683	1.00107.31	A16S
ATOM	20708	O4*	C	A	990	223.986	103.615	44.255	1.00107.31	A16S
ATOM	20709	C1*	C	A	990	222.676	103.915	43.783	1.00107.31	A16S
ATOM	20710	N1	C	A	990	222.278	102.918	42.751	1.00102.40	A16S
ATOM	20711	C6	C	A	990	222.830	101.663	42.730	1.00102.40	A16S
ATOM	20712	C2	C	A	990	221.301	103.275	41.793	1.00102.40	A16S
ATOM	20713	O2	C	A	990	220.822	104.423	41.808	1.00102.40	A16S
ATOM	20714	N3	C	A	990	220.910	102.356	40.876	1.00102.40	A16S
ATOM	20715	C4	C	A	990	221.453	101.134	40.878	1.00102.40	A16S
ATOM	20716	N4	C	A	990	221.032	100.264	39.961	1.00102.40	A16S
ATOM	20717	C5	C	A	990	222.450	100.751	41.820	1.00102.40	A16S
ATOM	20718	C2*	C	A	990	221.737	103.893	44.992	1.00107.31	A16S
ATOM	20719	O2*	C	A	990	221.569	105.214	45.477	1.00107.31	A16S
ATOM	20720	C3*	C	A	990	222.490	102.972	45.950	1.00107.31	A16S
ATOM	20721	O3*	C	A	990	222.102	103.157	47.310	1.00107.31	A16S
ATOM	20722	P	U	A	991	221.538	101.904	48.155	1.00141.07	A16S
ATOM	20723	O1P	U	A	991	222.482	101.695	49.280	1.00131.06	A16S
ATOM	20724	O2P	U	A	991	221.218	100.772	47.240	1.00131.06	A16S
ATOM	20725	O5*	U	A	991	220.178	102.440	48.781	1.00141.07	A16S
ATOM	20726	C5*	U	A	991	218.899	102.013	48.277	1.00141.07	A16S
ATOM	20727	C4*	U	A	991	218.346	103.056	47.342	1.00141.07	A16S
ATOM	20728	O4*	U	A	991	219.007	102.946	46.062	1.00141.07	A16S
ATOM	20729	C1*	U	A	991	218.105	103.299	45.031	1.00141.07	A16S
ATOM	20730	N1	U	A	991	218.102	102.236	44.007	1.00131.06	A16S
ATOM	20731	C6	U	A	991	218.496	100.948	44.308	1.00131.06	A16S
ATOM	20732	C2	U	A	991	217.719	102.575	42.709	1.00131.06	A16S
ATOM	20733	O2	U	A	991	217.326	103.687	42.391	1.00131.06	A16S
ATOM	20734	N3	U	A	991	217.813	101.555	41.794	1.00131.06	A16S
ATOM	20735	C4	U	A	991	218.226	100.261	42.027	1.00131.06	A16S
ATOM	20736	O4	U	A	991	218.307	99.475	41.084	1.00131.06	A16S
ATOM	20737	C5	U	A	991	218.572	99.979	43.386	1.00131.06	A16S
ATOM	20738	C2*	U	A	991	216.762	103.661	45.674	1.00141.07	A16S
ATOM	20739	O2*	U	A	991	216.714	105.068	45.812	1.00141.07	A16S
ATOM	20740	C3*	U	A	991	216.858	102.975	47.034	1.00141.07	A16S
ATOM	20741	O3*	U	A	991	216.189	103.706	48.068	1.00141.07	A16S
ATOM	20742	P	U	A	992	214.592	103.940	48.025	1.00 98.90	A16S
ATOM	20743	O1P	U	A	992	213.950	102.871	48.839	1.00144.13	A16S
ATOM	20744	O2P	U	A	992	214.149	104.155	46.626	1.00144.13	A16S
ATOM	20745	O5*	U	A	992	214.429	105.329	48.788	1.00 98.90	A16S
ATOM	20746	C5*	U	A	992	215.359	106.395	48.539	1.00 98.90	A16S
ATOM	20747	C4*	U	A	992	214.624	107.650	48.157	1.00 98.90	A16S
ATOM	20748	O4*	U	A	992	213.486	107.285	47.335	1.00 98.90	A16S
ATOM	20749	C1*	U	A	992	212.461	108.247	47.503	1.00 98.90	A16S
ATOM	20750	N1	U	A	992	211.142	107.589	47.538	1.00144.13	A16S
ATOM	20751	C6	U	A	992	211.015	106.225	47.699	1.00144.13	A16S
ATOM	20752	C2	U	A	992	210.012	108.395	47.374	1.00144.13	A16S
ATOM	20753	O2	U	A	992	210.062	109.614	47.268	1.00144.13	A16S
ATOM	20754	N3	U	A	992	208.819	107.720	47.344	1.00144.13	A16S
ATOM	20755	C4	U	A	992	208.629	106.361	47.471	1.00144.13	A16S
ATOM	20756	O4	U	A	992	207.490	105.900	47.361	1.00144.13	A16S
ATOM	20757	C5	U	A	992	209.831	105.602	47.671	1.00144.13	A16S
ATOM	20758	C2*	U	A	992	212.828	109.177	48.663	1.00 98.90	A16S
ATOM	20759	O2*	U	A	992	213.082	110.459	48.129	1.00 98.90	A16S
ATOM	20760	C3*	U	A	992	214.018	108.449	49.301	1.00 98.90	A16S
ATOM	20761	O3*	U	A	992	215.006	109.261	49.979	1.00 98.90	A16S
ATOM	20762	P	G	A	993	215.766	110.473	49.213	1.00157.66	A16S
ATOM	20763	O1P	G	A	993	216.982	110.758	50.016	1.00 86.41	A16S
ATOM	20764	O2P	G	A	993	214.841	111.590	48.901	1.00 86.41	A16S
ATOM	20765	O5*	G	A	993	216.266	109.803	47.854	1.00157.66	A16S
ATOM	20766	C5*	G	A	993	216.363	110.552	46.621	1.00157.66	A16S
ATOM	20767	C4*	G	A	993	217.131	109.750	45.593	1.00157.66	A16S
ATOM	20768	O4*	G	A	993	216.539	108.432	45.491	1.00157.66	A16S
ATOM	20769	C1*	G	A	993	216.677	107.954	44.170	1.00157.66	A16S
ATOM	20770	N9	G	A	993	215.422	107.326	43.750	1.00 86.41	A16S
ATOM	20771	C4	G	A	993	214.149	107.865	43.752	1.00 86.41	A16S
ATOM	20772	N3	G	A	993	213.811	109.128	44.102	1.00 86.41	A16S
ATOM	20773	C2	G	A	993	212.494	109.323	44.043	1.00 86.41	A16S
ATOM	20774	N2	G	A	993	211.973	110.525	44.370	1.00 86.41	A16S
ATOM	20775	N1	G	A	993	211.590	108.355	43.663	1.00 86.41	A16S
ATOM	20776	C6	G	A	993	211.920	107.053	43.296	1.00 86.41	A16S
ATOM	20777	O6	G	A	993	211.030	106.254	42.978	1.00 86.41	A16S
ATOM	20778	C5	G	A	993	213.317	106.831	43.355	1.00 86.41	A16S
ATOM	20779	N7	G	A	993	214.049	105.687	43.075	1.00 86.41	A16S
ATOM	20780	C8	G	A	993	215.286	106.027	43.312	1.00 86.41	A16S
ATOM	20781	C2*	G	A	993	217.323	109.039	43.302	1.00157.66	A16S
ATOM	20782	O2*	G	A	993	218.663	108.659	43.067	1.00157.66	A16S
ATOM	20783	C3*	G	A	993	217.150	110.291	44.169	1.00157.66	A16S

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ATOM	20784	O3*	G	A	993	218.126	111.349	44.007	1.00157.66	A16S
ATOM	20785	P	A	A	994	219.719	111.054	44.137	1.00100.92	A16S
ATOM	20786	O1P	A	A	994	220.241	110.539	42.853	1.00 93.91	A16S
ATOM	20787	O2P	A	A	994	219.996	110.299	45.384	1.00 93.91	A16S
ATOM	20788	O5*	A	A	994	220.339	112.507	44.321	1.00100.92	A16S
ATOM	20789	C5*	A	A	994	221.675	112.813	43.879	1.00100.92	A16S
ATOM	20790	C4*	A	A	994	221.625	113.782	42.718	1.00100.92	A16S
ATOM	20791	O4*	A	A	994	221.502	113.063	41.464	1.00100.92	A16S
ATOM	20792	C1*	A	A	994	220.648	113.779	40.578	1.00100.92	A16S
ATOM	20793	N9	A	A	994	219.498	112.920	40.244	1.00 93.91	A16S
ATOM	20794	C4	A	A	994	218.337	113.297	39.604	1.00 93.91	A16S
ATOM	20795	N3	A	A	994	218.009	114.522	39.162	1.00 93.91	A16S
ATOM	20796	C2	A	A	994	216.817	114.503	38.569	1.00 93.91	A16S
ATOM	20797	N1	A	A	994	215.977	113.476	38.383	1.00 93.91	A16S
ATOM	20798	C6	A	A	994	216.335	112.258	38.841	1.00 93.91	A16S
ATOM	20799	N6	A	A	994	215.499	111.233	38.652	1.00 93.91	A16S
ATOM	20800	C5	A	A	994	217.577	112.143	39.490	1.00 93.91	A16S
ATOM	20801	N7	A	A	994	218.233	111.061	40.057	1.00 93.91	A16S
ATOM	20802	C8	A	A	994	219.361	111.569	40.488	1.00 93.91	A16S
ATOM	20803	C2*	A	A	994	220.276	115.100	41.261	1.00100.92	A16S
ATOM	20804	O2*	A	A	994	221.155	116.129	40.838	1.00100.92	A16S
ATOM	20805	C3*	A	A	994	220.438	114.732	42.732	1.00100.92	A16S
ATOM	20806	O3*	A	A	994	220.640	115.839	43.592	1.00100.92	A16S
ATOM	20807	P	C	A	995	219.412	116.380	44.480	1.00113.07	A16S
ATOM	20808	O1P	C	A	995	219.964	116.943	45.738	1.00 83.28	A16S
ATOM	20809	O2P	C	A	995	218.358	115.324	44.554	1.00 83.28	A16S
ATOM	20810	O5*	C	A	995	218.868	117.602	43.621	1.00113.07	A16S
ATOM	20811	C5*	C	A	995	217.613	118.188	43.926	1.00113.07	A16S
ATOM	20812	C4*	C	A	995	216.946	118.670	42.671	1.00113.07	A16S
ATOM	20813	O4*	C	A	995	217.050	117.664	41.632	1.00113.07	A16S
ATOM	20814	C1*	C	A	995	215.807	117.539	40.955	1.00113.07	A16S
ATOM	20815	N1	C	A	995	215.299	116.160	41.187	1.00 83.28	A16S
ATOM	20816	C6	C	A	995	216.136	115.191	41.675	1.00 83.28	A16S
ATOM	20817	C2	C	A	995	213.953	115.843	40.895	1.00 83.28	A16S
ATOM	20818	O2	C	A	995	213.192	116.729	40.473	1.00 83.28	A16S
ATOM	20819	N3	C	A	995	213.518	114.575	41.087	1.00 83.28	A16S
ATOM	20820	C4	C	A	995	214.352	113.642	41.554	1.00 83.28	A16S
ATOM	20821	N4	C	A	995	213.876	112.402	41.722	1.00 83.28	A16S
ATOM	20822	C5	C	A	995	215.710	113.934	41.870	1.00 83.28	A16S
ATOM	20823	C2*	C	A	995	214.896	118.654	41.478	1.00113.07	A16S
ATOM	20824	O2*	C	A	995	215.010	119.817	40.678	1.00113.07	A16S
ATOM	20825	C3*	C	A	995	215.462	118.864	42.868	1.00113.07	A16S
ATOM	20826	O3*	C	A	995	215.170	120.115	43.443	1.00113.07	A16S
ATOM	20827	P	A	A	996	214.281	120.154	44.771	1.00147.59	A16S
ATOM	20828	O1P	A	A	996	214.332	121.542	45.310	1.00 73.60	A16S
ATOM	20829	O2P	A	A	996	214.716	119.002	45.625	1.00 73.60	A16S
ATOM	20830	O5*	A	A	996	212.813	119.845	44.236	1.00147.59	A16S
ATOM	20831	C5*	A	A	996	212.184	120.709	43.273	1.00147.59	A16S
ATOM	20832	C4*	A	A	996	210.698	120.471	43.263	1.00147.59	A16S
ATOM	20833	O4*	A	A	996	210.398	119.217	42.610	1.00147.59	A16S
ATOM	20834	C1*	A	A	996	209.283	118.614	43.241	1.00147.59	A16S
ATOM	20835	N9	A	A	996	209.679	117.294	43.718	1.00 73.60	A16S
ATOM	20836	C4	A	A	996	208.835	116.219	43.873	1.00 73.60	A16S
ATOM	20837	N3	A	A	996	207.507	116.184	43.645	1.00 73.60	A16S
ATOM	20838	C2	A	A	996	207.017	114.967	43.887	1.00 73.60	A16S
ATOM	20839	N1	A	A	996	207.655	113.858	44.296	1.00 73.60	A16S
ATOM	20840	C6	A	A	996	208.990	113.923	44.515	1.00 73.60	A16S
ATOM	20841	N6	A	A	996	209.627	112.812	44.912	1.00 73.60	A16S
ATOM	20842	C5	A	A	996	209.632	115.171	44.303	1.00 73.60	A16S
ATOM	20843	N7	A	A	996	210.953	115.586	44.439	1.00 73.60	A16S
ATOM	20844	C8	A	A	996	210.926	116.851	44.086	1.00 73.60	A16S
ATOM	20845	C2*	A	A	996	208.820	119.522	44.377	1.00147.59	A16S
ATOM	20846	O2*	A	A	996	207.710	120.289	43.956	1.00147.59	A16S
ATOM	20847	C3*	A	A	996	210.073	120.344	44.640	1.00147.59	A16S
ATOM	20848	O3*	A	A	996	209.782	121.609	45.190	1.00147.59	A16S
ATOM	20849	P	U	A	997	209.807	121.801	46.779	1.00138.93	A16S
ATOM	20850	O1P	U	A	997	209.911	123.273	46.977	1.00 76.99	A16S
ATOM	20851	O2P	U	A	997	210.828	120.890	47.380	1.00 76.99	A16S
ATOM	20852	O5*	U	A	997	208.375	121.290	47.252	1.00138.93	A16S
ATOM	20853	C5*	U	A	997	207.203	122.102	47.080	1.00138.93	A16S
ATOM	20854	C4*	U	A	997	205.969	121.311	47.434	1.00138.93	A16S
ATOM	20855	O4*	U	A	997	205.838	120.201	46.503	1.00138.93	A16S
ATOM	20856	C1*	U	A	997	205.281	119.079	47.171	1.00138.93	A16S
ATOM	20857	N1	U	A	997	206.269	117.988	47.191	1.00 76.99	A16S
ATOM	20858	C6	U	A	997	207.626	118.238	47.239	1.00 76.99	A16S
ATOM	20859	C2	U	A	997	205.784	116.682	47.207	1.00 76.99	A16S
ATOM	20860	O2	U	A	997	204.595	116.404	47.121	1.00 76.99	A16S

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ATOM	20861	N3	U	A	997	206.743	115.711	47.332	1.00	76.99	A16S
ATOM	20862	C4	U	A	997	208.104	115.894	47.432	1.00	76.99	A16S
ATOM	20863	O4	U	A	997	208.821	114.919	47.674	1.00	76.99	A16S
ATOM	20864	C5	U	A	997	208.534	117.266	47.359	1.00	76.99	A16S
ATOM	20865	C2*	U	A	997	204.984	119.499	48.610	1.00138.93		A16S
ATOM	20866	O2*	U	A	997	203.634	119.892	48.756	1.00138.93		A16S
ATOM	20867	C3*	U	A	997	205.972	120.640	48.802	1.00138.93		A16S
ATOM	20868	O3*	U	A	997	205.619	121.481	49.892	1.00138.93		A16S
ATOM	20869	P	G	A	998	206.143	121.113	51.372	1.00122.64		A16S
ATOM	20870	O1P	G	A	998	205.666	122.188	52.280	1.00146.60		A16S
ATOM	20871	O2P	G	A	998	207.595	120.801	51.304	1.00146.60		A16S
ATOM	20872	O5*	G	A	998	205.374	119.765	51.741	1.00122.64		A16S
ATOM	20873	C5*	G	A	998	203.944	119.757	51.838	1.00122.64		A16S
ATOM	20874	C4*	G	A	998	203.407	118.345	51.852	1.00122.64		A16S
ATOM	20875	O4*	G	A	998	203.946	117.604	50.725	1.00122.64		A16S
ATOM	20876	C1*	G	A	998	203.964	116.220	51.037	1.00122.64		A16S
ATOM	20877	N9	G	A	998	205.323	115.698	50.914	1.00146.60		A16S
ATOM	20878	C4	G	A	998	205.671	114.366	50.989	1.00146.60		A16S
ATOM	20879	N3	G	A	998	204.815	113.333	51.166	1.00146.60		A16S
ATOM	20880	C2	G	A	998	205.442	112.171	51.211	1.00146.60		A16S
ATOM	20881	N2	G	A	998	204.739	111.044	51.376	1.00146.60		A16S
ATOM	20882	N1	G	A	998	206.804	112.027	51.094	1.00146.60		A16S
ATOM	20883	C6	G	A	998	207.708	113.070	50.910	1.00146.60		A16S
ATOM	20884	O6	G	A	998	208.921	112.824	50.813	1.00146.60		A16S
ATOM	20885	C5	G	A	998	207.043	114.337	50.858	1.00146.60		A16S
ATOM	20886	N7	G	A	998	207.549	115.623	50.694	1.00146.60		A16S
ATOM	20887	C8	G	A	998	206.495	116.396	50.730	1.00146.60		A16S
ATOM	20888	C2*	G	A	998	203.465	116.063	52.471	1.00122.64		A16S
ATOM	20889	O2*	G	A	998	202.097	115.700	52.443	1.00122.64		A16S
ATOM	20890	C3*	G	A	998	203.723	117.453	53.045	1.00122.64		A16S
ATOM	20891	O3*	G	A	998	202.905	117.706	54.189	1.00122.64		A16S
ATOM	20892	P	C	A	999	203.386	117.192	55.643	1.00133.56		A16S
ATOM	20893	O1P	C	A	999	202.448	117.775	56.636	1.00140.95		A16S
ATOM	20894	O2P	C	A	999	204.847	117.434	55.785	1.00140.95		A16S
ATOM	20895	O5*	C	A	999	203.151	115.615	55.605	1.00133.56		A16S
ATOM	20896	C5*	C	A	999	201.831	115.077	55.416	1.00133.56		A16S
ATOM	20897	C4*	C	A	999	201.819	113.582	55.640	1.00133.56		A16S
ATOM	20898	O4*	C	A	999	202.505	112.893	54.563	1.00133.56		A16S
ATOM	20899	C1*	C	A	999	203.052	111.679	55.055	1.00133.56		A16S
ATOM	20900	N1	C	A	999	204.497	111.624	54.757	1.00140.95		A16S
ATOM	20901	C6	C	A	999	205.266	112.757	54.737	1.00140.95		A16S
ATOM	20902	C2	C	A	999	205.081	110.369	54.504	1.00140.95		A16S
ATOM	20903	O2	C	A	999	204.363	109.354	54.520	1.00140.95		A16S
ATOM	20904	N3	C	A	999	206.411	110.296	54.251	1.00140.95		A16S
ATOM	20905	C4	C	A	999	207.152	111.408	54.241	1.00140.95		A16S
ATOM	20906	N4	C	A	999	208.460	111.284	53.991	1.00140.95		A16S
ATOM	20907	C5	C	A	999	206.585	112.695	54.488	1.00140.95		A16S
ATOM	20908	C2*	C	A	999	202.761	111.600	56.554	1.00133.56		A16S
ATOM	20909	O2*	C	A	999	201.653	110.747	56.770	1.00133.56		A16S
ATOM	20910	C3*	C	A	999	202.490	113.064	56.900	1.00133.56		A16S
ATOM	20911	O3*	C	A	999	201.658	113.203	58.045	1.00133.56		A16S
ATOM	20912	P	U	A	1000	202.322	113.242	59.510	1.00171.64		A16S
ATOM	20913	O1P	U	A	1000	201.283	113.766	60.432	1.00151.28		A16S
ATOM	20914	O2P	U	A	1000	203.646	113.924	59.432	1.00151.28		A16S
ATOM	20915	O5*	U	A	1000	202.561	111.705	59.855	1.00171.64		A16S
ATOM	20916	C5*	U	A	1000	201.458	110.856	60.229	1.00171.64		A16S
ATOM	20917	C4*	U	A	1000	201.950	109.469	60.559	1.00171.64		A16S
ATOM	20918	O4*	U	A	1000	202.416	108.818	59.347	1.00171.64		A16S
ATOM	20919	C1*	U	A	1000	203.525	107.984	59.648	1.00171.64		A16S
ATOM	20920	N1	U	A	1000	204.702	108.485	58.917	1.00151.28		A16S
ATOM	20921	C6	U	A	1000	204.899	109.838	58.710	1.00151.28		A16S
ATOM	20922	C2	U	A	1000	205.622	107.554	58.455	1.00151.28		A16S
ATOM	20923	O2	U	A	1000	205.483	106.349	58.606	1.00151.28		A16S
ATOM	20924	N3	U	A	1000	206.713	108.091	57.810	1.00151.28		A16S
ATOM	20925	C4	U	A	1000	206.974	109.431	57.581	1.00151.28		A16S
ATOM	20926	O4	U	A	1000	208.013	109.759	56.998	1.00151.28		A16S
ATOM	20927	C5	U	A	1000	205.973	110.326	58.078	1.00151.28		A16S
ATOM	20928	C2*	U	A	1000	203.748	108.040	61.160	1.00171.64		A16S
ATOM	20929	O2*	U	A	1000	203.103	106.951	61.791	1.00171.64		A16S
ATOM	20930	C3*	U	A	1000	203.137	109.391	61.508	1.00171.64		A16S
ATOM	20931	O3*	U	A	1000	202.776	109.502	62.879	1.00171.64		A16S
ATOM	20932	P	A	A	1001	203.821	110.144	63.923	1.00192.56		A16S
ATOM	20933	O1P	A	A	1001	203.082	110.439	65.175	1.00196.69		A16S
ATOM	20934	O2P	A	A	1001	204.571	111.236	63.243	1.00196.69		A16S
ATOM	20935	O5*	A	A	1001	204.844	108.958	64.217	1.00192.56		A16S
ATOM	20936	C5*	A	A	1001	204.383	107.665	64.667	1.00192.56		A16S
ATOM	20937	C4*	A	A	1001	205.434	106.615	64.394	1.00192.56		A16S

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ATOM	20938	O4*	A	A1001	205.641	106.523	62.959	1.00192.56	A16S
ATOM	20939	C1*	A	A1001	207.025	106.369	62.676	1.00192.56	A16S
ATOM	20940	N9	A	A1001	207.485	107.583	61.990	1.00196.69	A16S
ATOM	20941	C4	A	A1001	208.676	107.759	61.324	1.00196.69	A16S
ATOM	20942	N3	A	A1001	209.655	106.856	61.145	1.00196.69	A16S
ATOM	20943	C2	A	A1001	210.664	107.389	60.461	1.00196.69	A16S
ATOM	20944	N1	A	A1001	210.799	108.629	59.971	1.00196.69	A16S
ATOM	20945	C6	A	A1001	209.799	109.513	60.169	1.00196.69	A16S
ATOM	20946	N6	A	A1001	209.934	110.751	59.684	1.00196.69	A16S
ATOM	20947	C5	A	A1001	208.670	109.072	60.879	1.00196.69	A16S
ATOM	20948	N7	A	A1001	207.494	109.710	61.246	1.00196.69	A16S
ATOM	20949	C8	A	A1001	206.826	108.789	61.896	1.00196.69	A16S
ATOM	20950	C2*	A	A1001	207.740	106.173	64.015	1.00192.56	A16S
ATOM	20951	O2*	A	A1001	207.838	104.793	64.317	1.00192.56	A16S
ATOM	20952	C3*	A	A1001	206.813	106.923	64.961	1.00192.56	A16S
ATOM	20953	O3*	A	A1001	206.960	106.528	66.318	1.00192.56	A16S
ATOM	20954	P	G	A1002	207.984	107.327	67.269	1.00197.48	A16S
ATOM	20955	O1P	G	A1002	207.574	107.059	68.671	1.00197.98	A16S
ATOM	20956	O2P	G	A1002	208.097	108.732	66.794	1.00197.98	A16S
ATOM	20957	O5*	G	A1002	209.385	106.615	67.008	1.00197.48	A16S
ATOM	20958	C5*	G	A1002	209.694	105.348	67.619	1.00197.48	A16S
ATOM	20959	C4*	G	A1002	211.125	104.956	67.332	1.00197.48	A16S
ATOM	20960	O4*	G	A1002	211.279	104.687	65.914	1.00197.48	A16S
ATOM	20961	C1*	G	A1002	212.573	105.085	65.490	1.00197.48	A16S
ATOM	20962	N9	G	A1002	212.432	106.124	64.472	1.00197.98	A16S
ATOM	20963	C4	G	A1002	213.397	106.513	63.571	1.00197.98	A16S
ATOM	20964	N3	G	A1002	214.633	105.979	63.450	1.00197.98	A16S
ATOM	20965	C2	G	A1002	215.343	106.580	62.508	1.00197.98	A16S
ATOM	20966	N2	G	A1002	216.597	106.172	62.254	1.00197.98	A16S
ATOM	20967	N1	G	A1002	214.877	107.625	61.746	1.00197.98	A16S
ATOM	20968	C6	G	A1002	213.609	108.192	61.851	1.00197.98	A16S
ATOM	20969	O6	G	A1002	213.292	109.137	61.114	1.00197.98	A16S
ATOM	20970	C5	G	A1002	212.833	107.552	62.859	1.00197.98	A16S
ATOM	20971	N7	G	A1002	211.535	107.798	63.288	1.00197.98	A16S
ATOM	20972	C8	G	A1002	211.338	106.925	64.238	1.00197.98	A16S
ATOM	20973	C2*	G	A1002	213.330	105.603	66.715	1.00197.48	A16S
ATOM	20974	O2*	G	A1002	214.152	104.580	67.242	1.00197.48	A16S
ATOM	20975	C3*	G	A1002	212.185	106.005	67.639	1.00197.48	A16S
ATOM	20976	O3*	G	A1002	212.568	106.013	69.010	1.00197.48	A16S
ATOM	20977	P	G	A1003	212.986	107.401	69.712	1.00197.98	A16S
ATOM	20978	O1P	G	A1003	213.009	107.164	71.181	1.00197.98	A16S
ATOM	20979	O2P	G	A1003	212.123	108.484	69.158	1.00197.98	A16S
ATOM	20980	O5*	G	A1003	214.484	107.659	69.219	1.00197.98	A16S
ATOM	20981	C5*	G	A1003	215.550	106.721	69.515	1.00197.98	A16S
ATOM	20982	C4*	G	A1003	216.711	106.928	68.563	1.00197.98	A16S
ATOM	20983	O4*	G	A1003	216.223	106.767	67.206	1.00197.98	A16S
ATOM	20984	C1*	G	A1003	216.835	107.721	66.356	1.00197.98	A16S
ATOM	20985	N9	G	A1003	215.797	108.623	65.858	1.00197.98	A16S
ATOM	20986	C4	G	A1003	215.831	109.335	64.684	1.00197.98	A16S
ATOM	20987	N3	G	A1003	216.831	109.320	63.782	1.00197.98	A16S
ATOM	20988	C2	G	A1003	216.578	110.104	62.755	1.00197.98	A16S
ATOM	20989	N2	G	A1003	217.477	110.214	61.782	1.00197.98	A16S
ATOM	20990	N1	G	A1003	215.428	110.844	62.614	1.00197.98	A16S
ATOM	20991	C6	G	A1003	214.383	110.879	63.531	1.00197.98	A16S
ATOM	20992	O6	G	A1003	213.393	111.587	63.311	1.00197.98	A16S
ATOM	20993	C5	G	A1003	214.645	110.042	64.647	1.00197.98	A16S
ATOM	20994	N7	G	A1003	213.881	109.783	65.776	1.00197.98	A16S
ATOM	20995	C8	G	A1003	214.601	108.937	66.465	1.00197.98	A16S
ATOM	20996	C2*	G	A1003	217.894	108.460	67.174	1.00197.98	A16S
ATOM	20997	O2*	G	A1003	219.150	107.833	67.011	1.00197.98	A16S
ATOM	20998	C3*	G	A1003	217.341	108.316	68.585	1.00197.98	A16S
ATOM	20999	O3*	G	A1003	218.362	108.441	69.569	1.00197.98	A16S
ATOM	21000	P	G	A1003A	218.549	109.837	70.350	1.00177.14	A16S
ATOM	21001	O1P	G	A1003A	219.221	109.518	71.634	1.00174.75	A16S
ATOM	21002	O2P	G	A1003A	217.247	110.555	70.362	1.00174.75	A16S
ATOM	21003	O5*	G	A1003A	219.565	110.678	69.453	1.00177.14	A16S
ATOM	21004	C5*	G	A1003A	220.988	110.447	69.522	1.00177.14	A16S
ATOM	21005	C4*	G	A1003A	221.664	110.971	68.277	1.00177.14	A16S
ATOM	21006	O4*	G	A1003A	220.943	110.451	67.127	1.00177.14	A16S
ATOM	21007	C1*	G	A1003A	220.922	111.419	66.090	1.00177.14	A16S
ATOM	21008	N9	G	A1003A	219.535	111.815	65.846	1.00174.75	A16S
ATOM	21009	C4	G	A1003A	218.997	112.210	64.641	1.00174.75	A16S
ATOM	21010	N3	G	A1003A	219.649	112.269	63.460	1.00174.75	A16S
ATOM	21011	C2	G	A1003A	218.867	112.701	62.484	1.00174.75	A16S
ATOM	21012	N2	G	A1003A	219.352	112.807	61.235	1.00174.75	A16S
ATOM	21013	N1	G	A1003A	217.553	113.058	62.658	1.00174.75	A16S
ATOM	21014	C6	G	A1003A	216.864	113.014	63.864	1.00174.75	A16S

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ATOM	21015	O6	G	A1003A	215.683	113.375	63.912	1.00174.75	A16S
ATOM	21016	C5	G	A1003A	217.686	112.536	64.917	1.00174.75	A16S
ATOM	21017	N7	G	A1003A	217.397	112.332	66.259	1.00174.75	A16S
ATOM	21018	C8	G	A1003A	218.519	111.901	66.769	1.00174.75	A16S
ATOM	21019	C2*	G	A1003A	221.758	112.609	66.557	1.00177.14	A16S
ATOM	21020	O2*	G	A1003A	223.086	112.496	66.080	1.00177.14	A16S
ATOM	21021	C3*	G	A1003A	221.652	112.481	68.071	1.00177.14	A16S
ATOM	21022	O3*	G	A1003A	222.727	113.155	68.724	1.00177.14	A16S
ATOM	21023	P	A	A1004	222.795	114.769	68.695	1.00175.40	A16S
ATOM	21024	O1P	A	A1004	224.078	115.135	68.041	1.00197.25	A16S
ATOM	21025	O2P	A	A1004	222.501	115.270	70.060	1.00197.25	A16S
ATOM	21026	O5*	A	A1004	221.588	115.200	67.740	1.00175.40	A16S
ATOM	21027	C5*	A	A1004	221.764	116.182	66.693	1.00175.40	A16S
ATOM	21028	C4*	A	A1004	221.264	115.639	65.371	1.00175.40	A16S
ATOM	21029	O4*	A	A1004	219.854	115.297	65.466	1.00175.40	A16S
ATOM	21030	C1*	A	A1004	219.241	115.454	64.196	1.00175.40	A16S
ATOM	21031	N9	A	A1004	218.047	116.301	64.323	1.00197.25	A16S
ATOM	21032	C4	A	A1004	216.926	116.074	65.093	1.00197.25	A16S
ATOM	21033	N3	A	A1004	216.693	115.047	65.928	1.00197.25	A16S
ATOM	21034	C2	A	A1004	215.488	115.155	66.486	1.00197.25	A16S
ATOM	21035	N1	A	A1004	214.558	116.104	66.321	1.00197.25	A16S
ATOM	21036	C6	A	A1004	214.824	117.126	65.479	1.00197.25	A16S
ATOM	21037	N6	A	A1004	213.900	118.076	65.311	1.00197.25	A16S
ATOM	21038	C5	A	A1004	216.066	117.127	64.824	1.00197.25	A16S
ATOM	21039	N7	A	A1004	216.637	118.007	63.920	1.00197.25	A16S
ATOM	21040	C8	A	A1004	217.807	117.481	63.663	1.00197.25	A16S
ATOM	21041	C2*	A	A1004	220.297	115.994	63.224	1.00175.40	A16S
ATOM	21042	O2*	A	A1004	220.812	114.941	62.434	1.00175.40	A16S
ATOM	21043	C3*	A	A1004	221.337	116.578	64.175	1.00175.40	A16S
ATOM	21044	O3*	A	A1004	222.637	116.588	63.594	1.00175.40	A16S
ATOM	21045	P	A	A1005	222.959	117.576	62.365	1.00181.93	A16S
ATOM	21046	O1P	A	A1005	222.281	117.015	61.165	1.00185.89	A16S
ATOM	21047	O2P	A	A1005	224.425	117.807	62.336	1.00185.89	A16S
ATOM	21048	O5*	A	A1005	222.256	118.952	62.759	1.00181.93	A16S
ATOM	21049	C5*	A	A1005	221.199	119.503	61.950	1.00181.93	A16S
ATOM	21050	C4*	A	A1005	221.612	120.845	61.392	1.00181.93	A16S
ATOM	21051	O4*	A	A1005	221.899	121.744	62.493	1.00181.93	A16S
ATOM	21052	C1*	A	A1005	222.925	122.645	62.118	1.00181.93	A16S
ATOM	21053	N9	A	A1005	224.000	122.575	63.112	1.00185.89	A16S
ATOM	21054	C4	A	A1005	224.521	123.635	63.821	1.00185.89	A16S
ATOM	21055	N3	A	A1005	224.157	124.929	63.746	1.00185.89	A16S
ATOM	21056	C2	A	A1005	224.877	125.668	64.586	1.00185.89	A16S
ATOM	21057	N1	A	A1005	225.845	125.294	65.430	1.00185.89	A16S
ATOM	21058	C6	A	A1005	226.188	123.989	65.483	1.00185.89	A16S
ATOM	21059	N6	A	A1005	227.154	123.615	66.326	1.00185.89	A16S
ATOM	21060	C5	A	A1005	225.500	123.098	64.639	1.00185.89	A16S
ATOM	21061	N7	A	A1005	225.601	121.726	64.449	1.00185.89	A16S
ATOM	21062	C8	A	A1005	224.695	121.466	63.537	1.00185.89	A16S
ATOM	21063	C2*	A	A1005	223.356	122.308	60.688	1.00181.93	A16S
ATOM	21064	O2*	A	A1005	222.730	123.202	59.788	1.00181.93	A16S
ATOM	21065	C3*	A	A1005	222.872	120.867	60.533	1.00181.93	A16S
ATOM	21066	O3*	A	A1005	222.581	120.560	59.164	1.00181.93	A16S
ATOM	21067	P	C	A1006	223.580	119.618	58.311	1.00187.99	A16S
ATOM	21068	O1P	C	A1006	223.221	119.790	56.880	1.00197.45	A16S
ATOM	21069	O2P	C	A1006	223.567	118.256	58.903	1.00197.45	A16S
ATOM	21070	O5*	C	A1006	225.031	120.249	58.534	1.00187.99	A16S
ATOM	21071	C5*	C	A1006	225.274	121.659	58.330	1.00187.99	A16S
ATOM	21072	C4*	C	A1006	226.451	122.122	59.165	1.00187.99	A16S
ATOM	21073	O4*	C	A1006	226.291	121.627	60.520	1.00187.99	A16S
ATOM	21074	C1*	C	A1006	227.562	121.354	61.083	1.00187.99	A16S
ATOM	21075	N1	C	A1006	227.578	119.966	61.597	1.00197.45	A16S
ATOM	21076	C6	C	A1006	227.164	118.920	60.818	1.00197.45	A16S
ATOM	21077	C2	C	A1006	228.034	119.732	62.909	1.00197.45	A16S
ATOM	21078	O2	C	A1006	228.400	120.694	63.607	1.00197.45	A16S
ATOM	21079	N3	C	A1006	228.064	118.464	63.381	1.00197.45	A16S
ATOM	21080	C4	C	A1006	227.666	117.452	62.607	1.00197.45	A16S
ATOM	21081	N4	C	A1006	227.727	116.219	63.113	1.00197.45	A16S
ATOM	21082	C5	C	A1006	227.192	117.660	61.278	1.00197.45	A16S
ATOM	21083	C2*	C	A1006	228.633	121.670	60.033	1.00187.99	A16S
ATOM	21084	O2*	C	A1006	229.200	122.936	60.306	1.00187.99	A16S
ATOM	21085	C3*	C	A1006	227.829	121.635	58.734	1.00187.99	A16S
ATOM	21086	O3*	C	A1006	228.387	122.514	57.752	1.00187.99	A16S
ATOM	21087	P	C	A1007	229.590	122.009	56.806	1.00190.49	A16S
ATOM	21088	O1P	C	A1007	229.944	123.144	55.904	1.00131.92	A16S
ATOM	21089	O2P	C	A1007	229.209	120.695	56.217	1.00131.92	A16S
ATOM	21090	O5*	C	A1007	230.807	121.772	57.810	1.00190.49	A16S
ATOM	21091	C5*	C	A1007	231.608	122.875	58.284	1.00190.49	A16S

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ATOM	21092	C4*	C	A1007	232.795	122.368	59.076	1.00190.49	A16S
ATOM	21093	O4*	C	A1007	232.327	121.704	60.280	1.00190.49	A16S
ATOM	21094	C1*	C	A1007	233.187	120.619	60.593	1.00190.49	A16S
ATOM	21095	N1	C	A1007	232.403	119.365	60.592	1.00131.92	A16S
ATOM	21096	C6	C	A1007	231.097	119.345	60.181	1.00131.92	A16S
ATOM	21097	C2	C	A1007	233.030	118.173	61.012	1.00131.92	A16S
ATOM	21098	O2	C	A1007	234.215	118.213	61.397	1.00131.92	A16S
ATOM	21099	N3	C	A1007	232.328	117.015	60.988	1.00131.92	A16S
ATOM	21100	C4	C	A1007	231.058	117.010	60.578	1.00131.92	A16S
ATOM	21101	N4	C	A1007	230.411	115.842	60.572	1.00131.92	A16S
ATOM	21102	C5	C	A1007	230.396	118.203	60.158	1.00131.92	A16S
ATOM	21103	C2*	C	A1007	234.314	120.598	59.556	1.00190.49	A16S
ATOM	21104	O2*	C	A1007	235.463	121.241	60.070	1.00190.49	A16S
ATOM	21105	C3*	C	A1007	233.675	121.335	58.386	1.00190.49	A16S
ATOM	21106	O3*	C	A1007	234.651	121.919	57.530	1.00190.49	A16S
ATOM	21107	P	C	A1008	235.290	121.042	56.342	1.00170.55	A16S
ATOM	21108	O1P	C	A1008	236.092	121.952	55.482	1.00157.88	A16S
ATOM	21109	O2P	C	A1008	234.215	120.219	55.737	1.00157.88	A16S
ATOM	21110	O5*	C	A1008	236.284	120.050	57.088	1.00170.55	A16S
ATOM	21111	C5*	C	A1008	237.509	120.531	57.655	1.00170.55	A16S
ATOM	21112	C4*	C	A1008	238.299	119.384	58.229	1.00170.55	A16S
ATOM	21113	O4*	C	A1008	237.537	118.771	59.300	1.00170.55	A16S
ATOM	21114	C1*	C	A1008	237.812	117.381	59.343	1.00170.55	A16S
ATOM	21115	N1	C	A1008	236.543	116.633	59.276	1.00157.88	A16S
ATOM	21116	C6	C	A1008	235.577	116.960	58.362	1.00157.88	A16S
ATOM	21117	C2	C	A1008	236.336	115.570	60.176	1.00157.88	A16S
ATOM	21118	O2	C	A1008	237.232	115.280	60.991	1.00157.88	A16S
ATOM	21119	N3	C	A1008	235.170	114.888	60.132	1.00157.88	A16S
ATOM	21120	C4	C	A1008	234.233	115.221	59.240	1.00157.88	A16S
ATOM	21121	N4	C	A1008	233.094	114.522	59.241	1.00157.88	A16S
ATOM	21122	C5	C	A1008	234.420	116.288	58.310	1.00157.88	A16S
ATOM	21123	C2*	C	A1008	238.796	117.052	58.219	1.00170.55	A16S
ATOM	21124	O2*	C	A1008	240.098	116.960	58.766	1.00170.55	A16S
ATOM	21125	C3*	C	A1008	238.610	118.240	57.276	1.00170.55	A16S
ATOM	21126	O3*	C	A1008	239.773	118.514	56.493	1.00170.55	A16S
ATOM	21127	P	G	A1009	240.324	117.406	55.464	1.00149.59	A16S
ATOM	21128	O1P	G	A1009	241.446	118.013	54.701	1.00171.49	A16S
ATOM	21129	O2P	G	A1009	239.165	116.828	54.734	1.00171.49	A16S
ATOM	21130	O5*	G	A1009	240.933	116.289	56.423	1.00149.59	A16S
ATOM	21131	C5*	G	A1009	240.955	114.907	56.043	1.00149.59	A16S
ATOM	21132	C4*	G	A1009	241.131	114.037	57.264	1.00149.59	A16S
ATOM	21133	O4*	G	A1009	239.965	114.138	58.125	1.00149.59	A16S
ATOM	21134	C1*	G	A1009	239.697	112.877	58.724	1.00149.59	A16S
ATOM	21135	N9	G	A1009	238.341	112.466	58.355	1.00171.49	A16S
ATOM	21136	C4	G	A1009	237.774	111.213	58.518	1.00171.49	A16S
ATOM	21137	N3	G	A1009	238.369	110.135	59.075	1.00171.49	A16S
ATOM	21138	C2	G	A1009	237.571	109.074	59.076	1.00171.49	A16S
ATOM	21139	N2	G	A1009	237.999	107.915	59.603	1.00171.49	A16S
ATOM	21140	N1	G	A1009	236.296	109.068	58.564	1.00171.49	A16S
ATOM	21141	C6	G	A1009	235.662	110.161	57.983	1.00171.49	A16S
ATOM	21142	O6	G	A1009	234.507	110.044	57.545	1.00171.49	A16S
ATOM	21143	C5	G	A1009	236.503	111.315	57.985	1.00171.49	A16S
ATOM	21144	N7	G	A1009	236.267	112.601	57.518	1.00171.49	A16S
ATOM	21145	C8	G	A1009	237.377	113.247	57.760	1.00171.49	A16S
ATOM	21146	C2*	G	A1009	240.784	111.902	58.258	1.00149.59	A16S
ATOM	21147	O2*	G	A1009	241.793	111.817	59.244	1.00149.59	A16S
ATOM	21148	C3*	G	A1009	241.263	112.556	56.965	1.00149.59	A16S
ATOM	21149	O3*	G	A1009	242.614	112.244	56.643	1.00149.59	A16S
ATOM	21150	P	G	A1010	242.944	111.400	55.314	1.00134.83	A16S
ATOM	21151	O1P	G	A1010	244.388	111.596	55.014	1.00137.00	A16S
ATOM	21152	O2P	G	A1010	241.934	111.747	54.283	1.00137.00	A16S
ATOM	21153	O5*	G	A1010	242.719	109.887	55.770	1.00134.83	A16S
ATOM	21154	C5*	G	A1010	243.494	109.332	56.849	1.00134.83	A16S
ATOM	21155	C4*	G	A1010	242.902	108.026	57.324	1.00134.83	A16S
ATOM	21156	O4*	G	A1010	241.580	108.251	57.879	1.00134.83	A16S
ATOM	21157	C1*	G	A1010	240.775	107.099	57.670	1.00134.83	A16S
ATOM	21158	N9	G	A1010	239.593	107.470	56.895	1.00137.00	A16S
ATOM	21159	C4	G	A1010	238.450	106.713	56.745	1.00137.00	A16S
ATOM	21160	N3	G	A1010	238.219	105.503	57.304	1.00137.00	A16S
ATOM	21161	C2	G	A1010	237.033	105.022	56.969	1.00137.00	A16S
ATOM	21162	N2	G	A1010	236.640	103.827	57.436	1.00137.00	A16S
ATOM	21163	N1	G	A1010	236.143	105.676	56.150	1.00137.00	A16S
ATOM	21164	C6	G	A1010	236.358	106.921	55.563	1.00137.00	A16S
ATOM	21165	O6	G	A1010	235.486	107.422	54.837	1.00137.00	A16S
ATOM	21166	C5	G	A1010	237.630	107.450	55.916	1.00137.00	A16S
ATOM	21167	N7	G	A1010	238.239	108.646	55.556	1.00137.00	A16S
ATOM	21168	C8	G	A1010	239.396	108.616	56.161	1.00137.00	A16S

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ATOM	21169	C2*	G	A1010	241.621	106.067	56.926	1.00134.83	A16S
ATOM	21170	O2*	G	A1010	242.134	105.129	57.852	1.00134.83	A16S
ATOM	21171	C3*	G	A1010	242.687	106.945	56.278	1.00134.83	A16S
ATOM	21172	O3*	G	A1010	243.872	106.220	55.971	1.00134.83	A16S
ATOM	21173	P	G	A1011	243.978	105.437	54.570	1.00130.98	A16S
ATOM	21174	O1P	G	A1011	245.325	104.826	54.495	1.00115.96	A16S
ATOM	21175	O2P	G	A1011	243.535	106.366	53.499	1.00115.96	A16S
ATOM	21176	O5*	G	A1011	242.915	104.256	54.710	1.00130.98	A16S
ATOM	21177	C5*	G	A1011	243.071	103.246	55.731	1.00130.98	A16S
ATOM	21178	C4*	G	A1011	242.042	102.147	55.568	1.00130.98	A16S
ATOM	21179	O4*	G	A1011	240.725	102.606	55.973	1.00130.98	A16S
ATOM	21180	C1*	G	A1011	239.730	101.984	55.168	1.00130.98	A16S
ATOM	21181	N9	G	A1011	238.980	103.031	54.469	1.00115.96	A16S
ATOM	21182	C4	G	A1011	237.780	102.889	53.788	1.00115.96	A16S
ATOM	21183	N3	G	A1011	237.073	101.743	53.638	1.00115.96	A16S
ATOM	21184	C2	G	A1011	235.965	101.932	52.933	1.00115.96	A16S
ATOM	21185	N2	G	A1011	235.142	100.899	52.693	1.00115.96	A16S
ATOM	21186	N1	G	A1011	235.581	103.146	52.413	1.00115.96	A16S
ATOM	21187	C6	G	A1011	236.290	104.338	52.549	1.00115.96	A16S
ATOM	21188	O6	G	A1011	235.855	105.381	52.034	1.00115.96	A16S
ATOM	21189	C5	G	A1011	237.483	104.152	53.307	1.00115.96	A16S
ATOM	21190	N7	G	A1011	238.467	105.064	53.672	1.00115.96	A16S
ATOM	21191	C8	G	A1011	239.330	104.359	54.356	1.00115.96	A16S
ATOM	21192	C2*	G	A1011	240.444	101.013	54.222	1.00130.98	A16S
ATOM	21193	O2*	G	A1011	240.427	99.707	54.770	1.00130.98	A16S
ATOM	21194	C3*	G	A1011	241.844	101.618	54.159	1.00130.98	A16S
ATOM	21195	O3*	G	A1011	242.854	100.693	53.777	1.00130.98	A16S
ATOM	21196	P	U	A1012	243.519	100.816	52.316	1.00149.99	A16S
ATOM	21197	O1P	U	A1012	244.714	99.929	52.273	1.00 87.98	A16S
ATOM	21198	O2P	U	A1012	243.671	102.270	52.008	1.00 87.98	A16S
ATOM	21199	O5*	U	A1012	242.404	100.207	51.352	1.00149.99	A16S
ATOM	21200	C5*	U	A1012	242.029	98.814	51.442	1.00149.99	A16S
ATOM	21201	C4*	U	A1012	240.860	98.513	50.525	1.00149.99	A16S
ATOM	21202	O4*	U	A1012	239.639	99.100	51.055	1.00149.99	A16S
ATOM	21203	C1*	U	A1012	238.806	99.522	49.983	1.00149.99	A16S
ATOM	21204	N1	U	A1012	238.681	100.990	50.029	1.00 87.98	A16S
ATOM	21205	C6	U	A1012	239.720	101.794	50.457	1.00 87.98	A16S
ATOM	21206	C2	U	A1012	237.489	101.548	49.602	1.00 87.98	A16S
ATOM	21207	O2	U	A1012	236.541	100.880	49.232	1.00 87.98	A16S
ATOM	21208	N3	U	A1012	237.447	102.923	49.622	1.00 87.98	A16S
ATOM	21209	C4	U	A1012	238.449	103.781	50.023	1.00 87.98	A16S
ATOM	21210	O4	U	A1012	238.255	105.001	49.990	1.00 87.98	A16S
ATOM	21211	C5	U	A1012	239.647	103.132	50.465	1.00 87.98	A16S
ATOM	21212	C2*	U	A1012	239.488	99.097	48.684	1.00149.99	A16S
ATOM	21213	O2*	U	A1012	239.014	97.832	48.262	1.00149.99	A16S
ATOM	21214	C3*	U	A1012	240.946	99.067	49.112	1.00149.99	A16S
ATOM	21215	O3*	U	A1012	241.760	98.318	48.228	1.00149.99	A16S
ATOM	21216	P	G	A1013	242.540	99.085	47.050	1.00120.42	A16S
ATOM	21217	O1P	G	A1013	243.247	98.045	46.256	1.00114.05	A16S
ATOM	21218	O2P	G	A1013	243.316	100.223	47.636	1.00114.05	A16S
ATOM	21219	O5*	G	A1013	241.366	99.695	46.156	1.00120.42	A16S
ATOM	21220	C5*	G	A1013	240.482	98.835	45.402	1.00120.42	A16S
ATOM	21221	C4*	G	A1013	239.471	99.655	44.627	1.00120.42	A16S
ATOM	21222	O4*	G	A1013	238.611	100.369	45.554	1.00120.42	A16S
ATOM	21223	C1*	G	A1013	238.243	101.621	44.999	1.00120.42	A16S
ATOM	21224	N9	G	A1013	238.770	102.680	45.852	1.00114.05	A16S
ATOM	21225	C4	G	A1013	238.324	103.980	45.903	1.00114.05	A16S
ATOM	21226	N3	G	A1013	237.293	104.494	45.196	1.00114.05	A16S
ATOM	21227	C2	G	A1013	237.117	105.784	45.445	1.00114.05	A16S
ATOM	21228	N2	G	A1013	236.129	106.456	44.829	1.00114.05	A16S
ATOM	21229	N1	G	A1013	237.892	106.511	46.317	1.00114.05	A16S
ATOM	21230	C6	G	A1013	238.956	106.003	47.057	1.00114.05	A16S
ATOM	21231	O6	G	A1013	239.588	106.747	47.820	1.00114.05	A16S
ATOM	21232	C5	G	A1013	239.156	104.617	46.800	1.00114.05	A16S
ATOM	21233	N7	G	A1013	240.094	103.732	47.316	1.00114.05	A16S
ATOM	21234	C8	G	A1013	239.823	102.596	46.733	1.00114.05	A16S
ATOM	21235	C2*	G	A1013	238.853	101.707	43.601	1.00120.42	A16S
ATOM	21236	O2*	G	A1013	237.890	101.312	42.645	1.00120.42	A16S
ATOM	21237	C3*	G	A1013	240.026	100.741	43.717	1.00120.42	A16S
ATOM	21238	O3*	G	A1013	240.450	100.247	42.452	1.00120.42	A16S
ATOM	21239	P	A	A1014	241.672	100.967	41.688	1.00106.88	A16S
ATOM	21240	O1P	A	A1014	241.949	100.160	40.475	1.00 99.29	A16S
ATOM	21241	O2P	A	A1014	242.762	101.222	42.659	1.00 99.29	A16S
ATOM	21242	O5*	A	A1014	241.086	102.384	41.240	1.00106.88	A16S
ATOM	21243	C5*	A	A1014	241.915	103.343	40.541	1.00106.88	A16S
ATOM	21244	C4*	A	A1014	241.123	104.032	39.447	1.00106.88	A16S
ATOM	21245	O4*	A	A1014	240.653	103.035	38.504	1.00106.88	A16S

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ATOM	21246	C1*	A	A1014	239.353	103.371	38.055	1.00106.88	A16S
ATOM	21247	N9	A	A1014	238.465	102.258	38.395	1.00 99.29	A16S
ATOM	21248	C4	A	A1014	237.353	101.832	37.708	1.00 99.29	A16S
ATOM	21249	N3	A	A1014	236.821	102.368	36.595	1.00 99.29	A16S
ATOM	21250	C2	A	A1014	235.757	101.673	36.202	1.00 99.29	A16S
ATOM	21251	N1	A	A1014	235.207	100.579	36.750	1.00 99.29	A16S
ATOM	21252	C6	A	A1014	235.768	100.065	37.868	1.00 99.29	A16S
ATOM	21253	N6	A	A1014	235.233	98.966	38.415	1.00 99.29	A16S
ATOM	21254	C5	A	A1014	236.894	100.719	38.390	1.00 99.29	A16S
ATOM	21255	N7	A	A1014	237.684	100.462	39.498	1.00 99.29	A16S
ATOM	21256	C8	A	A1014	238.594	101.402	39.460	1.00 99.29	A16S
ATOM	21257	C2*	A	A1014	238.968	104.718	38.676	1.00106.88	A16S
ATOM	21258	O2*	A	A1014	239.215	105.747	37.738	1.00106.88	A16S
ATOM	21259	C3*	A	A1014	239.877	104.778	39.904	1.00106.88	A16S
ATOM	21260	O3*	A	A1014	240.204	106.127	40.261	1.00106.88	A16S
ATOM	21261	P	A	A1015	240.041	106.622	41.789	1.00114.97	A16S
ATOM	21262	O1P	A	A1015	241.098	107.643	42.051	1.00 71.79	A16S
ATOM	21263	O2P	A	A1015	239.955	105.406	42.656	1.00 71.79	A16S
ATOM	21264	O5*	A	A1015	238.636	107.378	41.815	1.00114.97	A16S
ATOM	21265	C5*	A	A1015	238.425	108.587	41.051	1.00114.97	A16S
ATOM	21266	C4*	A	A1015	237.071	108.550	40.379	1.00114.97	A16S
ATOM	21267	O4*	A	A1015	236.988	107.336	39.590	1.00114.97	A16S
ATOM	21268	C1*	A	A1015	235.673	106.812	39.648	1.00114.97	A16S
ATOM	21269	N9	A	A1015	235.739	105.467	40.224	1.00 71.79	A16S
ATOM	21270	C4	A	A1015	234.860	104.430	39.998	1.00 71.79	A16S
ATOM	21271	N3	A	A1015	233.751	104.445	39.234	1.00 71.79	A16S
ATOM	21272	C2	A	A1015	233.153	103.251	39.245	1.00 71.79	A16S
ATOM	21273	N1	A	A1015	233.513	102.125	39.879	1.00 71.79	A16S
ATOM	21274	C6	A	A1015	234.638	102.141	40.632	1.00 71.79	A16S
ATOM	21275	N6	A	A1015	235.012	101.013	41.248	1.00 71.79	A16S
ATOM	21276	C5	A	A1015	235.356	103.352	40.715	1.00 71.79	A16S
ATOM	21277	N7	A	A1015	236.510	103.707	41.398	1.00 71.79	A16S
ATOM	21278	C8	A	A1015	236.691	104.966	41.078	1.00 71.79	A16S
ATOM	21279	C2*	A	A1015	234.816	107.789	40.451	1.00114.97	A16S
ATOM	21280	O2*	A	A1015	234.179	108.679	39.556	1.00114.97	A16S
ATOM	21281	C3*	A	A1015	235.863	108.490	41.307	1.00114.97	A16S
ATOM	21282	O3*	A	A1015	235.428	109.795	41.686	1.00114.97	A16S
ATOM	21283	P	A	A1016	234.717	110.021	43.117	1.00101.73	A16S
ATOM	21284	O1P	A	A1016	234.566	111.496	43.279	1.00 63.98	A16S
ATOM	21285	O2P	A	A1016	235.463	109.236	44.142	1.00 63.98	A16S
ATOM	21286	O5*	A	A1016	233.266	109.369	42.976	1.00101.73	A16S
ATOM	21287	C5*	A	A1016	232.224	110.001	42.196	1.00101.73	A16S
ATOM	21288	C4*	A	A1016	231.127	109.005	41.895	1.00101.73	A16S
ATOM	21289	O4*	A	A1016	231.733	107.847	41.269	1.00101.73	A16S
ATOM	21290	C1*	A	A1016	231.093	106.663	41.712	1.00101.73	A16S
ATOM	21291	N9	A	A1016	232.086	105.835	42.395	1.00 63.98	A16S
ATOM	21292	C4	A	A1016	232.013	104.475	42.564	1.00 63.98	A16S
ATOM	21293	N3	A	A1016	231.035	103.656	42.146	1.00 63.98	A16S
ATOM	21294	C2	A	A1016	231.298	102.396	42.490	1.00 63.98	A16S
ATOM	21295	N1	A	A1016	232.347	101.901	43.151	1.00 63.98	A16S
ATOM	21296	C6	A	A1016	233.316	102.755	43.557	1.00 63.98	A16S
ATOM	21297	N6	A	A1016	234.369	102.264	44.219	1.00 63.98	A16S
ATOM	21298	C5	A	A1016	233.155	104.119	43.256	1.00 63.98	A16S
ATOM	21299	N7	A	A1016	233.939	105.235	43.523	1.00 63.98	A16S
ATOM	21300	C8	A	A1016	233.263	106.226	42.996	1.00 63.98	A16S
ATOM	21301	C2*	A	A1016	229.943	107.066	42.630	1.00101.73	A16S
ATOM	21302	O2*	A	A1016	228.731	107.071	41.899	1.00101.73	A16S
ATOM	21303	C3*	A	A1016	230.399	108.440	43.105	1.00101.73	A16S
ATOM	21304	O3*	A	A1016	229.301	109.252	43.481	1.00101.73	A16S
ATOM	21305	P	G	A1017	228.908	109.385	45.033	1.00104.12	A16S
ATOM	21306	O1P	G	A1017	227.567	110.039	45.066	1.00 77.88	A16S
ATOM	21307	O2P	G	A1017	230.053	110.014	45.748	1.00 77.88	A16S
ATOM	21308	O5*	G	A1017	228.773	107.879	45.545	1.00104.12	A16S
ATOM	21309	C5*	G	A1017	227.707	107.034	45.080	1.00104.12	A16S
ATOM	21310	C4*	G	A1017	228.005	105.590	45.400	1.00104.12	A16S
ATOM	21311	O4*	G	A1017	229.303	105.258	44.849	1.00104.12	A16S
ATOM	21312	C1*	G	A1017	229.966	104.341	45.700	1.00104.12	A16S
ATOM	21313	N9	G	A1017	231.192	104.963	46.193	1.00 77.88	A16S
ATOM	21314	C4	G	A1017	232.272	104.294	46.716	1.00 77.88	A16S
ATOM	21315	N3	G	A1017	232.379	102.955	46.858	1.00 77.88	A16S
ATOM	21316	C2	G	A1017	233.534	102.604	47.392	1.00 77.88	A16S
ATOM	21317	N2	G	A1017	233.800	101.309	47.601	1.00 77.88	A16S
ATOM	21318	N1	G	A1017	234.513	103.495	47.760	1.00 77.88	A16S
ATOM	21319	C6	G	A1017	234.427	104.879	47.630	1.00 77.88	A16S
ATOM	21320	O6	G	A1017	235.369	105.592	48.005	1.00 77.88	A16S
ATOM	21321	C5	G	A1017	233.185	105.275	47.053	1.00 77.88	A16S
ATOM	21322	N7	G	A1017	232.686	106.541	46.752	1.00 77.88	A16S

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ATOM	21323	C8	G	A1017	231.504	106.308	46.243	1.00	77.88	A16S
ATOM	21324	C2*	G	A1017	229.017	103.994	46.842	1.00	104.12	A16S
ATOM	21325	O2*	G	A1017	228.339	102.794	46.525	1.00	104.12	A16S
ATOM	21326	C3*	G	A1017	228.118	105.226	46.874	1.00	104.12	A16S
ATOM	21327	O3*	G	A1017	226.846	104.956	47.466	1.00	104.12	A16S
ATOM	21328	P	C	A1018	226.635	105.172	49.051	1.00	126.28	A16S
ATOM	21329	O1P	C	A1018	225.184	104.976	49.313	1.00	94.11	A16S
ATOM	21330	O2P	C	A1018	227.298	106.444	49.468	1.00	94.11	A16S
ATOM	21331	O5*	C	A1018	227.417	103.954	49.718	1.00	126.28	A16S
ATOM	21332	C5*	C	A1018	227.059	102.590	49.416	1.00	126.28	A16S
ATOM	21333	C4*	C	A1018	228.137	101.646	49.898	1.00	126.28	A16S
ATOM	21334	O4*	C	A1018	229.380	101.939	49.206	1.00	126.28	A16S
ATOM	21335	C1*	C	A1018	230.479	101.742	50.085	1.00	126.28	A16S
ATOM	21336	N1	C	A1018	231.176	103.031	50.275	1.00	94.11	A16S
ATOM	21337	C6	C	A1018	230.544	104.220	50.020	1.00	94.11	A16S
ATOM	21338	C2	C	A1018	232.513	103.022	50.721	1.00	94.11	A16S
ATOM	21339	O2	C	A1018	233.062	101.933	50.980	1.00	94.11	A16S
ATOM	21340	N3	C	A1018	233.168	104.201	50.864	1.00	94.11	A16S
ATOM	21341	C4	C	A1018	232.544	105.353	50.591	1.00	94.11	A16S
ATOM	21342	N4	C	A1018	233.241	106.490	50.722	1.00	94.11	A16S
ATOM	21343	C5	C	A1018	231.182	105.391	50.164	1.00	94.11	A16S
ATOM	21344	C2*	C	A1018	229.923	101.202	51.398	1.00	126.28	A16S
ATOM	21345	O2*	C	A1018	229.960	99.789	51.365	1.00	126.28	A16S
ATOM	21346	C3*	C	A1018	228.506	101.753	51.370	1.00	126.28	A16S
ATOM	21347	O3*	C	A1018	227.636	101.024	52.216	1.00	126.28	A16S
ATOM	21348	P	C	A1019	227.353	101.567	53.701	1.00	163.65	A16S
ATOM	21349	O1P	C	A1019	226.223	100.757	54.234	1.00	95.66	A16S
ATOM	21350	O2P	C	A1019	227.239	103.053	53.646	1.00	95.66	A16S
ATOM	21351	O5*	C	A1019	228.687	101.227	54.505	1.00	163.65	A16S
ATOM	21352	C5*	C	A1019	229.073	99.862	54.776	1.00	163.65	A16S
ATOM	21353	C4*	C	A1019	230.415	99.822	55.475	1.00	163.65	A16S
ATOM	21354	O4*	C	A1019	231.431	100.372	54.595	1.00	163.65	A16S
ATOM	21355	C1*	C	A1019	232.390	101.088	55.357	1.00	163.65	A16S
ATOM	21356	N1	C	A1019	232.356	102.506	54.952	1.00	95.66	A16S
ATOM	21357	C6	C	A1019	231.211	103.069	54.448	1.00	95.66	A16S
ATOM	21358	C2	C	A1019	233.519	103.281	55.104	1.00	95.66	A16S
ATOM	21359	O2	C	A1019	234.547	102.750	55.563	1.00	95.66	A16S
ATOM	21360	N3	C	A1019	233.490	104.587	54.753	1.00	95.66	A16S
ATOM	21361	C4	C	A1019	232.365	105.127	54.273	1.00	95.66	A16S
ATOM	21362	N4	C	A1019	232.384	106.427	53.954	1.00	95.66	A16S
ATOM	21363	C5	C	A1019	231.171	104.362	54.102	1.00	95.66	A16S
ATOM	21364	C2*	C	A1019	232.022	100.934	56.830	1.00	163.65	A16S
ATOM	21365	O2*	C	A1019	232.767	99.875	57.396	1.00	163.65	A16S
ATOM	21366	C3*	C	A1019	230.528	100.653	56.744	1.00	163.65	A16S
ATOM	21367	O3*	C	A1019	230.045	99.977	57.894	1.00	163.65	A16S
ATOM	21368	P	U	A1020	229.487	100.833	59.135	1.00	183.79	A16S
ATOM	21369	O1P	U	A1020	229.260	99.862	60.236	1.00	140.37	A16S
ATOM	21370	O2P	U	A1020	228.359	101.677	58.658	1.00	140.37	A16S
ATOM	21371	O5*	U	A1020	230.698	101.800	59.529	1.00	183.79	A16S
ATOM	21372	C5*	U	A1020	231.940	101.263	60.035	1.00	183.79	A16S
ATOM	21373	C4*	U	A1020	232.999	102.344	60.147	1.00	183.79	A16S
ATOM	21374	O4*	U	A1020	233.226	102.957	58.849	1.00	183.79	A16S
ATOM	21375	C1*	U	A1020	233.634	104.307	59.024	1.00	183.79	A16S
ATOM	21376	N1	U	A1020	232.707	105.200	58.306	1.00	140.37	A16S
ATOM	21377	C6	U	A1020	231.416	104.813	58.005	1.00	140.37	A16S
ATOM	21378	C2	U	A1020	233.170	106.472	57.952	1.00	140.37	A16S
ATOM	21379	O2	U	A1020	234.309	106.859	58.178	1.00	140.37	A16S
ATOM	21380	N3	U	A1020	232.246	107.272	57.325	1.00	140.37	A16S
ATOM	21381	C4	U	A1020	230.938	106.950	57.014	1.00	140.37	A16S
ATOM	21382	O4	U	A1020	230.214	107.801	56.491	1.00	140.37	A16S
ATOM	21383	C5	U	A1020	230.542	105.621	57.391	1.00	140.37	A16S
ATOM	21384	C2*	U	A1020	233.664	104.596	60.527	1.00	183.79	A16S
ATOM	21385	O2*	U	A1020	234.993	104.487	61.000	1.00	183.79	A16S
ATOM	21386	C3*	U	A1020	232.730	103.521	61.078	1.00	183.79	A16S
ATOM	21387	O3*	U	A1020	233.020	103.220	62.447	1.00	183.79	A16S
ATOM	21388	P	G	A1021	232.476	104.189	63.620	1.00	189.14	A16S
ATOM	21389	O1P	G	A1021	232.312	103.352	64.836	1.00	176.82	A16S
ATOM	21390	O2P	G	A1021	231.327	104.991	63.124	1.00	176.82	A16S
ATOM	21391	O5*	G	A1021	233.678	105.199	63.880	1.00	189.14	A16S
ATOM	21392	C5*	G	A1021	234.943	104.726	64.370	1.00	189.14	A16S
ATOM	21393	C4*	G	A1021	235.969	105.831	64.321	1.00	189.14	A16S
ATOM	21394	O4*	G	A1021	236.168	106.239	62.942	1.00	189.14	A16S
ATOM	21395	C1*	G	A1021	236.436	107.631	62.889	1.00	189.14	A16S
ATOM	21396	N9	G	A1021	235.411	108.282	62.074	1.00	176.82	A16S
ATOM	21397	C4	G	A1021	235.373	109.616	61.724	1.00	176.82	A16S
ATOM	21398	N3	G	A1021	236.287	110.553	62.063	1.00	176.82	A16S
ATOM	21399	C2	G	A1021	235.972	111.748	61.592	1.00	176.82	A16S

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ATOM	21400	N2	G	A1021	236.775	112.795	61.841	1.00176.82	A16S
ATOM	21401	N1	G	A1021	234.848	112.004	60.845	1.00176.82	A16S
ATOM	21402	C6	G	A1021	233.894	111.057	60.481	1.00176.82	A16S
ATOM	21403	O6	G	A1021	232.918	111.396	59.798	1.00176.82	A16S
ATOM	21404	C5	G	A1021	234.221	109.767	60.983	1.00176.82	A16S
ATOM	21405	N7	G	A1021	233.553	108.557	60.858	1.00176.82	A16S
ATOM	21406	C8	G	A1021	234.294	107.706	61.516	1.00176.82	A16S
ATOM	21407	C2*	G	A1021	236.454	108.157	64.326	1.00189.14	A16S
ATOM	21408	O2*	G	A1021	237.789	108.220	64.791	1.00189.14	A16S
ATOM	21409	C3*	G	A1021	235.606	107.117	65.051	1.00189.14	A16S
ATOM	21410	O3*	G	A1021	235.897	107.055	66.449	1.00189.14	A16S
ATOM	21411	P	G	A1022	234.960	107.845	67.501	1.00180.55	A16S
ATOM	21412	O1P	G	A1022	235.513	107.598	68.858	1.00191.69	A16S
ATOM	21413	O2P	G	A1022	233.538	107.504	67.213	1.00191.69	A16S
ATOM	21414	O5*	G	A1022	235.186	109.386	67.156	1.00180.55	A16S
ATOM	21415	C5*	G	A1022	236.513	109.950	67.093	1.00180.55	A16S
ATOM	21416	C4*	G	A1022	236.482	111.277	66.371	1.00180.55	A16S
ATOM	21417	O4*	G	A1022	235.976	111.078	65.024	1.00180.55	A16S
ATOM	21418	C1*	G	A1022	235.155	112.174	64.647	1.00180.55	A16S
ATOM	21419	N9	G	A1022	233.804	111.674	64.393	1.00191.69	A16S
ATOM	21420	C4	G	A1022	232.703	112.420	64.022	1.00191.69	A16S
ATOM	21421	N3	G	A1022	232.676	113.756	63.818	1.00191.69	A16S
ATOM	21422	C2	G	A1022	231.468	114.179	63.479	1.00191.69	A16S
ATOM	21423	N2	G	A1022	231.253	115.474	63.241	1.00191.69	A16S
ATOM	21424	N1	G	A1022	230.377	113.360	63.349	1.00191.69	A16S
ATOM	21425	C6	G	A1022	230.380	111.985	63.553	1.00191.69	A16S
ATOM	21426	O6	G	A1022	229.335	111.340	63.410	1.00191.69	A16S
ATOM	21427	C5	G	A1022	231.667	111.514	63.918	1.00191.69	A16S
ATOM	21428	N7	G	A1022	232.104	110.228	64.210	1.00191.69	A16S
ATOM	21429	C8	G	A1022	233.372	110.370	64.483	1.00191.69	A16S
ATOM	21430	C2*	G	A1022	235.202	113.196	65.782	1.00180.55	A16S
ATOM	21431	O2*	G	A1022	236.187	114.171	65.494	1.00180.55	A16S
ATOM	21432	C3*	G	A1022	235.548	112.311	66.973	1.00180.55	A16S
ATOM	21433	O3*	G	A1022	236.165	113.034	68.023	1.00180.55	A16S
ATOM	21434	P	G	A1023	235.283	113.521	69.274	1.00176.42	A16S
ATOM	21435	O1P	G	A1023	235.589	112.595	70.394	1.00197.98	A16S
ATOM	21436	O2P	G	A1023	233.871	113.696	68.830	1.00197.98	A16S
ATOM	21437	O5*	G	A1023	235.895	114.951	69.619	1.00176.42	A16S
ATOM	21438	C5*	G	A1023	235.055	116.116	69.713	1.00176.42	A16S
ATOM	21439	C4*	G	A1023	235.726	117.301	69.057	1.00176.42	A16S
ATOM	21440	O4*	G	A1023	235.985	116.999	67.658	1.00176.42	A16S
ATOM	21441	C1*	G	A1023	235.701	118.137	66.853	1.00176.42	A16S
ATOM	21442	N9	G	A1023	234.526	117.821	66.039	1.00197.98	A16S
ATOM	21443	C4	G	A1023	233.766	118.707	65.296	1.00197.98	A16S
ATOM	21444	N3	G	A1023	234.005	120.030	65.140	1.00197.98	A16S
ATOM	21445	C2	G	A1023	233.080	120.616	64.393	1.00197.98	A16S
ATOM	21446	N2	G	A1023	233.169	121.928	64.126	1.00197.98	A16S
ATOM	21447	N1	G	A1023	232.003	119.960	63.851	1.00197.98	A16S
ATOM	21448	C6	G	A1023	231.733	118.602	63.999	1.00197.98	A16S
ATOM	21449	O6	G	A1023	230.725	118.114	63.477	1.00197.98	A16S
ATOM	21450	C5	G	A1023	232.725	117.956	64.787	1.00197.98	A16S
ATOM	21451	N7	G	A1023	232.845	116.624	65.166	1.00197.98	A16S
ATOM	21452	C8	G	A1023	233.927	116.589	65.896	1.00197.98	A16S
ATOM	21453	C2*	G	A1023	235.414	119.297	67.810	1.00176.42	A16S
ATOM	21454	O2*	G	A1023	236.602	120.018	68.076	1.00176.42	A16S
ATOM	21455	C3*	G	A1023	234.869	118.553	69.022	1.00176.42	A16S
ATOM	21456	O3*	G	A1023	234.926	119.291	70.235	1.00176.42	A16S
ATOM	21457	P	G	A1024	233.607	119.400	71.155	1.00197.98	A16S
ATOM	21458	O1P	G	A1024	233.698	120.670	71.924	1.00197.50	A16S
ATOM	21459	O2P	G	A1024	233.445	118.111	71.881	1.00197.50	A16S
ATOM	21460	O5*	G	A1024	232.401	119.522	70.114	1.00197.98	A16S
ATOM	21461	C5*	G	A1024	232.175	120.736	69.359	1.00197.98	A16S
ATOM	21462	C4*	G	A1024	230.886	120.636	68.564	1.00197.98	A16S
ATOM	21463	O4*	G	A1024	231.033	119.678	67.483	1.00197.98	A16S
ATOM	21464	C1*	G	A1024	229.808	118.990	67.277	1.00197.98	A16S
ATOM	21465	N9	G	A1024	230.054	117.552	67.407	1.00197.50	A16S
ATOM	21466	C4	G	A1024	229.173	116.527	67.121	1.00197.50	A16S
ATOM	21467	N3	G	A1024	227.903	116.665	66.679	1.00197.50	A16S
ATOM	21468	C2	G	A1024	227.312	115.493	66.499	1.00197.50	A16S
ATOM	21469	N2	G	A1024	226.045	115.441	66.067	1.00197.50	A16S
ATOM	21470	N1	G	A1024	227.918	114.283	66.731	1.00197.50	A16S
ATOM	21471	C6	G	A1024	229.222	114.114	67.185	1.00197.50	A16S
ATOM	21472	O6	G	A1024	229.673	112.974	67.363	1.00197.50	A16S
ATOM	21473	C5	G	A1024	229.870	115.363	67.385	1.00197.50	A16S
ATOM	21474	N7	G	A1024	231.154	115.646	67.829	1.00197.50	A16S
ATOM	21475	C8	G	A1024	231.218	116.950	67.829	1.00197.50	A16S
ATOM	21476	C2*	G	A1024	228.776	119.562	68.256	1.00197.98	A16S

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ATOM	21477	O2*	G	A1024	227.983	120.523	67.585	1.00197.98	A16S
ATOM	21478	C3*	G	A1024	229.668	120.165	69.342	1.00197.98	A16S
ATOM	21479	O3*	G	A1024	229.053	121.250	70.034	1.00197.98	A16S
ATOM	21480	P	U	A1025	228.359	120.994	71.463	1.00197.98	A16S
ATOM	21481	O1P	U	A1025	227.855	122.317	71.934	1.00134.33	A16S
ATOM	21482	O2P	U	A1025	229.310	120.232	72.317	1.00134.33	A16S
ATOM	21483	O5*	U	A1025	227.125	120.042	71.104	1.00197.98	A16S
ATOM	21484	C5*	U	A1025	225.766	120.451	71.361	1.00197.98	A16S
ATOM	21485	C4*	U	A1025	225.412	121.642	70.500	1.00197.98	A16S
ATOM	21486	O4*	U	A1025	225.356	121.260	69.096	1.00197.98	A16S
ATOM	21487	C1*	U	A1025	224.391	122.062	68.424	1.00197.98	A16S
ATOM	21488	N1	U	A1025	223.377	121.193	67.791	1.00134.33	A16S
ATOM	21489	C6	U	A1025	223.135	119.911	68.245	1.00134.33	A16S
ATOM	21490	C2	U	A1025	222.661	121.709	66.712	1.00134.33	A16S
ATOM	21491	O2	U	A1025	222.825	122.841	66.276	1.00134.33	A16S
ATOM	21492	N3	U	A1025	221.742	120.850	66.165	1.00134.33	A16S
ATOM	21493	C4	U	A1025	221.462	119.565	66.570	1.00134.33	A16S
ATOM	21494	O4	U	A1025	220.626	118.910	65.953	1.00134.33	A16S
ATOM	21495	C5	U	A1025	222.227	119.107	67.687	1.00134.33	A16S
ATOM	21496	C2*	U	A1025	223.797	123.026	69.454	1.00197.98	A16S
ATOM	21497	O2*	U	A1025	224.479	124.265	69.371	1.00197.98	A16S
ATOM	21498	C3*	U	A1025	224.064	122.287	70.763	1.00197.98	A16S
ATOM	21499	O3*	U	A1025	224.112	123.163	71.884	1.00197.98	A16S
ATOM	21500	P	G	A1026	223.168	122.878	73.156	1.00174.39	A16S
ATOM	21501	O1P	G	A1026	223.921	121.976	74.063	1.00192.02	A16S
ATOM	21502	O2P	G	A1026	221.821	122.470	72.670	1.00192.02	A16S
ATOM	21503	O5*	G	A1026	223.042	124.303	73.857	1.00174.39	A16S
ATOM	21504	C5*	G	A1026	221.942	125.181	73.555	1.00174.39	A16S
ATOM	21505	C4*	G	A1026	222.344	126.176	72.494	1.00174.39	A16S
ATOM	21506	O4*	G	A1026	222.828	125.459	71.329	1.00174.39	A16S
ATOM	21507	C1*	G	A1026	222.400	126.117	70.147	1.00174.39	A16S
ATOM	21508	N9	G	A1026	221.541	125.202	69.396	1.00192.02	A16S
ATOM	21509	C4	G	A1026	221.264	125.264	68.049	1.00192.02	A16S
ATOM	21510	N3	G	A1026	221.748	126.178	67.181	1.00192.02	A16S
ATOM	21511	C2	G	A1026	221.301	125.980	65.954	1.00192.02	A16S
ATOM	21512	N2	G	A1026	221.688	126.798	64.963	1.00192.02	A16S
ATOM	21513	N1	G	A1026	220.442	124.966	65.608	1.00192.02	A16S
ATOM	21514	C6	G	A1026	219.930	124.014	66.484	1.00192.02	A16S
ATOM	21515	O6	G	A1026	219.161	123.143	66.066	1.00192.02	A16S
ATOM	21516	C5	G	A1026	220.406	124.212	67.803	1.00192.02	A16S
ATOM	21517	N7	G	A1026	220.152	123.499	68.966	1.00192.02	A16S
ATOM	21518	C8	G	A1026	220.843	124.120	69.883	1.00192.02	A16S
ATOM	21519	C2*	G	A1026	221.674	127.396	70.565	1.00174.39	A16S
ATOM	21520	O2*	G	A1026	222.575	128.488	70.548	1.00174.39	A16S
ATOM	21521	C3*	G	A1026	221.208	127.034	71.968	1.00174.39	A16S
ATOM	21522	O3*	G	A1026	220.983	128.180	72.770	1.00174.39	A16S
ATOM	21523	P	C	A1027	219.480	128.580	73.169	1.00197.98	A16S
ATOM	21524	O1P	C	A1027	219.508	130.002	73.605	1.00186.39	A16S
ATOM	21525	O2P	C	A1027	218.963	127.537	74.095	1.00186.39	A16S
ATOM	21526	O5*	C	A1027	218.672	128.470	71.796	1.00197.98	A16S
ATOM	21527	C5*	C	A1027	218.940	129.368	70.693	1.00197.98	A16S
ATOM	21528	C4*	C	A1027	217.942	129.149	69.572	1.00197.98	A16S
ATOM	21529	O4*	C	A1027	218.185	127.873	68.926	1.00197.98	A16S
ATOM	21530	C1*	C	A1027	216.953	127.314	68.496	1.00197.98	A16S
ATOM	21531	N1	C	A1027	216.819	125.949	69.057	1.00186.39	A16S
ATOM	21532	C6	C	A1027	217.781	125.429	69.879	1.00186.39	A16S
ATOM	21533	C2	C	A1027	215.686	125.182	68.726	1.00186.39	A16S
ATOM	21534	O2	C	A1027	214.814	125.672	67.988	1.00186.39	A16S
ATOM	21535	N3	C	A1027	215.571	123.927	69.222	1.00186.39	A16S
ATOM	21536	C4	C	A1027	216.523	123.432	70.016	1.00186.39	A16S
ATOM	21537	N4	C	A1027	216.372	122.186	70.474	1.00186.39	A16S
ATOM	21538	C5	C	A1027	217.674	124.189	70.376	1.00186.39	A16S
ATOM	21539	C2*	C	A1027	215.830	128.288	68.876	1.00197.98	A16S
ATOM	21540	O2*	C	A1027	215.486	129.062	67.744	1.00197.98	A16S
ATOM	21541	C3*	C	A1027	216.478	129.113	69.985	1.00197.98	A16S
ATOM	21542	O3*	C	A1027	215.941	130.432	70.052	1.00197.98	A16S
ATOM	21543	P	C	A1028	215.347	130.987	71.440	1.00197.83	A16S
ATOM	21544	O1P	C	A1028	215.245	132.464	71.292	1.00174.28	A16S
ATOM	21545	O2P	C	A1028	216.126	130.417	72.569	1.00174.28	A16S
ATOM	21546	O5*	C	A1028	213.881	130.365	71.515	1.00197.83	A16S
ATOM	21547	C5*	C	A1028	212.725	131.141	71.146	1.00197.83	A16S
ATOM	21548	C4*	C	A1028	211.461	130.395	71.502	1.00197.83	A16S
ATOM	21549	O4*	C	A1028	211.451	129.136	70.781	1.00197.83	A16S
ATOM	21550	C1*	C	A1028	210.872	128.126	71.588	1.00197.83	A16S
ATOM	21551	N1	C	A1028	211.874	127.060	71.797	1.00174.28	A16S
ATOM	21552	C6	C	A1028	213.215	127.344	71.813	1.00174.28	A16S
ATOM	21553	C2	C	A1028	211.429	125.739	71.984	1.00174.28	A16S

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ATOM	21554	O2	C	A1028	210.206	125.500	71.964	1.00174.28	A16S
ATOM	21555	N3	C	A1028	212.340	124.758	72.181	1.00174.28	A16S
ATOM	21556	C4	C	A1028	213.643	125.048	72.193	1.00174.28	A16S
ATOM	21557	N4	C	A1028	214.501	124.045	72.388	1.00174.28	A16S
ATOM	21558	C5	C	A1028	214.124	126.379	72.004	1.00174.28	A16S
ATOM	21559	C2*	C	A1028	210.402	128.776	72.892	1.00197.83	A16S
ATOM	21560	O2*	C	A1028	209.026	129.090	72.792	1.00197.83	A16S
ATOM	21561	C3*	C	A1028	211.303	130.005	72.967	1.00197.83	A16S
ATOM	21562	O3*	C	A1028	210.729	131.057	73.745	1.00197.83	A16S
ATOM	21563	P	C	A1029	211.064	131.167	75.319	1.00197.98	A16S
ATOM	21564	O1P	C	A1029	210.598	132.500	75.784	1.00197.98	A16S
ATOM	21565	O2P	C	A1029	212.484	130.776	75.527	1.00197.98	A16S
ATOM	21566	O5*	C	A1029	210.139	130.056	75.992	1.00197.98	A16S
ATOM	21567	C5*	C	A1029	208.699	130.114	75.882	1.00197.98	A16S
ATOM	21568	C4*	C	A1029	208.096	128.752	76.152	1.00197.98	A16S
ATOM	21569	O4*	C	A1029	208.597	127.810	75.166	1.00197.98	A16S
ATOM	21570	C1*	C	A1029	208.800	126.541	75.770	1.00197.98	A16S
ATOM	21571	N1	C	A1029	210.233	126.190	75.661	1.00197.98	A16S
ATOM	21572	C6	C	A1029	211.190	127.163	75.545	1.00197.98	A16S
ATOM	21573	C2	C	A1029	210.606	124.834	75.686	1.00197.98	A16S
ATOM	21574	O2	C	A1029	209.723	123.962	75.789	1.00197.98	A16S
ATOM	21575	N3	C	A1029	211.920	124.510	75.600	1.00197.98	A16S
ATOM	21576	C4	C	A1029	212.841	125.473	75.493	1.00197.98	A16S
ATOM	21577	N4	C	A1029	214.123	125.107	75.418	1.00197.98	A16S
ATOM	21578	C5	C	A1029	212.490	126.853	75.460	1.00197.98	A16S
ATOM	21579	C2*	C	A1029	208.326	126.631	77.223	1.00197.98	A16S
ATOM	21580	O2*	C	A1029	207.004	126.136	77.339	1.00197.98	A16S
ATOM	21581	C3*	C	A1029	208.448	128.127	77.496	1.00197.98	A16S
ATOM	21582	O3*	C	A1029	207.585	128.564	78.543	1.00197.98	A16S
ATOM	21583	P	C	A1030	207.988	128.284	80.077	1.00196.11	A16S
ATOM	21584	O1P	C	A1030	207.041	129.048	80.927	1.00197.98	A16S
ATOM	21585	O2P	C	A1030	209.450	128.502	80.238	1.00197.98	A16S
ATOM	21586	O5*	C	A1030	207.694	126.729	80.270	1.00196.11	A16S
ATOM	21587	C5*	C	A1030	206.378	126.262	80.628	1.00196.11	A16S
ATOM	21588	C4*	C	A1030	206.472	124.968	81.402	1.00196.11	A16S
ATOM	21589	O4*	C	A1030	206.885	123.898	80.511	1.00196.11	A16S
ATOM	21590	C1*	C	A1030	207.725	122.992	81.209	1.00196.11	A16S
ATOM	21591	N1	C	A1030	209.051	122.975	80.554	1.00197.98	A16S
ATOM	21592	C6	C	A1030	209.494	124.055	79.839	1.00197.98	A16S
ATOM	21593	C2	C	A1030	209.866	121.834	80.690	1.00197.98	A16S
ATOM	21594	O2	C	A1030	209.440	120.852	81.326	1.00197.98	A16S
ATOM	21595	N3	C	A1030	211.096	121.835	80.124	1.00197.98	A16S
ATOM	21596	C4	C	A1030	211.519	122.902	79.440	1.00197.98	A16S
ATOM	21597	N4	C	A1030	212.744	122.860	78.907	1.00197.98	A16S
ATOM	21598	C5	C	A1030	210.708	124.061	79.273	1.00197.98	A16S
ATOM	21599	C2*	C	A1030	207.810	123.459	82.666	1.00196.11	A16S
ATOM	21600	O2*	C	A1030	206.877	122.742	83.451	1.00196.11	A16S
ATOM	21601	C3*	C	A1030	207.489	124.946	82.536	1.00196.11	A16S
ATOM	21602	O3*	C	A1030	206.987	125.520	83.746	1.00196.11	A16S
ATOM	21603	P	G	A1030A	207.988	126.315	84.733	1.00197.98	A16S
ATOM	21604	O1P	G	A1030A	207.161	126.936	85.799	1.00197.83	A16S
ATOM	21605	O2P	G	A1030A	208.891	127.172	83.918	1.00197.83	A16S
ATOM	21606	O5*	G	A1030A	208.861	125.164	85.408	1.00197.98	A16S
ATOM	21607	C5*	G	A1030A	208.263	124.220	86.326	1.00197.98	A16S
ATOM	21608	C4*	G	A1030A	209.266	123.157	86.734	1.00197.98	A16S
ATOM	21609	O4*	G	A1030A	209.648	122.374	85.569	1.00197.98	A16S
ATOM	21610	C1*	G	A1030A	211.015	121.995	85.670	1.00197.98	A16S
ATOM	21611	N9	G	A1030A	211.758	122.638	84.585	1.00197.83	A16S
ATOM	21612	C4	G	A1030A	213.087	122.443	84.281	1.00197.83	A16S
ATOM	21613	N3	G	A1030A	213.925	121.587	84.906	1.00197.83	A16S
ATOM	21614	C2	G	A1030A	215.147	121.644	84.407	1.00197.83	A16S
ATOM	21615	N2	G	A1030A	216.106	120.852	84.907	1.00197.83	A16S
ATOM	21616	N1	G	A1030A	215.519	122.479	83.379	1.00197.83	A16S
ATOM	21617	C6	G	A1030A	214.672	123.368	82.721	1.00197.83	A16S
ATOM	21618	O6	G	A1030A	215.109	124.080	81.808	1.00197.83	A16S
ATOM	21619	C5	G	A1030A	213.356	123.311	83.242	1.00197.83	A16S
ATOM	21620	N7	G	A1030A	212.217	124.016	82.879	1.00197.83	A16S
ATOM	21621	C8	G	A1030A	211.294	123.581	83.694	1.00197.83	A16S
ATOM	21622	C2*	G	A1030A	211.524	122.479	87.030	1.00197.98	A16S
ATOM	21623	O2*	G	A1030A	211.417	121.444	87.989	1.00197.98	A16S
ATOM	21624	C3*	G	A1030A	210.590	123.651	87.305	1.00197.98	A16S
ATOM	21625	O3*	G	A1030A	210.521	123.977	88.688	1.00197.98	A16S
ATOM	21626	P	C	A1030B	211.277	125.293	89.235	1.00197.70	A16S
ATOM	21627	O1P	C	A1030B	210.742	125.517	90.599	1.00154.27	A16S
ATOM	21628	O2P	C	A1030B	211.181	126.386	88.219	1.00154.27	A16S
ATOM	21629	O5*	C	A1030B	212.811	124.859	89.369	1.00197.70	A16S
ATOM	21630	C5*	C	A1030B	213.840	125.849	89.615	1.00197.70	A16S

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ATOM	21631	C4*	C	A1030B	215.084	125.213	90.210	1.00197.70	A16S
ATOM	21632	O4*	C	A1030B	214.770	124.599	91.485	1.00197.70	A16S
ATOM	21633	C1*	C	A1030B	215.644	123.506	91.708	1.00197.70	A16S
ATOM	21634	N1	C	A1030B	214.860	122.307	92.070	1.00154.27	A16S
ATOM	21635	C6	C	A1030B	213.500	122.277	91.927	1.00154.27	A16S
ATOM	21636	C2	C	A1030B	215.542	121.183	92.581	1.00154.27	A16S
ATOM	21637	O2	C	A1030B	216.783	121.222	92.688	1.00154.27	A16S
ATOM	21638	N3	C	A1030B	214.833	120.088	92.942	1.00154.27	A16S
ATOM	21639	C4	C	A1030B	213.505	120.077	92.808	1.00154.27	A16S
ATOM	21640	N4	C	A1030B	212.849	118.978	93.188	1.00154.27	A16S
ATOM	21641	C5	C	A1030B	212.790	121.195	92.280	1.00154.27	A16S
ATOM	21642	C2*	C	A1030B	216.538	123.338	90.477	1.00197.70	A16S
ATOM	21643	O2*	C	A1030B	217.809	123.883	90.768	1.00197.70	A16S
ATOM	21644	C3*	C	A1030B	215.769	124.114	89.408	1.00197.70	A16S
ATOM	21645	O3*	C	A1030B	216.671	124.673	88.455	1.00197.70	A16S
ATOM	21646	P	G	A1030C	216.761	124.055	86.973	1.00197.84	A16S
ATOM	21647	O1P	G	A1030C	217.781	124.843	86.233	1.00197.98	A16S
ATOM	21648	O2P	G	A1030C	215.382	123.949	86.431	1.00197.98	A16S
ATOM	21649	O5*	G	A1030C	217.327	122.579	87.184	1.00197.84	A16S
ATOM	21650	C5*	G	A1030C	218.718	122.342	87.492	1.00197.84	A16S
ATOM	21651	C4*	G	A1030C	218.919	120.893	87.875	1.00197.84	A16S
ATOM	21652	O4*	G	A1030C	218.011	120.597	88.968	1.00197.84	A16S
ATOM	21653	C1*	G	A1030C	217.459	119.303	88.802	1.00197.84	A16S
ATOM	21654	N9	G	A1030C	216.012	119.453	88.655	1.00197.98	A16S
ATOM	21655	C4	G	A1030C	215.038	118.725	89.302	1.00197.98	A16S
ATOM	21656	N3	G	A1030C	215.248	117.729	90.192	1.00197.98	A16S
ATOM	21657	C2	G	A1030C	214.111	117.218	90.643	1.00197.98	A16S
ATOM	21658	N2	G	A1030C	214.136	116.212	91.533	1.00197.98	A16S
ATOM	21659	N1	G	A1030C	212.866	117.655	90.254	1.00197.98	A16S
ATOM	21660	C6	G	A1030C	212.624	118.678	89.341	1.00197.98	A16S
ATOM	21661	O6	G	A1030C	211.458	118.994	89.063	1.00197.98	A16S
ATOM	21662	C5	G	A1030C	213.837	119.233	88.845	1.00197.98	A16S
ATOM	21663	N7	G	A1030C	214.051	120.254	87.928	1.00197.98	A16S
ATOM	21664	C8	G	A1030C	215.349	120.350	87.847	1.00197.98	A16S
ATOM	21665	C2*	G	A1030C	218.142	118.653	87.593	1.00197.84	A16S
ATOM	21666	O2*	G	A1030C	219.225	117.851	88.026	1.00197.84	A16S
ATOM	21667	C3*	G	A1030C	218.581	119.875	86.791	1.00197.84	A16S
ATOM	21668	O3*	G	A1030C	219.706	119.603	85.949	1.00197.84	A16S
ATOM	21669	P	A	A1030D	219.484	118.951	84.491	1.00196.72	A16S
ATOM	21670	O1P	A	A1030D	220.768	119.063	83.755	1.00197.28	A16S
ATOM	21671	O2P	A	A1030D	218.250	119.514	83.890	1.00197.28	A16S
ATOM	21672	O5*	A	A1030D	219.220	117.408	84.789	1.00196.72	A16S
ATOM	21673	C5*	A	A1030D	220.294	116.528	85.183	1.00196.72	A16S
ATOM	21674	C4*	A	A1030D	219.749	115.161	85.535	1.00196.72	A16S
ATOM	21675	O4*	A	A1030D	218.845	115.296	86.662	1.00196.72	A16S
ATOM	21676	C1*	A	A1030D	217.756	114.399	86.514	1.00196.72	A16S
ATOM	21677	N9	A	A1030D	216.520	115.184	86.445	1.00197.28	A16S
ATOM	21678	C4	A	A1030D	215.324	114.882	87.054	1.00197.28	A16S
ATOM	21679	N3	A	A1030D	215.047	113.820	87.833	1.00197.28	A16S
ATOM	21680	C2	A	A1030D	213.782	113.859	88.247	1.00197.28	A16S
ATOM	21681	N1	A	A1030D	212.834	114.770	87.989	1.00197.28	A16S
ATOM	21682	C6	A	A1030D	213.145	115.823	87.199	1.00197.28	A16S
ATOM	21683	N6	A	A1030D	212.201	116.731	86.936	1.00197.28	A16S
ATOM	21684	C5	A	A1030D	214.454	115.899	86.698	1.00197.28	A16S
ATOM	21685	N7	A	A1030D	215.087	116.828	85.883	1.00197.28	A16S
ATOM	21686	C8	A	A1030D	216.305	116.361	85.762	1.00197.28	A16S
ATOM	21687	C2*	A	A1030D	218.001	113.566	85.253	1.00196.72	A16S
ATOM	21688	O2*	A	A1030D	218.608	112.337	85.608	1.00196.72	A16S
ATOM	21689	C3*	A	A1030D	218.921	114.480	84.450	1.00196.72	A16S
ATOM	21690	O3*	A	A1030D	219.732	113.741	83.538	1.00196.72	A16S
ATOM	21691	P	G	A1031	219.638	114.038	81.957	1.00197.98	A16S
ATOM	21692	O1P	G	A1031	220.404	112.960	81.280	1.00144.16	A16S
ATOM	21693	O2P	G	A1031	220.015	115.458	81.732	1.00144.16	A16S
ATOM	21694	O5*	G	A1031	218.092	113.871	81.588	1.00197.98	A16S
ATOM	21695	C5*	G	A1031	217.399	112.614	81.787	1.00197.98	A16S
ATOM	21696	C4*	G	A1031	215.908	112.850	81.931	1.00197.98	A16S
ATOM	21697	O4*	G	A1031	215.720	113.934	82.878	1.00197.98	A16S
ATOM	21698	C1*	G	A1031	214.604	114.721	82.498	1.00197.98	A16S
ATOM	21699	N9	G	A1031	215.063	116.076	82.209	1.00144.16	A16S
ATOM	21700	C4	G	A1031	214.296	117.214	82.250	1.00144.16	A16S
ATOM	21701	N3	G	A1031	212.988	117.278	82.593	1.00144.16	A16S
ATOM	21702	C2	G	A1031	212.518	118.512	82.526	1.00144.16	A16S
ATOM	21703	N2	G	A1031	211.236	118.760	82.838	1.00144.16	A16S
ATOM	21704	N1	G	A1031	213.271	119.595	82.147	1.00144.16	A16S
ATOM	21705	C6	G	A1031	214.617	119.552	81.785	1.00144.16	A16S
ATOM	21706	O6	G	A1031	215.200	120.589	81.450	1.00144.16	A16S
ATOM	21707	C5	G	A1031	215.136	118.234	81.861	1.00144.16	A16S

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ATOM	21708	N7	G	A1031	216.411	117.752	81.596	1.00144.16	A16S
ATOM	21709	C8	G	A1031	216.323	116.470	81.819	1.00144.16	A16S
ATOM	21710	C2*	G	A1031	213.968	114.073	81.269	1.00197.98	A16S
ATOM	21711	O2*	G	A1031	212.889	113.248	81.665	1.00197.98	A16S
ATOM	21712	C3*	G	A1031	215.144	113.297	80.685	1.00197.98	A16S
ATOM	21713	O3*	G	A1031	214.687	112.200	79.888	1.00197.98	A16S
ATOM	21714	P	G	A1032	214.132	112.467	78.393	1.00197.96	A16S
ATOM	21715	O1P	G	A1032	213.825	111.144	77.775	1.00162.64	A16S
ATOM	21716	O2P	G	A1032	215.067	113.403	77.705	1.00162.64	A16S
ATOM	21717	O5*	G	A1032	212.754	113.240	78.604	1.00197.96	A16S
ATOM	21718	C5*	G	A1032	211.555	112.549	79.020	1.00197.96	A16S
ATOM	21719	C4*	G	A1032	210.385	113.503	79.003	1.00197.96	A16S
ATOM	21720	O4*	G	A1032	210.737	114.647	79.823	1.00197.96	A16S
ATOM	21721	C1*	G	A1032	210.260	115.837	79.222	1.00197.96	A16S
ATOM	21722	N9	G	A1032	211.405	116.705	78.951	1.00162.64	A16S
ATOM	21723	C4	G	A1032	211.358	118.011	78.518	1.00162.64	A16S
ATOM	21724	N3	G	A1032	210.239	118.722	78.257	1.00162.64	A16S
ATOM	21725	C2	G	A1032	210.516	119.952	77.853	1.00162.64	A16S
ATOM	21726	N2	G	A1032	209.521	120.797	77.544	1.00162.64	A16S
ATOM	21727	N1	G	A1032	211.789	120.447	77.723	1.00162.64	A16S
ATOM	21728	C6	G	A1032	212.956	119.740	77.991	1.00162.64	A16S
ATOM	21729	O6	G	A1032	214.055	120.291	77.850	1.00162.64	A16S
ATOM	21730	C5	G	A1032	212.674	118.411	78.418	1.00162.64	A16S
ATOM	21731	N7	G	A1032	213.532	117.377	78.772	1.00162.64	A16S
ATOM	21732	C8	G	A1032	212.738	116.388	79.079	1.00162.64	A16S
ATOM	21733	C2*	G	A1032	209.463	115.451	77.973	1.00197.96	A16S
ATOM	21734	O2*	G	A1032	208.084	115.400	78.288	1.00197.96	A16S
ATOM	21735	C3*	G	A1032	210.052	114.086	77.635	1.00197.96	A16S
ATOM	21736	O3*	G	A1032	209.120	113.260	76.932	1.00197.96	A16S
ATOM	21737	P	G	A1033	209.113	113.246	75.320	1.00197.98	A16S
ATOM	21738	O1P	G	A1033	208.108	112.235	74.895	1.00187.78	A16S
ATOM	21739	O2P	G	A1033	210.518	113.131	74.846	1.00187.78	A16S
ATOM	21740	O5*	G	A1033	208.567	114.687	74.909	1.00197.98	A16S
ATOM	21741	C5*	G	A1033	207.155	114.987	74.940	1.00197.98	A16S
ATOM	21742	C4*	G	A1033	206.904	116.387	74.426	1.00197.98	A16S
ATOM	21743	O4*	G	A1033	207.613	117.334	75.268	1.00197.98	A16S
ATOM	21744	C1*	G	A1033	208.069	118.424	74.484	1.00197.98	A16S
ATOM	21745	N9	G	A1033	209.524	118.504	74.586	1.00187.78	A16S
ATOM	21746	C4	G	A1033	210.295	119.608	74.304	1.00187.78	A16S
ATOM	21747	N3	G	A1033	209.837	120.812	73.894	1.00187.78	A16S
ATOM	21748	C2	G	A1033	210.820	121.675	73.693	1.00187.78	A16S
ATOM	21749	N2	G	A1033	210.541	122.915	73.271	1.00187.78	A16S
ATOM	21750	N1	G	A1033	212.147	121.384	73.886	1.00187.78	A16S
ATOM	21751	C6	G	A1033	212.643	120.155	74.310	1.00187.78	A16S
ATOM	21752	O6	G	A1033	213.862	120.000	74.453	1.00187.78	A16S
ATOM	21753	C5	G	A1033	211.597	119.212	74.524	1.00187.78	A16S
ATOM	21754	N7	G	A1033	211.646	117.886	74.937	1.00187.78	A16S
ATOM	21755	C8	G	A1033	210.397	117.508	74.962	1.00187.78	A16S
ATOM	21756	C2*	G	A1033	207.598	118.202	73.046	1.00197.98	A16S
ATOM	21757	O2*	G	A1033	206.407	118.930	72.815	1.00197.98	A16S
ATOM	21758	C3*	G	A1033	207.396	116.691	73.016	1.00197.98	A16S
ATOM	21759	O3*	G	A1033	206.461	116.301	72.014	1.00197.98	A16S
ATOM	21760	P	G	A1034	206.980	115.967	70.525	1.00197.98	A16S
ATOM	21761	O1P	G	A1034	205.856	115.295	69.815	1.00152.12	A16S
ATOM	21762	O2P	G	A1034	208.294	115.277	70.634	1.00152.12	A16S
ATOM	21763	O5*	G	A1034	207.231	117.398	69.859	1.00197.98	A16S
ATOM	21764	C5*	G	A1034	206.130	118.282	69.561	1.00197.98	A16S
ATOM	21765	C4*	G	A1034	206.632	119.665	69.195	1.00197.98	A16S
ATOM	21766	O4*	G	A1034	207.425	120.199	70.290	1.00197.98	A16S
ATOM	21767	C1*	G	A1034	208.429	121.061	69.777	1.00197.98	A16S
ATOM	21768	N9	G	A1034	209.745	120.593	70.210	1.00152.12	A16S
ATOM	21769	C4	G	A1034	210.913	121.322	70.157	1.00152.12	A16S
ATOM	21770	N3	G	A1034	211.035	122.592	69.712	1.00152.12	A16S
ATOM	21771	C2	G	A1034	212.284	123.020	69.768	1.00152.12	A16S
ATOM	21772	N2	G	A1034	212.581	124.259	69.352	1.00152.12	A16S
ATOM	21773	N1	G	A1034	213.333	122.265	70.232	1.00152.12	A16S
ATOM	21774	C6	G	A1034	213.237	120.956	70.694	1.00152.12	A16S
ATOM	21775	O6	G	A1034	214.252	120.365	71.084	1.00152.12	A16S
ATOM	21776	C5	G	A1034	211.895	120.478	70.636	1.00152.12	A16S
ATOM	21777	N7	G	A1034	211.356	119.246	70.991	1.00152.12	A16S
ATOM	21778	C8	G	A1034	210.082	119.360	70.726	1.00152.12	A16S
ATOM	21779	C2*	G	A1034	208.293	121.088	68.253	1.00197.98	A16S
ATOM	21780	O2*	G	A1034	207.579	122.246	67.864	1.00197.98	A16S
ATOM	21781	C3*	G	A1034	207.542	119.788	67.980	1.00197.98	A16S
ATOM	21782	O3*	G	A1034	206.817	119.850	66.753	1.00197.98	A16S
ATOM	21783	P	A	A1035	207.595	119.650	65.356	1.00197.39	A16S
ATOM	21784	O1P	A	A1035	206.584	119.624	64.266	1.00197.98	A16S

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ATOM	21785	O2P	A	A1035	208.541	118.513	65.503	1.00197.98	A16S
ATOM	21786	O5*	A	A1035	208.453	120.984	65.199	1.00197.39	A16S
ATOM	21787	C5*	A	A1035	207.825	122.234	64.848	1.00197.39	A16S
ATOM	21788	C4*	A	A1035	208.869	123.249	64.448	1.00197.39	A16S
ATOM	21789	O4*	A	A1035	209.704	123.556	65.598	1.00197.39	A16S
ATOM	21790	C1*	A	A1035	211.051	123.728	65.183	1.00197.39	A16S
ATOM	21791	N9	A	A1035	211.846	122.632	65.744	1.00197.98	A16S
ATOM	21792	C4	A	A1035	213.201	122.639	65.976	1.00197.98	A16S
ATOM	21793	N3	A	A1035	214.060	123.653	65.771	1.00197.98	A16S
ATOM	21794	C2	A	A1035	215.300	123.289	66.090	1.00197.98	A16S
ATOM	21795	N1	A	A1035	215.747	122.115	66.555	1.00197.98	A16S
ATOM	21796	C6	A	A1035	214.859	121.115	66.749	1.00197.98	A16S
ATOM	21797	N6	A	A1035	215.305	119.943	67.209	1.00197.98	A16S
ATOM	21798	C5	A	A1035	213.509	121.374	66.450	1.00197.98	A16S
ATOM	21799	N7	A	A1035	212.368	120.589	66.534	1.00197.98	A16S
ATOM	21800	C8	A	A1035	211.411	121.379	66.113	1.00197.98	A16S
ATOM	21801	C2*	A	A1035	211.071	123.655	63.656	1.00197.39	A16S
ATOM	21802	O2*	A	A1035	210.977	124.952	63.098	1.00197.39	A16S
ATOM	21803	C3*	A	A1035	209.852	122.784	63.384	1.00197.39	A16S
ATOM	21804	O3*	A	A1035	209.360	122.899	62.058	1.00197.39	A16S
ATOM	21805	P	G	A1036	209.946	121.932	60.913	1.00197.61	A16S
ATOM	21806	O1P	G	A1036	208.989	121.958	59.779	1.00197.98	A16S
ATOM	21807	O2P	G	A1036	210.311	120.630	61.531	1.00197.98	A16S
ATOM	21808	O5*	G	A1036	211.290	122.660	60.456	1.00197.61	A16S
ATOM	21809	C5*	G	A1036	211.253	123.980	59.870	1.00197.61	A16S
ATOM	21810	C4*	G	A1036	212.648	124.560	59.765	1.00197.61	A16S
ATOM	21811	O4*	G	A1036	213.202	124.731	61.094	1.00197.61	A16S
ATOM	21812	C1*	G	A1036	214.599	124.488	61.063	1.00197.61	A16S
ATOM	21813	N9	G	A1036	214.902	123.385	61.975	1.00197.98	A16S
ATOM	21814	C4	G	A1036	216.157	122.939	62.329	1.00197.98	A16S
ATOM	21815	N3	G	A1036	217.332	123.434	61.881	1.00197.98	A16S
ATOM	21816	C2	G	A1036	218.369	122.803	62.407	1.00197.98	A16S
ATOM	21817	N2	G	A1036	219.614	123.160	62.060	1.00197.98	A16S
ATOM	21818	N1	G	A1036	218.262	121.774	63.311	1.00197.98	A16S
ATOM	21819	C6	G	A1036	217.064	121.254	63.792	1.00197.98	A16S
ATOM	21820	O6	G	A1036	217.081	120.342	64.622	1.00197.98	A16S
ATOM	21821	C5	G	A1036	215.942	121.910	63.222	1.00197.98	A16S
ATOM	21822	N7	G	A1036	214.583	121.699	63.414	1.00197.98	A16S
ATOM	21823	C8	G	A1036	214.006	122.593	62.657	1.00197.98	A16S
ATOM	21824	C2*	G	A1036	214.995	124.199	59.613	1.00197.61	A16S
ATOM	21825	O2*	G	A1036	215.472	125.386	59.007	1.00197.61	A16S
ATOM	21826	C3*	G	A1036	213.676	123.719	59.020	1.00197.61	A16S
ATOM	21827	O3*	G	A1036	213.625	123.931	57.613	1.00197.61	A16S
ATOM	21828	P	C	A1037	213.733	122.675	56.613	1.00197.98	A16S
ATOM	21829	O1P	C	A1037	213.839	123.224	55.235	1.00188.97	A16S
ATOM	21830	O2P	C	A1037	212.649	121.707	56.940	1.00188.97	A16S
ATOM	21831	O5*	C	A1037	215.124	121.992	56.980	1.00197.98	A16S
ATOM	21832	C5*	C	A1037	216.375	122.659	56.720	1.00197.98	A16S
ATOM	21833	C4*	C	A1037	217.494	121.956	57.450	1.00197.98	A16S
ATOM	21834	O4*	C	A1037	217.207	121.993	58.872	1.00197.98	A16S
ATOM	21835	C1*	C	A1037	217.594	120.768	59.474	1.00197.98	A16S
ATOM	21836	N1	C	A1037	216.400	120.145	60.096	1.00188.97	A16S
ATOM	21837	C6	C	A1037	215.143	120.645	59.873	1.00188.97	A16S
ATOM	21838	C2	C	A1037	216.574	119.027	60.934	1.00188.97	A16S
ATOM	21839	O2	C	A1037	217.718	118.573	61.108	1.00188.97	A16S
ATOM	21840	N3	C	A1037	215.489	118.470	61.527	1.00188.97	A16S
ATOM	21841	C4	C	A1037	214.273	118.978	61.311	1.00188.97	A16S
ATOM	21842	N4	C	A1037	213.239	118.405	61.930	1.00188.97	A16S
ATOM	21843	C5	C	A1037	214.065	120.098	60.455	1.00188.97	A16S
ATOM	21844	C2*	C	A1037	218.265	119.910	58.397	1.00197.98	A16S
ATOM	21845	O2*	C	A1037	219.670	120.081	58.463	1.00197.98	A16S
ATOM	21846	C3*	C	A1037	217.655	120.478	57.120	1.00197.98	A16S
ATOM	21847	O3*	C	A1037	218.493	120.279	55.983	1.00197.98	A16S
ATOM	21848	P	C	A1038	218.196	119.062	54.972	1.00176.37	A16S
ATOM	21849	O1P	C	A1038	218.955	119.346	53.725	1.00190.62	A16S
ATOM	21850	O2P	C	A1038	216.724	118.852	54.904	1.00190.62	A16S
ATOM	21851	O5*	C	A1038	218.842	117.785	55.679	1.00176.37	A16S
ATOM	21852	C5*	C	A1038	220.270	117.677	55.898	1.00176.37	A16S
ATOM	21853	C4*	C	A1038	220.556	116.642	56.965	1.00176.37	A16S
ATOM	21854	O4*	C	A1038	219.897	117.057	58.190	1.00176.37	A16S
ATOM	21855	C1*	C	A1038	219.345	115.929	58.854	1.00176.37	A16S
ATOM	21856	N1	C	A1038	217.873	116.097	58.924	1.00190.62	A16S
ATOM	21857	C6	C	A1038	217.195	116.778	57.948	1.00190.62	A16S
ATOM	21858	C2	C	A1038	217.172	115.545	60.012	1.00190.62	A16S
ATOM	21859	O2	C	A1038	217.798	114.929	60.881	1.00190.62	A16S
ATOM	21860	N3	C	A1038	215.829	115.703	60.084	1.00190.62	A16S
ATOM	21861	C4	C	A1038	215.183	116.377	59.129	1.00190.62	A16S

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ATOM	21862	N4	C	A1038	213.861	116.518	59.249	1.00190.62	A16S
ATOM	21863	C5	C	A1038	215.865	116.941	58.011	1.00190.62	A16S
ATOM	21864	C2*	C	A1038	219.775	114.682	58.080	1.00176.37	A16S
ATOM	21865	O2*	C	A1038	220.941	114.125	58.656	1.00176.37	A16S
ATOM	21866	C3*	C	A1038	220.002	115.250	56.685	1.00176.37	A16S
ATOM	21867	O3*	C	A1038	220.889	114.445	55.917	1.00176.37	A16S
ATOM	21868	P	C	A1039	220.292	113.448	54.802	1.00156.64	A16S
ATOM	21869	O1P	C	A1039	221.278	113.415	53.692	1.00132.80	A16S
ATOM	21870	O2P	C	A1039	218.882	113.829	54.520	1.00132.80	A16S
ATOM	21871	O5*	C	A1039	220.271	112.016	55.505	1.00156.64	A16S
ATOM	21872	C5*	C	A1039	221.408	111.132	55.432	1.00156.64	A16S
ATOM	21873	C4*	C	A1039	221.210	109.951	56.352	1.00156.64	A16S
ATOM	21874	O4*	C	A1039	220.898	110.461	57.677	1.00156.64	A16S
ATOM	21875	C1*	C	A1039	219.949	109.616	58.312	1.00156.64	A16S
ATOM	21876	N1	C	A1039	218.712	110.392	58.555	1.00132.80	A16S
ATOM	21877	C6	C	A1039	218.643	111.724	58.245	1.00132.80	A16S
ATOM	21878	C2	C	A1039	217.592	109.736	59.098	1.00132.80	A16S
ATOM	21879	O2	C	A1039	217.683	108.535	59.412	1.00132.80	A16S
ATOM	21880	N3	C	A1039	216.442	110.432	59.278	1.00132.80	A16S
ATOM	21881	C4	C	A1039	216.388	111.729	58.961	1.00132.80	A16S
ATOM	21882	N4	C	A1039	215.234	112.375	59.156	1.00132.80	A16S
ATOM	21883	C5	C	A1039	217.514	112.423	58.432	1.00132.80	A16S
ATOM	21884	C2*	C	A1039	219.708	108.424	57.384	1.00156.64	A16S
ATOM	21885	O2*	C	A1039	220.549	107.352	57.767	1.00156.64	A16S
ATOM	21886	C3*	C	A1039	220.049	109.020	56.023	1.00156.64	A16S
ATOM	21887	O3*	C	A1039	220.389	108.016	55.067	1.00156.64	A16S
ATOM	21888	P	U	A1040	219.219	107.204	54.306	1.00152.05	A16S
ATOM	21889	O1P	U	A1040	219.872	106.241	53.381	1.00152.34	A16S
ATOM	21890	O2P	U	A1040	218.219	108.170	53.777	1.00152.34	A16S
ATOM	21891	O5*	U	A1040	218.516	106.354	55.456	1.00152.05	A16S
ATOM	21892	C5*	U	A1040	219.248	105.354	56.184	1.00152.05	A16S
ATOM	21893	C4*	U	A1040	218.350	104.671	57.187	1.00152.05	A16S
ATOM	21894	O4*	U	A1040	217.888	105.632	58.173	1.00152.05	A16S
ATOM	21895	C1*	U	A1040	216.566	105.307	58.572	1.00152.05	A16S
ATOM	21896	N1	U	A1040	215.684	106.456	58.297	1.00152.34	A16S
ATOM	21897	C6	U	A1040	216.037	107.443	57.404	1.00152.34	A16S
ATOM	21898	C2	U	A1040	214.479	106.520	58.978	1.00152.34	A16S
ATOM	21899	O2	U	A1040	214.105	105.653	59.752	1.00152.34	A16S
ATOM	21900	N3	U	A1040	213.721	107.637	58.714	1.00152.34	A16S
ATOM	21901	C4	U	A1040	214.028	108.667	57.853	1.00152.34	A16S
ATOM	21902	O4	U	A1040	213.269	109.634	57.769	1.00152.34	A16S
ATOM	21903	C5	U	A1040	215.271	108.515	57.166	1.00152.34	A16S
ATOM	21904	C2*	U	A1040	216.153	104.034	57.833	1.00152.05	A16S
ATOM	21905	O2*	U	A1040	216.373	102.920	58.674	1.00152.05	A16S
ATOM	21906	C3*	U	A1040	217.076	104.066	56.620	1.00152.05	A16S
ATOM	21907	O3*	U	A1040	217.308	102.775	56.068	1.00152.05	A16S
ATOM	21908	P	A	A1041	216.661	102.389	54.646	1.00172.94	A16S
ATOM	21909	O1P	A	A1041	217.505	101.314	54.065	1.00159.74	A16S
ATOM	21910	O2P	A	A1041	216.441	103.645	53.877	1.00159.74	A16S
ATOM	21911	O5*	A	A1041	215.237	101.770	55.020	1.00172.94	A16S
ATOM	21912	C5*	A	A1041	215.130	100.504	55.715	1.00172.94	A16S
ATOM	21913	C4*	A	A1041	213.817	100.425	56.466	1.00172.94	A16S
ATOM	21914	O4*	A	A1041	213.766	101.504	57.432	1.00172.94	A16S
ATOM	21915	C1*	A	A1041	212.443	101.996	57.532	1.00172.94	A16S
ATOM	21916	N9	A	A1041	212.450	103.414	57.173	1.00159.74	A16S
ATOM	21917	C4	A	A1041	211.468	104.328	57.471	1.00159.74	A16S
ATOM	21918	N3	A	A1041	210.320	104.107	58.137	1.00159.74	A16S
ATOM	21919	C2	A	A1041	209.606	105.226	58.228	1.00159.74	A16S
ATOM	21920	N1	A	A1041	209.887	106.452	57.765	1.00159.74	A16S
ATOM	21921	C6	A	A1041	211.051	106.642	57.103	1.00159.74	A16S
ATOM	21922	N6	A	A1041	211.334	107.866	56.646	1.00159.74	A16S
ATOM	21923	C5	A	A1041	211.898	105.530	56.937	1.00159.74	A16S
ATOM	21924	N7	A	A1041	213.129	105.378	56.314	1.00159.74	A16S
ATOM	21925	C8	A	A1041	213.410	104.110	56.480	1.00159.74	A16S
ATOM	21926	C2*	A	A1041	211.550	101.152	56.619	1.00172.94	A16S
ATOM	21927	O2*	A	A1041	210.906	100.155	57.384	1.00172.94	A16S
ATOM	21928	C3*	A	A1041	212.558	100.588	55.624	1.00172.94	A16S
ATOM	21929	O3*	A	A1041	212.122	99.334	55.103	1.00172.94	A16S
ATOM	21930	P	G	A1042	211.563	99.241	53.597	1.00197.68	A16S
ATOM	21931	O1P	G	A1042	211.425	97.787	53.299	1.00137.07	A16S
ATOM	21932	O2P	G	A1042	212.422	100.090	52.725	1.00137.07	A16S
ATOM	21933	O5*	G	A1042	210.107	99.894	53.663	1.00197.68	A16S
ATOM	21934	C5*	G	A1042	208.937	99.070	53.850	1.00197.68	A16S
ATOM	21935	C4*	G	A1042	207.706	99.917	54.106	1.00197.68	A16S
ATOM	21936	O4*	G	A1042	207.984	100.854	55.180	1.00197.68	A16S
ATOM	21937	C1*	G	A1042	207.168	102.002	55.025	1.00197.68	A16S
ATOM	21938	N9	G	A1042	207.998	103.199	54.951	1.00137.07	A16S

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ATOM	21939	C4	G	A1042	207.520	104.486	54.930	1.00137.07	A16S
ATOM	21940	N3	G	A1042	206.217	104.844	54.975	1.00137.07	A16S
ATOM	21941	C2	G	A1042	206.062	106.156	54.942	1.00137.07	A16S
ATOM	21942	N2	G	A1042	204.826	106.680	54.975	1.00137.07	A16S
ATOM	21943	N1	G	A1042	207.105	107.049	54.874	1.00137.07	A16S
ATOM	21944	C6	G	A1042	208.454	106.704	54.828	1.00137.07	A16S
ATOM	21945	O6	G	A1042	209.313	107.593	54.773	1.00137.07	A16S
ATOM	21946	C5	G	A1042	208.634	105.291	54.856	1.00137.07	A16S
ATOM	21947	N7	G	A1042	209.793	104.524	54.824	1.00137.07	A16S
ATOM	21948	C8	G	A1042	209.367	103.290	54.883	1.00137.07	A16S
ATOM	21949	C2*	G	A1042	206.353	101.837	53.747	1.00197.68	A16S
ATOM	21950	O2*	G	A1042	205.051	101.396	54.078	1.00197.68	A16S
ATOM	21951	C3*	G	A1042	207.173	100.802	52.985	1.00197.68	A16S
ATOM	21952	O3*	G	A1042	206.336	100.114	52.062	1.00197.68	A16S
ATOM	21953	P	C	A1043	205.975	100.803	50.649	1.00170.20	A16S
ATOM	21954	O1P	C	A1043	205.022	99.898	49.952	1.00197.98	A16S
ATOM	21955	O2P	C	A1043	207.249	101.177	49.984	1.00197.98	A16S
ATOM	21956	O5*	C	A1043	205.204	102.150	51.032	1.00170.20	A16S
ATOM	21957	C5*	C	A1043	203.848	102.115	51.525	1.00170.20	A16S
ATOM	21958	C4*	C	A1043	203.237	103.502	51.528	1.00170.20	A16S
ATOM	21959	O4*	C	A1043	203.984	104.377	52.414	1.00170.20	A16S
ATOM	21960	C1*	C	A1043	203.892	105.714	51.945	1.00170.20	A16S
ATOM	21961	N1	C	A1043	205.244	106.277	51.760	1.00197.98	A16S
ATOM	21962	C6	C	A1043	206.339	105.470	51.615	1.00197.98	A16S
ATOM	21963	C2	C	A1043	205.386	107.675	51.724	1.00197.98	A16S
ATOM	21964	O2	C	A1043	204.380	108.388	51.865	1.00197.98	A16S
ATOM	21965	N3	C	A1043	206.611	108.211	51.534	1.00197.98	A16S
ATOM	21966	C4	C	A1043	207.671	107.415	51.385	1.00197.98	A16S
ATOM	21967	N4	C	A1043	208.859	107.993	51.192	1.00197.98	A16S
ATOM	21968	C5	C	A1043	207.560	105.992	51.426	1.00197.98	A16S
ATOM	21969	C2*	C	A1043	203.090	105.710	50.644	1.00170.20	A16S
ATOM	21970	O2*	C	A1043	201.762	106.115	50.906	1.00170.20	A16S
ATOM	21971	C3*	C	A1043	203.206	104.254	50.205	1.00170.20	A16S
ATOM	21972	O3*	C	A1043	202.105	103.880	49.386	1.00170.20	A16S
ATOM	21973	P	A	A1044	202.122	104.248	47.819	1.00145.40	A16S
ATOM	21974	O1P	A	A1044	200.940	103.590	47.203	1.00133.44	A16S
ATOM	21975	O2P	A	A1044	203.480	103.956	47.291	1.00133.44	A16S
ATOM	21976	O5*	A	A1044	201.894	105.830	47.778	1.00145.40	A16S
ATOM	21977	C5*	A	A1044	200.573	106.378	47.943	1.00145.40	A16S
ATOM	21978	C4*	A	A1044	200.533	107.847	47.571	1.00145.40	A16S
ATOM	21979	O4*	A	A1044	201.194	108.659	48.577	1.00145.40	A16S
ATOM	21980	C1*	A	A1044	201.650	109.864	47.981	1.00145.40	A16S
ATOM	21981	N9	A	A1044	203.094	109.989	48.178	1.00133.44	A16S
ATOM	21982	C4	A	A1044	203.816	111.144	47.984	1.00133.44	A16S
ATOM	21983	N3	A	A1044	203.340	112.355	47.635	1.00133.44	A16S
ATOM	21984	C2	A	A1044	204.334	113.229	47.496	1.00133.44	A16S
ATOM	21985	N1	A	A1044	205.653	113.047	47.654	1.00133.44	A16S
ATOM	21986	C6	A	A1044	206.099	111.819	48.007	1.00133.44	A16S
ATOM	21987	N6	A	A1044	207.416	111.635	48.158	1.00133.44	A16S
ATOM	21988	C5	A	A1044	205.139	110.801	48.191	1.00133.44	A16S
ATOM	21989	N7	A	A1044	205.249	109.462	48.545	1.00133.44	A16S
ATOM	21990	C8	A	A1044	204.012	109.029	48.532	1.00133.44	A16S
ATOM	21991	C2*	A	A1044	201.324	109.794	46.488	1.00145.40	A16S
ATOM	21992	O2*	A	A1044	200.143	110.520	46.208	1.00145.40	A16S
ATOM	21993	C3*	A	A1044	201.169	108.294	46.266	1.00145.40	A16S
ATOM	21994	O3*	A	A1044	200.358	108.040	45.131	1.00145.40	A16S
ATOM	21995	P	C	A1045	201.043	107.531	43.765	1.00151.12	A16S
ATOM	21996	O1P	C	A1045	199.996	107.592	42.711	1.00139.79	A16S
ATOM	21997	O2P	C	A1045	201.734	106.243	44.042	1.00139.79	A16S
ATOM	21998	O5*	C	A1045	202.154	108.624	43.425	1.00151.12	A16S
ATOM	21999	C5*	C	A1045	201.836	110.026	43.429	1.00151.12	A16S
ATOM	22000	C4*	C	A1045	203.053	110.846	43.800	1.00151.12	A16S
ATOM	22001	O4*	C	A1045	203.893	110.088	44.713	1.00151.12	A16S
ATOM	22002	C1*	C	A1045	205.254	110.450	44.525	1.00151.12	A16S
ATOM	22003	N1	C	A1045	206.045	109.246	44.193	1.00139.79	A16S
ATOM	22004	C6	C	A1045	205.441	108.111	43.727	1.00139.79	A16S
ATOM	22005	C2	C	A1045	207.446	109.284	44.361	1.00139.79	A16S
ATOM	22006	O2	C	A1045	207.983	110.324	44.781	1.00139.79	A16S
ATOM	22007	N3	C	A1045	208.174	108.187	44.059	1.00139.79	A16S
ATOM	22008	C4	C	A1045	207.569	107.088	43.606	1.00139.79	A16S
ATOM	22009	N4	C	A1045	208.329	106.033	43.320	1.00139.79	A16S
ATOM	22010	C5	C	A1045	206.156	107.022	43.426	1.00139.79	A16S
ATOM	22011	C2*	C	A1045	205.301	111.507	43.425	1.00151.12	A16S
ATOM	22012	O2*	C	A1045	205.302	112.787	44.021	1.00151.12	A16S
ATOM	22013	C3*	C	A1045	204.001	111.239	42.680	1.00151.12	A16S
ATOM	22014	O3*	C	A1045	203.566	112.417	42.016	1.00151.12	A16S
ATOM	22015	P	A	A1046	204.269	112.853	40.639	1.00115.38	A16S

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ATOM	22016	O1P	A	A1046	203.768	114.219	40.304	1.00	95.40	A16S
ATOM	22017	O2P	A	A1046	204.100	111.732	39.660	1.00	95.40	A16S
ATOM	22018	O5*	A	A1046	205.816	112.958	41.017	1.00	115.38	A16S
ATOM	22019	C5*	A	A1046	206.831	112.972	39.995	1.00	115.38	A16S
ATOM	22020	C4*	A	A1046	208.190	113.196	40.609	1.00	115.38	A16S
ATOM	22021	O4*	A	A1046	208.505	112.096	41.499	1.00	115.38	A16S
ATOM	22022	C1*	A	A1046	209.881	111.775	41.394	1.00	115.38	A16S
ATOM	22023	N9	A	A1046	209.984	110.431	40.832	1.00	95.40	A16S
ATOM	22024	C4	A	A1046	211.133	109.700	40.647	1.00	95.40	A16S
ATOM	22025	N3	A	A1046	212.392	110.068	40.940	1.00	95.40	A16S
ATOM	22026	C2	A	A1046	213.250	109.093	40.633	1.00	95.40	A16S
ATOM	22027	N1	A	A1046	213.008	107.881	40.105	1.00	95.40	A16S
ATOM	22028	C6	A	A1046	211.729	107.545	39.820	1.00	95.40	A16S
ATOM	22029	N6	A	A1046	211.481	106.338	39.298	1.00	95.40	A16S
ATOM	22030	C5	A	A1046	210.728	108.494	40.097	1.00	95.40	A16S
ATOM	22031	N7	A	A1046	209.351	108.471	39.929	1.00	95.40	A16S
ATOM	22032	C8	A	A1046	208.960	109.639	40.378	1.00	95.40	A16S
ATOM	22033	C2*	A	A1046	210.523	112.799	40.465	1.00	115.38	A16S
ATOM	22034	O2*	A	A1046	211.040	113.872	41.223	1.00	115.38	A16S
ATOM	22035	C3*	A	A1046	209.336	113.210	39.614	1.00	115.38	A16S
ATOM	22036	O3*	A	A1046	209.515	114.481	39.022	1.00	115.38	A16S
ATOM	22037	P	G	A1047	209.502	114.606	37.423	1.00	92.82	A16S
ATOM	22038	O1P	G	A1047	209.796	116.028	37.085	1.00	69.34	A16S
ATOM	22039	O2P	G	A1047	208.250	113.970	36.931	1.00	69.34	A16S
ATOM	22040	O5*	G	A1047	210.695	113.668	36.942	1.00	92.82	A16S
ATOM	22041	C5*	G	A1047	212.053	113.909	37.342	1.00	92.82	A16S
ATOM	22042	C4*	G	A1047	212.927	112.763	36.894	1.00	92.82	A16S
ATOM	22043	O4*	G	A1047	212.555	111.563	37.626	1.00	92.82	A16S
ATOM	22044	C1*	G	A1047	212.579	110.437	36.758	1.00	92.82	A16S
ATOM	22045	N9	G	A1047	211.199	110.014	36.535	1.00	69.34	A16S
ATOM	22046	C4	G	A1047	210.783	108.785	36.086	1.00	69.34	A16S
ATOM	22047	N3	G	A1047	211.581	107.740	35.790	1.00	69.34	A16S
ATOM	22048	C2	G	A1047	210.887	106.692	35.368	1.00	69.34	A16S
ATOM	22049	N2	G	A1047	211.525	105.567	35.018	1.00	69.34	A16S
ATOM	22050	N1	G	A1047	209.516	106.668	35.253	1.00	69.34	A16S
ATOM	22051	C6	G	A1047	208.670	107.730	35.556	1.00	69.34	A16S
ATOM	22052	O6	G	A1047	207.438	107.599	35.423	1.00	69.34	A16S
ATOM	22053	C5	G	A1047	209.406	108.871	36.002	1.00	69.34	A16S
ATOM	22054	N7	G	A1047	208.967	110.131	36.389	1.00	69.34	A16S
ATOM	22055	C8	G	A1047	210.061	110.771	36.702	1.00	69.34	A16S
ATOM	22056	C2*	G	A1047	213.162	110.907	35.429	1.00	92.82	A16S
ATOM	22057	O2*	G	A1047	214.564	110.721	35.385	1.00	92.82	A16S
ATOM	22058	C3*	G	A1047	212.748	112.368	35.438	1.00	92.82	A16S
ATOM	22059	O3*	G	A1047	213.464	113.155	34.512	1.00	92.82	A16S
ATOM	22060	P	G	A1048	212.821	113.412	33.064	1.00	83.74	A16S
ATOM	22061	O1P	G	A1048	213.760	114.285	32.307	1.00	79.04	A16S
ATOM	22062	O2P	G	A1048	211.421	113.858	33.270	1.00	79.04	A16S
ATOM	22063	O5*	G	A1048	212.776	111.956	32.408	1.00	83.74	A16S
ATOM	22064	C5*	G	A1048	213.997	111.245	32.153	1.00	83.74	A16S
ATOM	22065	C4*	G	A1048	213.751	110.010	31.315	1.00	83.74	A16S
ATOM	22066	O4*	G	A1048	213.047	109.008	32.099	1.00	83.74	A16S
ATOM	22067	C1*	G	A1048	212.293	108.177	31.231	1.00	83.74	A16S
ATOM	22068	N9	G	A1048	210.874	108.330	31.529	1.00	79.04	A16S
ATOM	22069	C4	G	A1048	209.904	107.392	31.284	1.00	79.04	A16S
ATOM	22070	N3	G	A1048	210.115	106.141	30.818	1.00	79.04	A16S
ATOM	22071	C2	G	A1048	208.986	105.494	30.618	1.00	79.04	A16S
ATOM	22072	N2	G	A1048	209.015	104.238	30.158	1.00	79.04	A16S
ATOM	22073	N1	G	A1048	207.744	106.033	30.853	1.00	79.04	A16S
ATOM	22074	C6	G	A1048	207.503	107.323	31.328	1.00	79.04	A16S
ATOM	22075	O6	G	A1048	206.340	107.723	31.479	1.00	79.04	A16S
ATOM	22076	C5	G	A1048	208.709	108.022	31.561	1.00	79.04	A16S
ATOM	22077	N7	G	A1048	208.927	109.310	32.034	1.00	79.04	A16S
ATOM	22078	C8	G	A1048	210.226	109.443	32.016	1.00	79.04	A16S
ATOM	22079	C2*	G	A1048	212.523	108.674	29.803	1.00	83.74	A16S
ATOM	22080	O2*	G	A1048	213.528	107.894	29.185	1.00	83.74	A16S
ATOM	22081	C3*	G	A1048	212.914	110.126	30.050	1.00	83.74	A16S
ATOM	22082	O3*	G	A1048	213.552	110.746	28.939	1.00	83.74	A16S
ATOM	22083	P	U	A1049	212.873	112.061	28.291	1.00	71.37	A16S
ATOM	22084	O1P	U	A1049	213.504	113.246	28.932	1.00	67.82	A16S
ATOM	22085	O2P	U	A1049	211.394	111.898	28.347	1.00	67.82	A16S
ATOM	22086	O5*	U	A1049	213.299	112.076	26.754	1.00	71.37	A16S
ATOM	22087	C5*	U	A1049	213.142	110.916	25.906	1.00	71.37	A16S
ATOM	22088	C4*	U	A1049	214.465	110.585	25.268	1.00	71.37	A16S
ATOM	22089	O4*	U	A1049	214.870	111.680	24.424	1.00	71.37	A16S
ATOM	22090	C1*	U	A1049	216.271	111.816	24.471	1.00	71.37	A16S
ATOM	22091	N1	U	A1049	216.600	113.244	24.428	1.00	67.82	A16S
ATOM	22092	C6	U	A1049	215.720	114.192	24.883	1.00	67.82	A16S

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ATOM	22093	C2	U	A1049	217.815	113.607	23.873	1.00	67.82	A16S
ATOM	22094	O2	U	A1049	218.650	112.791	23.504	1.00	67.82	A16S
ATOM	22095	N3	U	A1049	218.022	114.962	23.765	1.00	67.82	A16S
ATOM	22096	C4	U	A1049	217.159	115.965	24.159	1.00	67.82	A16S
ATOM	22097	O4	U	A1049	217.421	117.136	23.874	1.00	67.82	A16S
ATOM	22098	C5	U	A1049	215.948	115.503	24.771	1.00	67.82	A16S
ATOM	22099	C2*	U	A1049	216.835	110.983	25.623	1.00	71.37	A16S
ATOM	22100	O2*	U	A1049	217.723	110.001	25.152	1.00	71.37	A16S
ATOM	22101	C3*	U	A1049	215.572	110.446	26.297	1.00	71.37	A16S
ATOM	22102	O3*	U	A1049	215.614	109.093	26.777	1.00	71.37	A16S
ATOM	22103	P	G	A1050	215.879	107.864	25.758	1.00	78.58	A16S
ATOM	22104	O1P	G	A1050	216.918	106.987	26.373	1.00	69.26	A16S
ATOM	22105	O2P	G	A1050	216.082	108.374	24.387	1.00	69.26	A16S
ATOM	22106	O5*	G	A1050	214.503	107.054	25.745	1.00	78.58	A16S
ATOM	22107	C5*	G	A1050	214.534	105.645	25.492	1.00	78.58	A16S
ATOM	22108	C4*	G	A1050	213.161	105.075	25.179	1.00	78.58	A16S
ATOM	22109	O4*	G	A1050	212.334	104.998	26.367	1.00	78.58	A16S
ATOM	22110	C1*	G	A1050	210.995	104.759	25.970	1.00	78.58	A16S
ATOM	22111	N9	G	A1050	210.106	105.779	26.520	1.00	69.26	A16S
ATOM	22112	C4	G	A1050	208.741	105.665	26.609	1.00	69.26	A16S
ATOM	22113	N3	G	A1050	208.021	104.572	26.283	1.00	69.26	A16S
ATOM	22114	C2	G	A1050	206.727	104.781	26.401	1.00	69.26	A16S
ATOM	22115	N2	G	A1050	205.872	103.794	26.106	1.00	69.26	A16S
ATOM	22116	N1	G	A1050	206.177	105.974	26.816	1.00	69.26	A16S
ATOM	22117	C6	G	A1050	206.902	107.110	27.172	1.00	69.26	A16S
ATOM	22118	O6	G	A1050	206.308	108.135	27.545	1.00	69.26	A16S
ATOM	22119	C5	G	A1050	208.297	106.895	27.042	1.00	69.26	A16S
ATOM	22120	N7	G	A1050	209.365	107.750	27.275	1.00	69.26	A16S
ATOM	22121	C8	G	A1050	210.419	107.041	26.968	1.00	69.26	A16S
ATOM	22122	C2*	G	A1050	210.952	104.854	24.444	1.00	78.58	A16S
ATOM	22123	O2*	G	A1050	211.021	103.545	23.910	1.00	78.58	A16S
ATOM	22124	C3*	G	A1050	212.213	105.654	24.133	1.00	78.58	A16S
ATOM	22125	O3*	G	A1050	212.567	105.420	22.762	1.00	78.58	A16S
ATOM	22126	P	C	A1051	211.825	106.258	21.589	1.00	68.92	A16S
ATOM	22127	O1P	C	A1051	212.552	106.031	20.317	1.00	66.92	A16S
ATOM	22128	O2P	C	A1051	211.581	107.654	22.058	1.00	66.92	A16S
ATOM	22129	O5*	C	A1051	210.406	105.557	21.432	1.00	68.92	A16S
ATOM	22130	C5*	C	A1051	210.283	104.266	20.819	1.00	68.92	A16S
ATOM	22131	C4*	C	A1051	208.830	103.963	20.542	1.00	68.92	A16S
ATOM	22132	O4*	C	A1051	208.085	103.965	21.790	1.00	68.92	A16S
ATOM	22133	C1*	C	A1051	206.781	104.481	21.570	1.00	68.92	A16S
ATOM	22134	N1	C	A1051	206.592	105.674	22.420	1.00	66.92	A16S
ATOM	22135	C6	C	A1051	207.664	106.348	22.937	1.00	66.92	A16S
ATOM	22136	C2	C	A1051	205.282	106.122	22.681	1.00	66.92	A16S
ATOM	22137	O2	C	A1051	204.315	105.476	22.234	1.00	66.92	A16S
ATOM	22138	N3	C	A1051	205.107	107.245	23.418	1.00	66.92	A16S
ATOM	22139	C4	C	A1051	206.165	107.900	23.901	1.00	66.92	A16S
ATOM	22140	N4	C	A1051	205.943	109.007	24.604	1.00	66.92	A16S
ATOM	22141	C5	C	A1051	207.497	107.451	23.678	1.00	66.92	A16S
ATOM	22142	C2*	C	A1051	206.652	104.801	20.078	1.00	68.92	A16S
ATOM	22143	O2*	C	A1051	206.032	103.724	19.397	1.00	68.92	A16S
ATOM	22144	C3*	C	A1051	208.108	104.974	19.669	1.00	68.92	A16S
ATOM	22145	O3*	C	A1051	208.290	104.699	18.291	1.00	68.92	A16S
ATOM	22146	P	U	A1052	208.119	105.884	17.224	1.00	70.43	A16S
ATOM	22147	O1P	U	A1052	208.446	105.299	15.897	1.00	81.58	A16S
ATOM	22148	O2P	U	A1052	208.851	107.087	17.705	1.00	81.58	A16S
ATOM	22149	O5*	U	A1052	206.565	106.227	17.268	1.00	70.43	A16S
ATOM	22150	C5*	U	A1052	205.592	105.287	16.786	1.00	70.43	A16S
ATOM	22151	C4*	U	A1052	204.203	105.824	16.995	1.00	70.43	A16S
ATOM	22152	O4*	U	A1052	203.951	105.958	18.415	1.00	70.43	A16S
ATOM	22153	C1*	U	A1052	203.062	107.040	18.632	1.00	70.43	A16S
ATOM	22154	N1	U	A1052	203.639	107.978	19.612	1.00	81.58	A16S
ATOM	22155	C6	U	A1052	204.972	107.958	19.942	1.00	81.58	A16S
ATOM	22156	C2	U	A1052	202.781	108.906	20.192	1.00	81.58	A16S
ATOM	22157	O2	U	A1052	201.582	108.954	19.947	1.00	81.58	A16S
ATOM	22158	N3	U	A1052	203.375	109.775	21.069	1.00	81.58	A16S
ATOM	22159	C4	U	A1052	204.697	109.815	21.428	1.00	81.58	A16S
ATOM	22160	O4	U	A1052	205.082	110.681	22.212	1.00	81.58	A16S
ATOM	22161	C5	U	A1052	205.514	108.823	20.805	1.00	81.58	A16S
ATOM	22162	C2*	U	A1052	202.758	107.685	17.278	1.00	70.43	A16S
ATOM	22163	O2*	U	A1052	201.513	107.199	16.821	1.00	70.43	A16S
ATOM	22164	C3*	U	A1052	203.923	107.205	16.420	1.00	70.43	A16S
ATOM	22165	O3*	U	A1052	203.516	107.121	15.057	1.00	70.43	A16S
ATOM	22166	P	G	A1053	204.237	108.029	13.928	1.00	63.26	A16S
ATOM	22167	O1P	G	A1053	203.394	107.868	12.702	1.00	63.98	A16S
ATOM	22168	O2P	G	A1053	205.702	107.715	13.871	1.00	63.98	A16S
ATOM	22169	O5*	G	A1053	204.074	109.544	14.399	1.00	63.26	A16S

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ATOM	22170	C5*	G	A1053	204.715	110.584	13.647	1.00	63.26	A16S
ATOM	22171	C4*	G	A1053	203.853	111.811	13.602	1.00	63.26	A16S
ATOM	22172	O4*	G	A1053	204.161	112.626	14.760	1.00	63.26	A16S
ATOM	22173	C1*	G	A1053	204.484	113.932	14.332	1.00	63.26	A16S
ATOM	22174	N9	G	A1053	205.481	114.526	15.209	1.00	63.98	A16S
ATOM	22175	C4	G	A1053	205.345	115.735	15.824	1.00	63.98	A16S
ATOM	22176	N3	G	A1053	204.255	116.526	15.760	1.00	63.98	A16S
ATOM	22177	C2	G	A1053	204.419	117.644	16.430	1.00	63.98	A16S
ATOM	22178	N2	G	A1053	203.417	118.528	16.483	1.00	63.98	A16S
ATOM	22179	N1	G	A1053	205.575	117.971	17.100	1.00	63.98	A16S
ATOM	22180	C6	G	A1053	206.713	117.169	17.175	1.00	63.98	A16S
ATOM	22181	O6	G	A1053	207.710	117.561	17.797	1.00	63.98	A16S
ATOM	22182	C5	G	A1053	206.538	115.955	16.474	1.00	63.98	A16S
ATOM	22183	N7	G	A1053	207.399	114.879	16.300	1.00	63.98	A16S
ATOM	22184	C8	G	A1053	206.727	114.049	15.550	1.00	63.98	A16S
ATOM	22185	C2*	G	A1053	204.983	113.810	12.902	1.00	63.26	A16S
ATOM	22186	O2*	G	A1053	204.800	115.034	12.219	1.00	63.26	A16S
ATOM	22187	C3*	G	A1053	204.093	112.700	12.376	1.00	63.26	A16S
ATOM	22188	O3*	G	A1053	202.880	113.281	11.904	1.00	63.26	A16S
ATOM	22189	P	C	A1054	202.483	113.131	10.359	1.00	70.91	A16S
ATOM	22190	O1P	C	A1054	203.558	113.698	9.514	1.00	83.67	A16S
ATOM	22191	O2P	C	A1054	201.098	113.625	10.214	1.00	83.67	A16S
ATOM	22192	O5*	C	A1054	202.494	111.556	10.161	1.00	70.91	A16S
ATOM	22193	C5*	C	A1054	202.262	110.684	11.292	1.00	70.91	A16S
ATOM	22194	C4*	C	A1054	200.820	110.773	11.710	1.00	70.91	A16S
ATOM	22195	O4*	C	A1054	200.009	110.290	10.609	1.00	70.91	A16S
ATOM	22196	C1*	C	A1054	198.854	109.667	11.113	1.00	70.91	A16S
ATOM	22197	N1	C	A1054	198.801	108.274	10.619	1.00	83.67	A16S
ATOM	22198	C6	C	A1054	198.818	107.216	11.489	1.00	83.67	A16S
ATOM	22199	C2	C	A1054	198.684	108.048	9.230	1.00	83.67	A16S
ATOM	22200	O2	C	A1054	198.774	109.005	8.450	1.00	83.67	A16S
ATOM	22201	N3	C	A1054	198.496	106.790	8.780	1.00	83.67	A16S
ATOM	22202	C4	C	A1054	198.460	105.771	9.646	1.00	83.67	A16S
ATOM	22203	N4	C	A1054	198.232	104.543	9.158	1.00	83.67	A16S
ATOM	22204	C5	C	A1054	198.648	105.962	11.053	1.00	83.67	A16S
ATOM	22205	C2*	C	A1054	198.881	109.831	12.630	1.00	70.91	A16S
ATOM	22206	O2*	C	A1054	198.268	111.072	12.922	1.00	70.91	A16S
ATOM	22207	C3*	C	A1054	200.366	109.956	12.906	1.00	70.91	A16S
ATOM	22208	O3*	C	A1054	200.548	110.662	14.130	1.00	70.91	A16S
ATOM	22209	P	A	A1055	200.059	109.993	15.519	1.00	53.89	A16S
ATOM	22210	O1P	A	A1055	201.061	110.348	16.541	1.00	70.06	A16S
ATOM	22211	O2P	A	A1055	199.736	108.551	15.270	1.00	70.06	A16S
ATOM	22212	O5*	A	A1055	198.723	110.769	15.911	1.00	53.89	A16S
ATOM	22213	C5*	A	A1055	197.428	110.212	15.599	1.00	53.89	A16S
ATOM	22214	C4*	A	A1055	196.325	110.979	16.295	1.00	53.89	A16S
ATOM	22215	O4*	A	A1055	196.337	110.670	17.718	1.00	53.89	A16S
ATOM	22216	C1*	A	A1055	196.065	111.844	18.464	1.00	53.89	A16S
ATOM	22217	N9	A	A1055	197.296	112.218	19.178	1.00	70.06	A16S
ATOM	22218	C4	A	A1055	197.535	113.364	19.904	1.00	70.06	A16S
ATOM	22219	N3	A	A1055	196.683	114.368	20.154	1.00	70.06	A16S
ATOM	22220	C2	A	A1055	197.277	115.324	20.877	1.00	70.06	A16S
ATOM	22221	N1	A	A1055	198.531	115.390	21.330	1.00	70.06	A16S
ATOM	22222	C6	A	A1055	199.364	114.373	21.047	1.00	70.06	A16S
ATOM	22223	N6	A	A1055	200.623	114.454	21.463	1.00	70.06	A16S
ATOM	22224	C5	A	A1055	198.852	113.287	20.310	1.00	70.06	A16S
ATOM	22225	N7	A	A1055	199.427	112.104	19.879	1.00	70.06	A16S
ATOM	22226	C8	A	A1055	198.467	111.505	19.224	1.00	70.06	A16S
ATOM	22227	C2*	A	A1055	195.620	112.905	17.448	1.00	53.89	A16S
ATOM	22228	O2*	A	A1055	194.229	112.752	17.230	1.00	53.89	A16S
ATOM	22229	C3*	A	A1055	196.403	112.494	16.209	1.00	53.89	A16S
ATOM	22230	O3*	A	A1055	195.856	113.025	14.994	1.00	53.89	A16S
ATOM	22231	P	U	A1056	196.426	114.425	14.405	1.00	47.90	A16S
ATOM	22232	O1P	U	A1056	195.394	115.066	13.547	1.00	68.80	A16S
ATOM	22233	O2P	U	A1056	197.790	114.197	13.852	1.00	68.80	A16S
ATOM	22234	O5*	U	A1056	196.584	115.339	15.701	1.00	47.90	A16S
ATOM	22235	C5*	U	A1056	197.342	116.552	15.639	1.00	47.90	A16S
ATOM	22236	C4*	U	A1056	197.284	117.294	16.951	1.00	47.90	A16S
ATOM	22237	O4*	U	A1056	197.901	116.511	18.009	1.00	47.90	A16S
ATOM	22238	C1*	U	A1056	198.613	117.376	18.892	1.00	47.90	A16S
ATOM	22239	N1	U	A1056	200.018	116.925	18.982	1.00	68.80	A16S
ATOM	22240	C6	U	A1056	200.413	115.726	18.439	1.00	68.80	A16S
ATOM	22241	C2	U	A1056	200.946	117.746	19.629	1.00	68.80	A16S
ATOM	22242	O2	U	A1056	200.659	118.820	20.126	1.00	68.80	A16S
ATOM	22243	N3	U	A1056	202.229	117.260	19.662	1.00	68.80	A16S
ATOM	22244	C4	U	A1056	202.683	116.071	19.131	1.00	68.80	A16S
ATOM	22245	O4	U	A1056	203.883	115.779	19.220	1.00	68.80	A16S
ATOM	22246	C5	U	A1056	201.675	115.284	18.490	1.00	68.80	A16S

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ATOM	22247	C2*	U	A1056	198.434	118.813	18.384	1.00	47.90	A16S
ATOM	22248	O2*	U	A1056	197.418	119.483	19.105	1.00	47.90	A16S
ATOM	22249	C3*	U	A1056	198.076	118.586	16.923	1.00	47.90	A16S
ATOM	22250	O3*	U	A1056	197.324	119.652	16.373	1.00	47.90	A16S
ATOM	22251	P	G	A1057	198.096	120.910	15.744	1.00	51.64	A16S
ATOM	22252	O1P	G	A1057	197.116	121.793	15.054	1.00	75.68	A16S
ATOM	22253	O2P	G	A1057	199.264	120.378	14.988	1.00	75.68	A16S
ATOM	22254	O5*	G	A1057	198.656	121.677	17.027	1.00	51.64	A16S
ATOM	22255	C5*	G	A1057	197.758	122.257	17.995	1.00	51.64	A16S
ATOM	22256	C4*	G	A1057	198.516	123.146	18.951	1.00	51.64	A16S
ATOM	22257	O4*	G	A1057	199.370	122.329	19.786	1.00	51.64	A16S
ATOM	22258	C1*	G	A1057	200.579	123.028	20.056	1.00	51.64	A16S
ATOM	22259	N9	G	A1057	201.691	122.225	19.554	1.00	75.68	A16S
ATOM	22260	C4	G	A1057	203.004	122.283	19.962	1.00	75.68	A16S
ATOM	22261	N3	G	A1057	203.505	123.084	20.923	1.00	75.68	A16S
ATOM	22262	C2	G	A1057	204.799	122.883	21.101	1.00	75.68	A16S
ATOM	22263	N2	G	A1057	205.463	123.564	22.038	1.00	75.68	A16S
ATOM	22264	N1	G	A1057	205.542	121.991	20.379	1.00	75.68	A16S
ATOM	22265	C6	G	A1057	205.050	121.173	19.375	1.00	75.68	A16S
ATOM	22266	O6	G	A1057	205.813	120.422	18.764	1.00	75.68	A16S
ATOM	22267	C5	G	A1057	203.665	121.352	19.192	1.00	75.68	A16S
ATOM	22268	N7	G	A1057	202.789	120.718	18.325	1.00	75.68	A16S
ATOM	22269	C8	G	A1057	201.634	121.266	18.572	1.00	75.68	A16S
ATOM	22270	C2*	G	A1057	200.493	124.404	19.391	1.00	51.64	A16S
ATOM	22271	O2*	G	A1057	200.096	125.370	20.341	1.00	51.64	A16S
ATOM	22272	C3*	G	A1057	199.445	124.167	18.314	1.00	51.64	A16S
ATOM	22273	O3*	G	A1057	198.760	125.361	18.015	1.00	51.64	A16S
ATOM	22274	P	G	A1058	199.366	126.365	16.922	1.00	54.97	A16S
ATOM	22275	O1P	G	A1058	198.693	127.692	17.037	1.00	60.52	A16S
ATOM	22276	O2P	G	A1058	199.369	125.655	15.614	1.00	60.52	A16S
ATOM	22277	O5*	G	A1058	200.883	126.544	17.364	1.00	54.97	A16S
ATOM	22278	C5*	G	A1058	201.231	127.335	18.503	1.00	54.97	A16S
ATOM	22279	C4*	G	A1058	202.722	127.312	18.707	1.00	54.97	A16S
ATOM	22280	O4*	G	A1058	203.159	125.984	19.098	1.00	54.97	A16S
ATOM	22281	C1*	G	A1058	204.425	125.719	18.531	1.00	54.97	A16S
ATOM	22282	N9	G	A1058	204.290	124.571	17.640	1.00	60.52	A16S
ATOM	22283	C4	G	A1058	205.291	123.715	17.247	1.00	60.52	A16S
ATOM	22284	N3	G	A1058	206.572	123.755	17.659	1.00	60.52	A16S
ATOM	22285	C2	G	A1058	207.291	122.803	17.105	1.00	60.52	A16S
ATOM	22286	N2	G	A1058	208.582	122.667	17.428	1.00	60.52	A16S
ATOM	22287	N1	G	A1058	206.803	121.902	16.195	1.00	60.52	A16S
ATOM	22288	C6	G	A1058	205.495	121.855	15.741	1.00	60.52	A16S
ATOM	22289	O6	G	A1058	205.168	121.021	14.891	1.00	60.52	A16S
ATOM	22290	C5	G	A1058	204.701	122.847	16.354	1.00	60.52	A16S
ATOM	22291	N7	G	A1058	203.351	123.131	16.207	1.00	60.52	A16S
ATOM	22292	C8	G	A1058	203.150	124.154	16.993	1.00	60.52	A16S
ATOM	22293	C2*	G	A1058	204.864	126.972	17.762	1.00	54.97	A16S
ATOM	22294	O2*	G	A1058	205.701	127.771	18.571	1.00	54.97	A16S
ATOM	22295	C3*	G	A1058	203.532	127.645	17.471	1.00	54.97	A16S
ATOM	22296	O3*	G	A1058	203.648	129.051	17.317	1.00	54.97	A16S
ATOM	22297	P	C	A1059	203.659	129.692	15.847	1.00	56.91	A16S
ATOM	22298	O1P	C	A1059	203.647	131.182	15.960	1.00	66.36	A16S
ATOM	22299	O2P	C	A1059	202.609	129.004	15.051	1.00	66.36	A16S
ATOM	22300	O5*	C	A1059	205.085	129.261	15.293	1.00	56.91	A16S
ATOM	22301	C5*	C	A1059	206.289	129.710	15.950	1.00	56.91	A16S
ATOM	22302	C4*	C	A1059	207.486	128.901	15.495	1.00	56.91	A16S
ATOM	22303	O4*	C	A1059	207.377	127.536	15.978	1.00	56.91	A16S
ATOM	22304	C1*	C	A1059	207.867	126.645	14.995	1.00	56.91	A16S
ATOM	22305	N1	C	A1059	206.732	125.846	14.483	1.00	66.36	A16S
ATOM	22306	C6	C	A1059	205.460	126.351	14.475	1.00	66.36	A16S
ATOM	22307	C2	C	A1059	206.981	124.560	13.974	1.00	66.36	A16S
ATOM	22308	O2	C	A1059	208.137	124.112	14.005	1.00	66.36	A16S
ATOM	22309	N3	C	A1059	205.957	123.840	13.460	1.00	66.36	A16S
ATOM	22310	C4	C	A1059	204.726	124.349	13.446	1.00	66.36	A16S
ATOM	22311	N4	C	A1059	203.750	123.599	12.926	1.00	66.36	A16S
ATOM	22312	C5	C	A1059	204.439	125.647	13.967	1.00	66.36	A16S
ATOM	22313	C2*	C	A1059	208.475	127.499	13.882	1.00	56.91	A16S
ATOM	22314	O2*	C	A1059	209.821	127.793	14.181	1.00	56.91	A16S
ATOM	22315	C3*	C	A1059	207.649	128.761	13.993	1.00	56.91	A16S
ATOM	22316	O3*	C	A1059	208.286	129.871	13.389	1.00	56.91	A16S
ATOM	22317	P	C	A1060	207.929	130.236	11.862	1.00	57.25	A16S
ATOM	22318	O1P	C	A1060	208.567	131.544	11.512	1.00	54.31	A16S
ATOM	22319	O2P	C	A1060	206.454	130.079	11.699	1.00	54.31	A16S
ATOM	22320	O5*	C	A1060	208.656	129.069	11.040	1.00	57.25	A16S
ATOM	22321	C5*	C	A1060	210.088	128.873	11.151	1.00	57.25	A16S
ATOM	22322	C4*	C	A1060	210.548	127.658	10.362	1.00	57.25	A16S
ATOM	22323	O4*	C	A1060	210.054	126.431	10.959	1.00	57.25	A16S

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ATOM	22324	C1*	C	A1060	209.886	125.450	9.948	1.00	57.25	A16S
ATOM	22325	N1	C	A1060	208.465	125.062	9.895	1.00	54.31	A16S
ATOM	22326	C6	C	A1060	207.478	126.002	10.018	1.00	54.31	A16S
ATOM	22327	C2	C	A1060	208.131	123.713	9.696	1.00	54.31	A16S
ATOM	22328	O2	C	A1060	209.034	122.875	9.601	1.00	54.31	A16S
ATOM	22329	N3	C	A1060	206.831	123.365	9.610	1.00	54.31	A16S
ATOM	22330	C4	C	A1060	205.882	124.299	9.714	1.00	54.31	A16S
ATOM	22331	N4	C	A1060	204.612	123.917	9.596	1.00	54.31	A16S
ATOM	22332	C5	C	A1060	206.191	125.666	9.937	1.00	54.31	A16S
ATOM	22333	C2*	C	A1060	210.332	126.069	8.623	1.00	57.25	A16S
ATOM	22334	O2*	C	A1060	211.685	125.743	8.402	1.00	57.25	A16S
ATOM	22335	C3*	C	A1060	210.158	127.554	8.896	1.00	57.25	A16S
ATOM	22336	O3*	C	A1060	211.021	128.311	8.068	1.00	57.25	A16S
ATOM	22337	P	G	A1061	210.568	128.676	6.568	1.00	45.13	A16S
ATOM	22338	O1P	G	A1061	211.556	129.655	6.009	1.00	73.27	A16S
ATOM	22339	O2P	G	A1061	209.120	129.022	6.584	1.00	73.27	A16S
ATOM	22340	O5*	G	A1061	210.752	127.304	5.785	1.00	45.13	A16S
ATOM	22341	C5*	G	A1061	212.035	126.676	5.734	1.00	45.13	A16S
ATOM	22342	C4*	G	A1061	211.956	125.385	4.969	1.00	45.13	A16S
ATOM	22343	O4*	G	A1061	211.154	124.418	5.691	1.00	45.13	A16S
ATOM	22344	C1*	G	A1061	210.411	123.640	4.767	1.00	45.13	A16S
ATOM	22345	N9	G	A1061	208.989	123.841	5.044	1.00	73.27	A16S
ATOM	22346	C4	G	A1061	207.932	123.178	4.457	1.00	73.27	A16S
ATOM	22347	N3	G	A1061	208.023	122.216	3.517	1.00	73.27	A16S
ATOM	22348	C2	G	A1061	206.840	121.761	3.168	1.00	73.27	A16S
ATOM	22349	N2	G	A1061	206.747	120.792	2.260	1.00	73.27	A16S
ATOM	22350	N1	G	A1061	205.660	122.219	3.687	1.00	73.27	A16S
ATOM	22351	C6	G	A1061	205.543	123.213	4.649	1.00	73.27	A16S
ATOM	22352	O6	G	A1061	204.426	123.560	5.049	1.00	73.27	A16S
ATOM	22353	C5	G	A1061	206.803	123.703	5.042	1.00	73.27	A16S
ATOM	22354	N7	G	A1061	207.135	124.677	5.973	1.00	73.27	A16S
ATOM	22355	C8	G	A1061	208.438	124.727	5.941	1.00	73.27	A16S
ATOM	22356	C2*	G	A1061	210.815	124.088	3.358	1.00	45.13	A16S
ATOM	22357	O2*	G	A1061	211.870	123.287	2.872	1.00	45.13	A16S
ATOM	22358	C3*	G	A1061	211.302	125.499	3.613	1.00	45.13	A16S
ATOM	22359	O3*	G	A1061	212.241	125.874	2.650	1.00	45.13	A16S
ATOM	22360	P	U	A1062	211.773	126.788	1.434	1.00	52.60	A16S
ATOM	22361	O1P	U	A1062	212.969	126.937	0.545	1.00	71.27	A16S
ATOM	22362	O2P	U	A1062	211.114	127.999	1.994	1.00	71.27	A16S
ATOM	22363	O5*	U	A1062	210.648	125.907	0.718	1.00	52.60	A16S
ATOM	22364	C5*	U	A1062	210.949	124.598	0.175	1.00	52.60	A16S
ATOM	22365	C4*	U	A1062	209.704	123.955	-0.407	1.00	52.60	A16S
ATOM	22366	O4*	U	A1062	208.831	123.491	0.651	1.00	52.60	A16S
ATOM	22367	C1*	U	A1062	207.483	123.635	0.240	1.00	52.60	A16S
ATOM	22368	N1	U	A1062	206.781	124.481	1.217	1.00	71.27	A16S
ATOM	22369	C6	U	A1062	207.447	125.432	1.939	1.00	71.27	A16S
ATOM	22370	C2	U	A1062	205.419	124.299	1.375	1.00	71.27	A16S
ATOM	22371	O2	U	A1062	204.781	123.458	0.772	1.00	71.27	A16S
ATOM	22372	N3	U	A1062	204.826	125.141	2.269	1.00	71.27	A16S
ATOM	22373	C4	U	A1062	205.435	126.119	3.011	1.00	71.27	A16S
ATOM	22374	O4	U	A1062	204.760	126.797	3.788	1.00	71.27	A16S
ATOM	22375	C5	U	A1062	206.839	126.236	2.803	1.00	71.27	A16S
ATOM	22376	C2*	U	A1062	207.461	124.224	-1.180	1.00	52.60	A16S
ATOM	22377	O2*	U	A1062	207.223	123.221	-2.149	1.00	52.60	A16S
ATOM	22378	C3*	U	A1062	208.846	124.846	-1.295	1.00	52.60	A16S
ATOM	22379	O3*	U	A1062	209.296	124.772	-2.641	1.00	52.60	A16S
ATOM	22380	P	C	A1063	209.482	126.114	-3.505	1.00	38.62	A16S
ATOM	22381	O1P	C	A1063	210.748	125.949	-4.273	1.00	77.41	A16S
ATOM	22382	O2P	C	A1063	209.301	127.304	-2.628	1.00	77.41	A16S
ATOM	22383	O5*	C	A1063	208.280	126.071	-4.545	1.00	38.62	A16S
ATOM	22384	C5*	C	A1063	208.121	124.942	-5.416	1.00	38.62	A16S
ATOM	22385	C4*	C	A1063	206.664	124.725	-5.723	1.00	38.62	A16S
ATOM	22386	O4*	C	A1063	205.973	124.303	-4.520	1.00	38.62	A16S
ATOM	22387	C1*	C	A1063	204.677	124.873	-4.497	1.00	38.62	A16S
ATOM	22388	N1	C	A1063	204.557	125.696	-3.270	1.00	77.41	A16S
ATOM	22389	C6	C	A1063	205.550	126.568	-2.910	1.00	77.41	A16S
ATOM	22390	C2	C	A1063	203.410	125.575	-2.475	1.00	77.41	A16S
ATOM	22391	O2	C	A1063	202.527	124.772	-2.811	1.00	77.41	A16S
ATOM	22392	N3	C	A1063	203.295	126.333	-1.357	1.00	77.41	A16S
ATOM	22393	C4	C	A1063	204.271	127.177	-1.019	1.00	77.41	A16S
ATOM	22394	N4	C	A1063	204.118	127.897	0.088	1.00	77.41	A16S
ATOM	22395	C5	C	A1063	205.448	127.318	-1.803	1.00	77.41	A16S
ATOM	22396	C2*	C	A1063	204.489	125.660	-5.803	1.00	38.62	A16S
ATOM	22397	O2*	C	A1063	203.860	124.868	-6.788	1.00	38.62	A16S
ATOM	22398	C3*	C	A1063	205.922	125.959	-6.202	1.00	38.62	A16S
ATOM	22399	O3*	C	A1063	206.028	126.109	-7.601	1.00	38.62	A16S
ATOM	22400	P	G	A1064	205.731	127.534	-8.264	1.00	45.56	A16S

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ATOM	22401	O1P	G	A1064	204.270	127.780	-8.127	1.00	72.87	A16S
ATOM	22402	O2P	G	A1064	206.356	127.568	-9.620	1.00	72.87	A16S
ATOM	22403	O5*	G	A1064	206.537	128.533	-7.309	1.00	45.56	A16S
ATOM	22404	C5*	G	A1064	206.876	129.907	-7.693	1.00	45.56	A16S
ATOM	22405	C4*	G	A1064	207.142	130.737	-6.443	1.00	45.56	A16S
ATOM	22406	O4*	G	A1064	205.874	130.945	-5.760	1.00	45.56	A16S
ATOM	22407	C1*	G	A1064	205.943	130.377	-4.473	1.00	45.56	A16S
ATOM	22408	N9	G	A1064	204.641	129.825	-4.122	1.00	72.87	A16S
ATOM	22409	C4	G	A1064	203.947	130.102	-2.977	1.00	72.87	A16S
ATOM	22410	N3	G	A1064	204.343	130.942	-2.005	1.00	72.87	A16S
ATOM	22411	C2	G	A1064	203.486	130.981	-1.017	1.00	72.87	A16S
ATOM	22412	N2	G	A1064	203.734	131.754	0.021	1.00	72.87	A16S
ATOM	22413	N1	G	A1064	202.325	130.263	-0.979	1.00	72.87	A16S
ATOM	22414	C6	G	A1064	201.892	129.393	-1.970	1.00	72.87	A16S
ATOM	22415	O6	G	A1064	200.822	128.788	-1.836	1.00	72.87	A16S
ATOM	22416	C5	G	A1064	202.808	129.336	-3.041	1.00	72.87	A16S
ATOM	22417	N7	G	A1064	202.774	128.602	-4.216	1.00	72.87	A16S
ATOM	22418	C8	G	A1064	203.880	128.929	-4.830	1.00	72.87	A16S
ATOM	22419	C2*	G	A1064	207.079	129.354	-4.506	1.00	45.56	A16S
ATOM	22420	O2*	G	A1064	207.590	129.110	-3.216	1.00	45.56	A16S
ATOM	22421	C3*	G	A1064	208.074	130.050	-5.431	1.00	45.56	A16S
ATOM	22422	O3*	G	A1064	208.775	130.989	-4.594	1.00	45.56	A16S
ATOM	22423	P	U	A1065	210.175	131.652	-5.055	1.00	64.16	A16S
ATOM	22424	O1P	U	A1065	210.603	131.142	-6.381	1.00	65.45	A16S
ATOM	22425	O2P	U	A1065	211.115	131.614	-3.898	1.00	65.45	A16S
ATOM	22426	O5*	U	A1065	209.746	133.156	-5.291	1.00	64.16	A16S
ATOM	22427	C5*	U	A1065	208.513	133.404	-5.954	1.00	64.16	A16S
ATOM	22428	C4*	U	A1065	208.022	134.790	-5.682	1.00	64.16	A16S
ATOM	22429	O4*	U	A1065	207.624	135.018	-4.321	1.00	64.16	A16S
ATOM	22430	C1*	U	A1065	207.355	136.389	-4.248	1.00	64.16	A16S
ATOM	22431	N1	U	A1065	207.176	136.806	-2.852	1.00	65.45	A16S
ATOM	22432	C6	U	A1065	207.869	136.226	-1.818	1.00	65.45	A16S
ATOM	22433	C2	U	A1065	206.260	137.827	-2.615	1.00	65.45	A16S
ATOM	22434	O2	U	A1065	205.625	138.383	-3.512	1.00	65.45	A16S
ATOM	22435	N3	U	A1065	206.116	138.179	-1.297	1.00	65.45	A16S
ATOM	22436	C4	U	A1065	206.779	137.641	-0.220	1.00	65.45	A16S
ATOM	22437	O4	U	A1065	206.555	138.082	0.905	1.00	65.45	A16S
ATOM	22438	C5	U	A1065	207.707	136.603	-0.545	1.00	65.45	A16S
ATOM	22439	C2*	U	A1065	208.473	137.069	-5.045	1.00	64.16	A16S
ATOM	22440	O2*	U	A1065	207.950	138.186	-5.731	1.00	64.16	A16S
ATOM	22441	C3*	U	A1065	208.991	135.921	-5.937	1.00	64.16	A16S
ATOM	22442	O3*	U	A1065	209.129	136.143	-7.347	1.00	64.16	A16S
ATOM	22443	P	C	A1066	207.828	136.354	-8.280	1.00	57.52	A16S
ATOM	22444	O1P	C	A1066	208.365	136.476	-9.667	1.00	72.32	A16S
ATOM	22445	O2P	C	A1066	206.946	137.431	-7.744	1.00	72.32	A16S
ATOM	22446	O5*	C	A1066	207.028	134.975	-8.187	1.00	57.52	A16S
ATOM	22447	C5*	C	A1066	207.004	134.056	-9.294	1.00	57.52	A16S
ATOM	22448	C4*	C	A1066	205.647	133.394	-9.412	1.00	57.52	A16S
ATOM	22449	O4*	C	A1066	205.377	132.610	-8.230	1.00	57.52	A16S
ATOM	22450	C1*	C	A1066	203.987	132.546	-8.028	1.00	57.52	A16S
ATOM	22451	N1	C	A1066	203.698	132.792	-6.612	1.00	72.32	A16S
ATOM	22452	C6	C	A1066	204.549	133.521	-5.835	1.00	72.32	A16S
ATOM	22453	C2	C	A1066	202.543	132.245	-6.066	1.00	72.32	A16S
ATOM	22454	O2	C	A1066	201.766	131.620	-6.805	1.00	72.32	A16S
ATOM	22455	N3	C	A1066	202.293	132.411	-4.751	1.00	72.32	A16S
ATOM	22456	C4	C	A1066	203.140	133.106	-3.997	1.00	72.32	A16S
ATOM	22457	N4	C	A1066	202.861	133.234	-2.703	1.00	72.32	A16S
ATOM	22458	C5	C	A1066	204.311	133.699	-4.535	1.00	72.32	A16S
ATOM	22459	C2*	C	A1066	203.290	133.449	-9.048	1.00	57.52	A16S
ATOM	22460	O2*	C	A1066	202.758	132.620	-10.055	1.00	57.52	A16S
ATOM	22461	C3*	C	A1066	204.438	134.303	-9.577	1.00	57.52	A16S
ATOM	22462	O3*	C	A1066	204.248	134.542	-10.973	1.00	57.52	A16S
ATOM	22463	P	A	A1067	203.470	135.861	-11.477	1.00	55.11	A16S
ATOM	22464	O1P	A	A1067	203.237	135.785	-12.951	1.00	53.28	A16S
ATOM	22465	O2P	A	A1067	204.230	137.017	-10.921	1.00	53.28	A16S
ATOM	22466	O5*	A	A1067	202.032	135.740	-10.787	1.00	55.11	A16S
ATOM	22467	C5*	A	A1067	201.107	134.683	-11.157	1.00	55.11	A16S
ATOM	22468	C4*	A	A1067	199.666	135.124	-10.944	1.00	55.11	A16S
ATOM	22469	O4*	A	A1067	199.336	135.173	-9.529	1.00	55.11	A16S
ATOM	22470	C1*	A	A1067	199.199	136.507	-9.099	1.00	55.11	A16S
ATOM	22471	N9	A	A1067	200.201	136.691	-8.055	1.00	53.28	A16S
ATOM	22472	C4	A	A1067	200.042	136.514	-6.705	1.00	53.28	A16S
ATOM	22473	N3	A	A1067	198.917	136.196	-6.052	1.00	53.28	A16S
ATOM	22474	C2	A	A1067	199.151	136.086	-4.741	1.00	53.28	A16S
ATOM	22475	N1	A	A1067	200.296	136.247	-4.061	1.00	53.28	A16S
ATOM	22476	C6	A	A1067	201.409	136.566	-4.749	1.00	53.28	A16S
ATOM	22477	N6	A	A1067	202.552	136.723	-4.075	1.00	53.28	A16S

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ATOM	22478	C5	A	A1067	201.294	136.713	-6.147	1.00	53.28	A16S
ATOM	22479	N7	A	A1067	202.218	137.037	-7.124	1.00	53.28	A16S
ATOM	22480	C8	A	A1067	201.518	137.023	-8.231	1.00	53.28	A16S
ATOM	22481	C2*	A	A1067	199.447	137.420	-10.300	1.00	55.11	A16S
ATOM	22482	O2*	A	A1067	198.632	138.561	-10.298	1.00	55.11	A16S
ATOM	22483	C3*	A	A1067	199.309	136.484	-11.508	1.00	55.11	A16S
ATOM	22484	O3*	A	A1067	198.089	136.421	-12.288	1.00	55.11	A16S
ATOM	22485	P	G	A1068	196.643	136.247	-11.584	1.00	37.70	A16S
ATOM	22486	O1P	G	A1068	195.593	136.630	-12.589	1.00	52.84	A16S
ATOM	22487	O2P	G	A1068	196.678	136.919	-10.276	1.00	52.84	A16S
ATOM	22488	O5*	G	A1068	196.511	134.694	-11.265	1.00	37.70	A16S
ATOM	22489	C5*	G	A1068	195.440	134.217	-10.438	1.00	37.70	A16S
ATOM	22490	C4*	G	A1068	195.990	133.689	-9.140	1.00	37.70	A16S
ATOM	22491	O4*	G	A1068	196.775	134.728	-8.506	1.00	37.70	A16S
ATOM	22492	C1*	G	A1068	196.559	134.708	-7.099	1.00	37.70	A16S
ATOM	22493	N9	G	A1068	195.976	135.997	-6.711	1.00	52.84	A16S
ATOM	22494	C4	G	A1068	195.504	136.360	-5.469	1.00	52.84	A16S
ATOM	22495	N3	G	A1068	195.495	135.590	-4.363	1.00	52.84	A16S
ATOM	22496	C2	G	A1068	194.951	136.220	-3.336	1.00	52.84	A16S
ATOM	22497	N2	G	A1068	194.849	135.615	-2.150	1.00	52.84	A16S
ATOM	22498	N1	G	A1068	194.464	137.494	-3.391	1.00	52.84	A16S
ATOM	22499	C6	G	A1068	194.475	138.305	-4.517	1.00	52.84	A16S
ATOM	22500	O6	G	A1068	194.023	139.452	-4.458	1.00	52.84	A16S
ATOM	22501	C5	G	A1068	195.042	137.652	-5.620	1.00	52.84	A16S
ATOM	22502	N7	G	A1068	195.224	138.097	-6.918	1.00	52.84	A16S
ATOM	22503	C8	G	A1068	195.781	137.089	-7.527	1.00	52.84	A16S
ATOM	22504	C2*	G	A1068	195.667	133.504	-6.782	1.00	37.70	A16S
ATOM	22505	O2*	G	A1068	196.479	132.415	-6.410	1.00	37.70	A16S
ATOM	22506	C3*	G	A1068	194.938	133.298	-8.111	1.00	37.70	A16S
ATOM	22507	O3*	G	A1068	194.476	131.955	-8.313	1.00	37.70	A16S
ATOM	22508	P	C	A1069	192.895	131.646	-8.326	1.00	58.26	A16S
ATOM	22509	O1P	C	A1069	192.720	130.237	-8.744	1.00	47.19	A16S
ATOM	22510	O2P	C	A1069	192.201	132.732	-9.094	1.00	47.19	A16S
ATOM	22511	O5*	C	A1069	192.507	131.707	-6.781	1.00	58.26	A16S
ATOM	22512	C5*	C	A1069	193.054	130.746	-5.855	1.00	58.26	A16S
ATOM	22513	C4*	C	A1069	192.611	131.043	-4.430	1.00	58.26	A16S
ATOM	22514	O4*	C	A1069	193.238	132.258	-3.949	1.00	58.26	A16S
ATOM	22515	C1*	C	A1069	192.365	132.925	-3.056	1.00	58.26	A16S
ATOM	22516	N1	C	A1069	192.041	134.240	-3.629	1.00	47.19	A16S
ATOM	22517	C6	C	A1069	192.093	134.451	-4.979	1.00	47.19	A16S
ATOM	22518	C2	C	A1069	191.676	135.275	-2.771	1.00	47.19	A16S
ATOM	22519	O2	C	A1069	191.655	135.057	-1.544	1.00	47.19	A16S
ATOM	22520	N3	C	A1069	191.360	136.491	-3.294	1.00	47.19	A16S
ATOM	22521	C4	C	A1069	191.405	136.681	-4.618	1.00	47.19	A16S
ATOM	22522	N4	C	A1069	191.067	137.889	-5.102	1.00	47.19	A16S
ATOM	22523	C5	C	A1069	191.790	135.644	-5.510	1.00	47.19	A16S
ATOM	22524	C2*	C	A1069	191.127	132.051	-2.875	1.00	58.26	A16S
ATOM	22525	O2*	C	A1069	191.314	131.226	-1.740	1.00	58.26	A16S
ATOM	22526	C3*	C	A1069	191.125	131.255	-4.175	1.00	58.26	A16S
ATOM	22527	O3*	C	A1069	190.412	130.026	-4.045	1.00	58.26	A16S
ATOM	22528	P	U	A1070	188.816	130.028	-4.188	1.00	54.50	A16S
ATOM	22529	O1P	U	A1070	188.341	128.648	-3.932	1.00	46.68	A16S
ATOM	22530	O2P	U	A1070	188.447	130.727	-5.454	1.00	46.68	A16S
ATOM	22531	O5*	U	A1070	188.373	130.926	-2.960	1.00	54.50	A16S
ATOM	22532	C5*	U	A1070	187.277	131.829	-3.062	1.00	54.50	A16S
ATOM	22533	C4*	U	A1070	187.199	132.676	-1.820	1.00	54.50	A16S
ATOM	22534	O4*	U	A1070	188.252	133.675	-1.839	1.00	54.50	A16S
ATOM	22535	C1*	U	A1070	187.756	134.900	-1.337	1.00	54.50	A16S
ATOM	22536	N1	U	A1070	187.717	135.858	-2.450	1.00	46.68	A16S
ATOM	22537	C6	U	A1070	187.941	135.460	-3.741	1.00	46.68	A16S
ATOM	22538	C2	U	A1070	187.453	137.169	-2.161	1.00	46.68	A16S
ATOM	22539	O2	U	A1070	187.218	137.553	-1.035	1.00	46.68	A16S
ATOM	22540	N3	U	A1070	187.465	138.019	-3.239	1.00	46.68	A16S
ATOM	22541	C4	U	A1070	187.707	137.690	-4.555	1.00	46.68	A16S
ATOM	22542	O4	U	A1070	187.833	138.583	-5.398	1.00	46.68	A16S
ATOM	22543	C5	U	A1070	187.940	136.307	-4.774	1.00	46.68	A16S
ATOM	22544	C2*	U	A1070	186.364	134.617	-0.784	1.00	54.50	A16S
ATOM	22545	O2*	U	A1070	186.540	134.198	0.552	1.00	54.50	A16S
ATOM	22546	C3*	U	A1070	185.920	133.473	-1.680	1.00	54.50	A16S
ATOM	22547	O3*	U	A1070	184.931	132.636	-1.108	1.00	54.50	A16S
ATOM	22548	P	C	A1071	183.379	132.879	-1.453	1.00	54.98	A16S
ATOM	22549	O1P	C	A1071	182.686	131.614	-1.080	1.00	45.96	A16S
ATOM	22550	O2P	C	A1071	183.198	133.434	-2.827	1.00	45.96	A16S
ATOM	22551	O5*	C	A1071	182.992	134.016	-0.407	1.00	54.98	A16S
ATOM	22552	C5*	C	A1071	183.406	133.920	0.986	1.00	54.98	A16S
ATOM	22553	C4*	C	A1071	183.309	135.274	1.664	1.00	54.98	A16S
ATOM	22554	O4*	C	A1071	184.308	136.172	1.119	1.00	54.98	A16S

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ATOM	22555	C1*	C	A1071	183.764	137.470	0.994	1.00	54.98	A16S
ATOM	22556	N1	C	A1071	183.758	137.833	-0.426	1.00	45.96	A16S
ATOM	22557	C6	C	A1071	184.018	136.904	-1.394	1.00	45.96	A16S
ATOM	22558	C2	C	A1071	183.497	139.161	-0.775	1.00	45.96	A16S
ATOM	22559	O2	C	A1071	183.210	139.973	0.125	1.00	45.96	A16S
ATOM	22560	N3	C	A1071	183.554	139.528	-2.079	1.00	45.96	A16S
ATOM	22561	C4	C	A1071	183.844	138.620	-3.011	1.00	45.96	A16S
ATOM	22562	N4	C	A1071	183.929	139.030	-4.277	1.00	45.96	A16S
ATOM	22563	C5	C	A1071	184.070	137.250	-2.686	1.00	45.96	A16S
ATOM	22564	C2*	C	A1071	182.358	137.461	1.583	1.00	54.98	A16S
ATOM	22565	O2*	C	A1071	182.426	137.942	2.908	1.00	54.98	A16S
ATOM	22566	C3*	C	A1071	181.986	135.990	1.448	1.00	54.98	A16S
ATOM	22567	O3*	C	A1071	181.000	135.554	2.371	1.00	54.98	A16S
ATOM	22568	P	G	A1072	179.451	135.582	1.945	1.00	50.46	A16S
ATOM	22569	O1P	G	A1072	178.735	134.928	3.076	1.00	50.19	A16S
ATOM	22570	O2P	G	A1072	179.266	135.065	0.568	1.00	50.19	A16S
ATOM	22571	O5*	G	A1072	179.104	137.137	1.917	1.00	50.46	A16S
ATOM	22572	C5*	G	A1072	179.155	137.912	3.122	1.00	50.46	A16S
ATOM	22573	C4*	G	A1072	178.683	139.314	2.862	1.00	50.46	A16S
ATOM	22574	O4*	G	A1072	179.684	140.062	2.126	1.00	50.46	A16S
ATOM	22575	C1*	G	A1072	179.040	141.003	1.285	1.00	50.46	A16S
ATOM	22576	N9	G	A1072	179.444	140.762	-0.098	1.00	50.19	A16S
ATOM	22577	C4	G	A1072	179.460	141.693	-1.112	1.00	50.19	A16S
ATOM	22578	N3	G	A1072	179.128	142.995	-0.999	1.00	50.19	A16S
ATOM	22579	C2	G	A1072	179.211	143.633	-2.157	1.00	50.19	A16S
ATOM	22580	N2	G	A1072	178.901	144.936	-2.222	1.00	50.19	A16S
ATOM	22581	N1	G	A1072	179.597	143.038	-3.332	1.00	50.19	A16S
ATOM	22582	C6	G	A1072	179.944	141.698	-3.471	1.00	50.19	A16S
ATOM	22583	O6	G	A1072	180.266	141.258	-4.573	1.00	50.19	A16S
ATOM	22584	C5	G	A1072	179.858	141.002	-2.237	1.00	50.19	A16S
ATOM	22585	N7	G	A1072	180.102	139.667	-1.938	1.00	50.19	A16S
ATOM	22586	C8	G	A1072	179.852	139.572	-0.659	1.00	50.19	A16S
ATOM	22587	C2*	G	A1072	177.527	140.839	1.474	1.00	50.46	A16S
ATOM	22588	O2*	G	A1072	177.051	141.785	2.408	1.00	50.46	A16S
ATOM	22589	C3*	G	A1072	177.428	139.425	2.023	1.00	50.46	A16S
ATOM	22590	O3*	G	A1072	176.256	139.234	2.800	1.00	50.46	A16S
ATOM	22591	P	U	A1073	174.969	138.523	2.137	1.00	44.28	A16S
ATOM	22592	O1P	U	A1073	173.999	138.260	3.245	1.00	66.32	A16S
ATOM	22593	O2P	U	A1073	175.434	137.383	1.294	1.00	66.32	A16S
ATOM	22594	O5*	U	A1073	174.394	139.640	1.147	1.00	44.28	A16S
ATOM	22595	C5*	U	A1073	173.694	140.786	1.654	1.00	44.28	A16S
ATOM	22596	C4*	U	A1073	173.521	141.817	0.570	1.00	44.28	A16S
ATOM	22597	O4*	U	A1073	174.829	142.252	0.113	1.00	44.28	A16S
ATOM	22598	C1*	U	A1073	174.768	142.586	-1.269	1.00	44.28	A16S
ATOM	22599	N1	U	A1073	175.681	141.706	-2.020	1.00	66.32	A16S
ATOM	22600	C6	U	A1073	176.063	140.483	-1.529	1.00	66.32	A16S
ATOM	22601	C2	U	A1073	176.113	142.134	-3.267	1.00	66.32	A16S
ATOM	22602	O2	U	A1073	175.848	143.227	-3.720	1.00	66.32	A16S
ATOM	22603	N3	U	A1073	176.873	141.232	-3.960	1.00	66.32	A16S
ATOM	22604	C4	U	A1073	177.259	139.982	-3.543	1.00	66.32	A16S
ATOM	22605	O4	U	A1073	177.930	139.267	-4.298	1.00	66.32	A16S
ATOM	22606	C5	U	A1073	176.814	139.631	-2.226	1.00	66.32	A16S
ATOM	22607	C2*	U	A1073	173.325	142.365	-1.733	1.00	44.28	A16S
ATOM	22608	O2*	U	A1073	172.631	143.591	-1.757	1.00	44.28	A16S
ATOM	22609	C3*	U	A1073	172.819	141.365	-0.699	1.00	44.28	A16S
ATOM	22610	O3*	U	A1073	171.407	141.357	-0.598	1.00	44.28	A16S
ATOM	22611	P	G	A1074	170.559	140.329	-1.501	1.00	41.41	A16S
ATOM	22612	O1P	G	A1074	169.113	140.493	-1.186	1.00	47.27	A16S
ATOM	22613	O2P	G	A1074	171.190	139.001	-1.323	1.00	47.27	A16S
ATOM	22614	O5*	G	A1074	170.776	140.874	-2.984	1.00	41.41	A16S
ATOM	22615	C5*	G	A1074	170.351	142.198	-3.305	1.00	41.41	A16S
ATOM	22616	C4*	G	A1074	170.737	142.575	-4.708	1.00	41.41	A16S
ATOM	22617	O4*	G	A1074	172.174	142.729	-4.820	1.00	41.41	A16S
ATOM	22618	C1*	G	A1074	172.598	142.325	-6.120	1.00	41.41	A16S
ATOM	22619	N9	G	A1074	173.466	141.155	-5.971	1.00	47.27	A16S
ATOM	22620	C4	G	A1074	174.262	140.587	-6.931	1.00	47.27	A16S
ATOM	22621	N3	G	A1074	174.388	141.010	-8.202	1.00	47.27	A16S
ATOM	22622	C2	G	A1074	175.261	140.281	-8.875	1.00	47.27	A16S
ATOM	22623	N2	G	A1074	175.532	140.581	-10.159	1.00	47.27	A16S
ATOM	22624	N1	G	A1074	175.942	139.206	-8.339	1.00	47.27	A16S
ATOM	22625	C6	G	A1074	175.819	138.750	-7.028	1.00	47.27	A16S
ATOM	22626	O6	G	A1074	176.484	137.763	-6.632	1.00	47.27	A16S
ATOM	22627	C5	G	A1074	174.897	139.534	-6.302	1.00	47.27	A16S
ATOM	22628	N7	G	A1074	174.498	139.436	-4.983	1.00	47.27	A16S
ATOM	22629	C8	G	A1074	173.651	140.412	-4.831	1.00	47.27	A16S
ATOM	22630	C2*	G	A1074	171.336	142.003	-6.919	1.00	41.41	A16S
ATOM	22631	O2*	G	A1074	170.906	143.170	-7.596	1.00	41.41	A16S

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ATOM	22632	C3*	G	A1074	170.375	141.600	-5.807	1.00	41.41	A16S
ATOM	22633	O3*	G	A1074	169.029	141.714	-6.202	1.00	41.41	A16S
ATOM	22634	P	C	A1075	168.279	140.426	-6.794	1.00	46.60	A16S
ATOM	22635	O1P	C	A1075	166.874	140.797	-7.183	1.00	45.64	A16S
ATOM	22636	O2P	C	A1075	168.521	139.335	-5.794	1.00	45.64	A16S
ATOM	22637	O5*	C	A1075	169.060	140.133	-8.150	1.00	46.60	A16S
ATOM	22638	C5*	C	A1075	168.979	141.069	-9.246	1.00	46.60	A16S
ATOM	22639	C4*	C	A1075	169.779	140.574	-10.430	1.00	46.60	A16S
ATOM	22640	O4*	C	A1075	171.198	140.664	-10.145	1.00	46.60	A16S
ATOM	22641	C1*	C	A1075	171.871	139.562	-10.724	1.00	46.60	A16S
ATOM	22642	N1	C	A1075	172.381	138.719	-9.634	1.00	45.64	A16S
ATOM	22643	C6	C	A1075	171.835	138.784	-8.387	1.00	45.64	A16S
ATOM	22644	C2	C	A1075	173.413	137.827	-9.902	1.00	45.64	A16S
ATOM	22645	O2	C	A1075	173.925	137.829	-11.029	1.00	45.64	A16S
ATOM	22646	N3	C	A1075	173.832	136.992	-8.929	1.00	45.64	A16S
ATOM	22647	C4	C	A1075	173.267	137.045	-7.727	1.00	45.64	A16S
ATOM	22648	N4	C	A1075	173.682	136.193	-6.803	1.00	45.64	A16S
ATOM	22649	C5	C	A1075	172.243	137.974	-7.417	1.00	45.64	A16S
ATOM	22650	O2*	C	A1075	170.848	138.788	-11.550	1.00	46.60	A16S
ATOM	22651	C2*	C	A1075	170.842	139.289	-12.867	1.00	46.60	A16S
ATOM	22652	C3*	C	A1075	169.562	139.125	-10.822	1.00	46.60	A16S
ATOM	22653	O3*	C	A1075	168.434	138.961	-11.647	1.00	46.60	A16S
ATOM	22654	P	C	A1076	167.645	137.572	-11.604	1.00	48.34	A16S
ATOM	22655	O1P	C	A1076	166.405	137.742	-12.406	1.00	31.85	A16S
ATOM	22656	O2P	C	A1076	167.562	137.089	-10.200	1.00	31.85	A16S
ATOM	22657	O5*	C	A1076	168.599	136.575	-12.397	1.00	48.34	A16S
ATOM	22658	C5*	C	A1076	168.812	136.734	-13.820	1.00	48.34	A16S
ATOM	22659	C4*	C	A1076	169.628	135.584	-14.364	1.00	48.34	A16S
ATOM	22660	O4*	C	A1076	170.975	135.634	-13.834	1.00	48.34	A16S
ATOM	22661	C1*	C	A1076	171.443	134.321	-13.622	1.00	48.34	A16S
ATOM	22662	N1	C	A1076	171.664	134.140	-12.190	1.00	31.85	A16S
ATOM	22663	C6	C	A1076	171.136	135.005	-11.284	1.00	31.85	A16S
ATOM	22664	C2	C	A1076	172.410	133.050	-11.764	1.00	31.85	A16S
ATOM	22665	O2	C	A1076	172.903	132.303	-12.610	1.00	31.85	A16S
ATOM	22666	N3	C	A1076	172.582	132.832	-10.448	1.00	31.85	A16S
ATOM	22667	C4	C	A1076	172.044	133.666	-9.567	1.00	31.85	A16S
ATOM	22668	N4	C	A1076	172.209	133.399	-8.274	1.00	31.85	A16S
ATOM	22669	C5	C	A1076	171.301	134.811	-9.973	1.00	31.85	A16S
ATOM	22670	C2*	C	A1076	170.373	133.357	-14.123	1.00	48.34	A16S
ATOM	22671	O2*	C	A1076	170.638	133.044	-15.471	1.00	48.34	A16S
ATOM	22672	C3*	C	A1076	169.125	134.202	-13.997	1.00	48.34	A16S
ATOM	22673	O3*	C	A1076	168.115	133.769	-14.883	1.00	48.34	A16S
ATOM	22674	P	G	A1077	166.925	132.847	-14.326	1.00	38.82	A16S
ATOM	22675	O1P	G	A1077	166.015	132.595	-15.485	1.00	52.33	A16S
ATOM	22676	O2P	G	A1077	166.400	133.454	-13.076	1.00	52.33	A16S
ATOM	22677	O5*	G	A1077	167.650	131.491	-13.924	1.00	38.82	A16S
ATOM	22678	C5*	G	A1077	168.275	130.696	-14.933	1.00	38.82	A16S
ATOM	22679	C4*	G	A1077	169.004	129.529	-14.324	1.00	38.82	A16S
ATOM	22680	O4*	G	A1077	170.166	129.976	-13.581	1.00	38.82	A16S
ATOM	22681	C1*	G	A1077	170.509	128.990	-12.626	1.00	38.82	A16S
ATOM	22682	N9	G	A1077	170.542	129.604	-11.310	1.00	52.33	A16S
ATOM	22683	C4	G	A1077	171.172	129.107	-10.204	1.00	52.33	A16S
ATOM	22684	N3	G	A1077	171.968	128.024	-10.169	1.00	52.33	A16S
ATOM	22685	C2	G	A1077	172.369	127.749	-8.940	1.00	52.33	A16S
ATOM	22686	N2	G	A1077	173.190	126.714	-8.715	1.00	52.33	A16S
ATOM	22687	N1	G	A1077	171.997	128.470	-7.838	1.00	52.33	A16S
ATOM	22688	C6	G	A1077	171.167	129.583	-7.856	1.00	52.33	A16S
ATOM	22689	O6	G	A1077	170.853	130.139	-6.795	1.00	52.33	A16S
ATOM	22690	C5	G	A1077	170.766	129.908	-9.165	1.00	52.33	A16S
ATOM	22691	N7	G	A1077	169.974	130.943	-9.624	1.00	52.33	A16S
ATOM	22692	C8	G	A1077	169.883	130.732	-10.906	1.00	52.33	A16S
ATOM	22693	C2*	G	A1077	169.413	127.915	-12.659	1.00	38.82	A16S
ATOM	22694	O2*	G	A1077	169.841	126.784	-13.402	1.00	38.82	A16S
ATOM	22695	C3*	G	A1077	168.262	128.655	-13.331	1.00	38.82	A16S
ATOM	22696	O3*	G	A1077	167.339	127.763	-13.953	1.00	38.82	A16S
ATOM	22697	P	U	A1078	165.859	127.597	-13.331	1.00	34.21	A16S
ATOM	22698	O1P	U	A1078	165.125	126.521	-14.047	1.00	55.73	A16S
ATOM	22699	O2P	U	A1078	165.262	128.965	-13.260	1.00	55.73	A16S
ATOM	22700	O5*	U	A1078	166.161	127.032	-11.869	1.00	34.21	A16S
ATOM	22701	C5*	U	A1078	165.201	127.176	-10.835	1.00	34.21	A16S
ATOM	22702	C4*	U	A1078	165.164	125.947	-9.977	1.00	34.21	A16S
ATOM	22703	O4*	U	A1078	164.871	124.780	-10.782	1.00	34.21	A16S
ATOM	22704	C1*	U	A1078	165.484	123.645	-10.192	1.00	34.21	A16S
ATOM	22705	N1	U	A1078	166.319	122.974	-11.195	1.00	55.73	A16S
ATOM	22706	C6	U	A1078	166.751	123.624	-12.319	1.00	55.73	A16S
ATOM	22707	C2	U	A1078	166.656	121.659	-10.964	1.00	55.73	A16S
ATOM	22708	O2	U	A1078	166.306	121.060	-9.970	1.00	55.73	A16S

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ATOM	22709	N3	U	A1078	167.425	121.074	-11.938	1.00	55.73	A16S
ATOM	22710	C4	U	A1078	167.890	121.669	-13.094	1.00	55.73	A16S
ATOM	22711	O4	U	A1078	168.580	121.020	-13.883	1.00	55.73	A16S
ATOM	22712	C5	U	A1078	167.507	123.035	-13.250	1.00	55.73	A16S
ATOM	22713	C2*	U	A1078	166.287	124.117	-8.978	1.00	34.21	A16S
ATOM	22714	O2*	U	A1078	165.518	123.885	-7.819	1.00	34.21	A16S
ATOM	22715	C3*	U	A1078	166.452	125.603	-9.266	1.00	34.21	A16S
ATOM	22716	O3*	U	A1078	166.547	126.351	-8.077	1.00	34.21	A16S
ATOM	22717	P	G	A1079	167.897	127.152	-7.772	1.00	37.57	A16S
ATOM	22718	O1P	G	A1079	167.789	127.917	-6.486	1.00	39.08	A16S
ATOM	22719	O2P	G	A1079	168.207	127.884	-9.035	1.00	39.08	A16S
ATOM	22720	O5*	G	A1079	168.938	125.978	-7.524	1.00	37.57	A16S
ATOM	22721	C5*	G	A1079	168.650	124.979	-6.543	1.00	37.57	A16S
ATOM	22722	C4*	G	A1079	169.618	123.836	-6.658	1.00	37.57	A16S
ATOM	22723	O4*	G	A1079	169.386	123.105	-7.884	1.00	37.57	A16S
ATOM	22724	C1*	G	A1079	170.618	122.656	-8.415	1.00	37.57	A16S
ATOM	22725	N9	G	A1079	170.743	123.227	-9.751	1.00	39.08	A16S
ATOM	22726	C4	G	A1079	171.181	122.592	-10.886	1.00	39.08	A16S
ATOM	22727	N3	G	A1079	171.671	121.341	-10.956	1.00	39.08	A16S
ATOM	22728	C2	G	A1079	171.930	120.982	-12.206	1.00	39.08	A16S
ATOM	22729	N2	G	A1079	172.424	119.757	-12.456	1.00	39.08	A16S
ATOM	22730	N1	G	A1079	171.722	121.798	-13.304	1.00	39.08	A16S
ATOM	22731	C6	G	A1079	171.226	123.096	-13.246	1.00	39.08	A16S
ATOM	22732	O6	G	A1079	171.066	123.748	-14.281	1.00	39.08	A16S
ATOM	22733	C5	G	A1079	170.955	123.489	-11.914	1.00	39.08	A16S
ATOM	22734	N7	G	A1079	170.462	124.686	-11.422	1.00	39.08	A16S
ATOM	22735	C8	G	A1079	170.368	124.491	-10.137	1.00	39.08	A16S
ATOM	22736	C2*	G	A1079	171.709	123.050	-7.422	1.00	37.57	A16S
ATOM	22737	O2*	G	A1079	171.897	121.957	-6.542	1.00	37.57	A16S
ATOM	22738	C3*	G	A1079	171.071	124.237	-6.716	1.00	37.57	A16S
ATOM	22739	O3*	G	A1079	171.571	124.425	-5.418	1.00	37.57	A16S
ATOM	22740	P	A	A1080	172.911	125.269	-5.221	1.00	41.83	A16S
ATOM	22741	O1P	A	A1080	173.184	125.445	-3.763	1.00	33.61	A16S
ATOM	22742	O2P	A	A1080	172.833	126.454	-6.111	1.00	33.61	A16S
ATOM	22743	O5*	A	A1080	174.038	124.289	-5.763	1.00	41.83	A16S
ATOM	22744	C5*	A	A1080	174.391	123.110	-5.013	1.00	41.83	A16S
ATOM	22745	C4*	A	A1080	175.494	122.356	-5.705	1.00	41.83	A16S
ATOM	22746	O4*	A	A1080	175.011	121.790	-6.941	1.00	41.83	A16S
ATOM	22747	C1*	A	A1080	176.042	121.802	-7.895	1.00	41.83	A16S
ATOM	22748	N9	A	A1080	175.592	122.607	-9.016	1.00	33.61	A16S
ATOM	22749	C4	A	A1080	175.433	122.178	-10.311	1.00	33.61	A16S
ATOM	22750	N3	A	A1080	175.683	120.955	-10.801	1.00	33.61	A16S
ATOM	22751	C2	A	A1080	175.403	120.903	-12.102	1.00	33.61	A16S
ATOM	22752	N1	A	A1080	174.932	121.856	-12.900	1.00	33.61	A16S
ATOM	22753	C6	A	A1080	174.677	123.073	-12.368	1.00	33.61	A16S
ATOM	22754	N6	A	A1080	174.168	124.025	-13.155	1.00	33.61	A16S
ATOM	22755	C5	A	A1080	174.949	123.263	-11.009	1.00	33.61	A16S
ATOM	22756	N7	A	A1080	174.822	124.365	-10.176	1.00	33.61	A16S
ATOM	22757	C8	A	A1080	175.219	123.925	-9.007	1.00	33.61	A16S
ATOM	22758	C2*	A	A1080	177.291	122.362	-7.227	1.00	41.83	A16S
ATOM	22759	O2*	A	A1080	177.990	121.251	-6.725	1.00	41.83	A16S
ATOM	22760	C3*	A	A1080	176.703	123.181	-6.093	1.00	41.83	A16S
ATOM	22761	O3*	A	A1080	177.589	123.250	-4.977	1.00	41.83	A16S
ATOM	22762	P	G	A1081	178.617	124.485	-4.833	1.00	34.44	A16S
ATOM	22763	O1P	G	A1081	179.604	124.075	-3.782	1.00	49.85	A16S
ATOM	22764	O2P	G	A1081	177.855	125.762	-4.668	1.00	49.85	A16S
ATOM	22765	O5*	G	A1081	179.329	124.517	-6.259	1.00	34.44	A16S
ATOM	22766	C5*	G	A1081	179.759	125.744	-6.835	1.00	34.44	A16S
ATOM	22767	C4*	G	A1081	179.253	125.841	-8.238	1.00	34.44	A16S
ATOM	22768	O4*	G	A1081	177.808	125.705	-8.221	1.00	34.44	A16S
ATOM	22769	C1*	G	A1081	177.237	126.608	-9.163	1.00	34.44	A16S
ATOM	22770	N9	G	A1081	176.453	127.617	-8.438	1.00	49.85	A16S
ATOM	22771	C4	G	A1081	175.726	128.650	-8.998	1.00	49.85	A16S
ATOM	22772	N3	G	A1081	175.593	128.903	-10.311	1.00	49.85	A16S
ATOM	22773	C2	G	A1081	174.860	129.973	-10.533	1.00	49.85	A16S
ATOM	22774	N2	G	A1081	174.651	130.392	-11.773	1.00	49.85	A16S
ATOM	22775	N1	G	A1081	174.283	130.720	-9.560	1.00	49.85	A16S
ATOM	22776	C6	G	A1081	174.385	130.473	-8.201	1.00	49.85	A16S
ATOM	22777	O6	G	A1081	173.786	131.202	-7.397	1.00	49.85	A16S
ATOM	22778	C5	G	A1081	175.196	129.344	-7.935	1.00	49.85	A16S
ATOM	22779	N7	G	A1081	175.573	128.769	-6.724	1.00	49.85	A16S
ATOM	22780	C8	G	A1081	176.309	127.746	-7.069	1.00	49.85	A16S
ATOM	22781	C2*	G	A1081	178.395	127.263	-9.925	1.00	34.44	A16S
ATOM	22782	O2*	G	A1081	178.680	126.523	-11.090	1.00	34.44	A16S
ATOM	22783	C3*	G	A1081	179.510	127.186	-8.894	1.00	34.44	A16S
ATOM	22784	O3*	G	A1081	180.817	127.302	-9.441	1.00	34.44	A16S
ATOM	22785	P	G	A1082	181.616	128.701	-9.302	1.00	36.41	A16S

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ATOM	22786	O1P	G	A1082	183.028	128.432	-9.679	1.00	54.03	A16S
ATOM	22787	O2P	G	A1082	181.326	129.306	-7.977	1.00	54.03	A16S
ATOM	22788	O5*	G	A1082	180.959	129.600	-10.440	1.00	36.41	A16S
ATOM	22789	C5*	G	A1082	180.896	129.093	-11.770	1.00	36.41	A16S
ATOM	22790	C4*	G	A1082	179.967	129.907	-12.613	1.00	36.41	A16S
ATOM	22791	O4*	G	A1082	178.619	129.802	-12.107	1.00	36.41	A16S
ATOM	22792	C1*	G	A1082	177.924	131.016	-12.360	1.00	36.41	A16S
ATOM	22793	N9	G	A1082	177.531	131.626	-11.087	1.00	54.03	A16S
ATOM	22794	C4	G	A1082	176.713	132.717	-10.943	1.00	54.03	A16S
ATOM	22795	N3	G	A1082	176.096	133.378	-11.942	1.00	54.03	A16S
ATOM	22796	C2	G	A1082	175.390	134.398	-11.491	1.00	54.03	A16S
ATOM	22797	N2	G	A1082	174.688	135.154	-12.345	1.00	54.03	A16S
ATOM	22798	N1	G	A1082	175.315	134.752	-10.168	1.00	54.03	A16S
ATOM	22799	C6	G	A1082	175.958	134.094	-9.129	1.00	54.03	A16S
ATOM	22800	O6	G	A1082	175.856	134.518	-7.976	1.00	54.03	A16S
ATOM	22801	C5	G	A1082	176.691	132.982	-9.592	1.00	54.03	A16S
ATOM	22802	N7	G	A1082	177.447	132.054	-8.894	1.00	54.03	A16S
ATOM	22803	C8	G	A1082	177.923	131.267	-9.817	1.00	54.03	A16S
ATOM	22804	C2*	G	A1082	178.882	131.937	-13.112	1.00	36.41	A16S
ATOM	22805	O2*	G	A1082	178.630	131.794	-14.495	1.00	36.41	A16S
ATOM	22806	C3*	G	A1082	180.238	131.394	-12.667	1.00	36.41	A16S
ATOM	22807	O3*	G	A1082	181.305	131.700	-13.557	1.00	36.41	A16S
ATOM	22808	P	U	A1083	182.346	132.875	-13.185	1.00	56.03	A16S
ATOM	22809	O1P	U	A1083	183.356	132.971	-14.290	1.00	60.40	A16S
ATOM	22810	O2P	U	A1083	182.817	132.696	-11.773	1.00	60.40	A16S
ATOM	22811	O5*	U	A1083	181.434	134.174	-13.278	1.00	56.03	A16S
ATOM	22812	C5*	U	A1083	180.668	134.448	-14.466	1.00	56.03	A16S
ATOM	22813	C4*	U	A1083	179.801	135.667	-14.258	1.00	56.03	A16S
ATOM	22814	O4*	U	A1083	178.782	135.382	-13.271	1.00	56.03	A16S
ATOM	22815	C1*	U	A1083	178.515	136.545	-12.514	1.00	56.03	A16S
ATOM	22816	N1	U	A1083	178.713	136.239	-11.094	1.00	60.40	A16S
ATOM	22817	C6	U	A1083	179.639	135.324	-10.675	1.00	60.40	A16S
ATOM	22818	C2	U	A1083	177.924	136.905	-10.196	1.00	60.40	A16S
ATOM	22819	O2	U	A1083	177.096	137.733	-10.540	1.00	60.40	A16S
ATOM	22820	N3	U	A1083	178.136	136.575	-8.881	1.00	60.40	A16S
ATOM	22821	C4	U	A1083	179.049	135.667	-8.393	1.00	60.40	A16S
ATOM	22822	O4	U	A1083	179.148	135.494	-7.175	1.00	60.40	A16S
ATOM	22823	C5	U	A1083	179.828	135.022	-9.392	1.00	60.40	A16S
ATOM	22824	C2*	U	A1083	179.401	137.674	-13.036	1.00	56.03	A16S
ATOM	22825	O2*	U	A1083	178.629	138.451	-13.928	1.00	56.03	A16S
ATOM	22826	C3*	U	A1083	180.518	136.902	-13.737	1.00	56.03	A16S
ATOM	22827	O3*	U	A1083	181.061	137.638	-14.830	1.00	56.03	A16S
ATOM	22828	P	G	A1084	182.614	138.065	-14.826	1.00	54.02	A16S
ATOM	22829	O1P	G	A1084	182.701	138.972	-16.017	1.00	52.75	A16S
ATOM	22830	O2P	G	A1084	183.511	136.870	-14.714	1.00	52.75	A16S
ATOM	22831	O5*	G	A1084	182.800	138.920	-13.497	1.00	54.02	A16S
ATOM	22832	C5*	G	A1084	182.258	140.241	-13.418	1.00	54.02	A16S
ATOM	22833	C4*	G	A1084	182.377	140.765	-12.018	1.00	54.02	A16S
ATOM	22834	O4*	G	A1084	181.632	139.908	-11.127	1.00	54.02	A16S
ATOM	22835	C1*	G	A1084	182.231	139.924	-9.851	1.00	54.02	A16S
ATOM	22836	N9	G	A1084	182.449	138.547	-9.433	1.00	52.75	A16S
ATOM	22837	C4	G	A1084	182.215	138.036	-8.180	1.00	52.75	A16S
ATOM	22838	N3	G	A1084	181.747	138.725	-7.125	1.00	52.75	A16S
ATOM	22839	C2	G	A1084	181.631	137.967	-6.050	1.00	52.75	A16S
ATOM	22840	N2	G	A1084	181.133	138.503	-4.898	1.00	52.75	A16S
ATOM	22841	N1	G	A1084	181.942	136.631	-6.016	1.00	52.75	A16S
ATOM	22842	C6	G	A1084	182.422	135.895	-7.086	1.00	52.75	A16S
ATOM	22843	O6	G	A1084	182.669	134.682	-6.938	1.00	52.75	A16S
ATOM	22844	C5	G	A1084	182.560	136.709	-8.255	1.00	52.75	A16S
ATOM	22845	N7	G	A1084	183.007	136.392	-9.532	1.00	52.75	A16S
ATOM	22846	C8	G	A1084	182.921	137.512	-10.196	1.00	52.75	A16S
ATOM	22847	C2*	G	A1084	183.506	140.769	-9.923	1.00	54.02	A16S
ATOM	22848	O2*	G	A1084	183.251	142.030	-9.330	1.00	54.02	A16S
ATOM	22849	C3*	G	A1084	183.776	140.805	-11.428	1.00	54.02	A16S
ATOM	22850	O3*	G	A1084	184.434	141.988	-11.869	1.00	54.02	A16S
ATOM	22851	P	U	A1085	185.955	142.288	-11.433	1.00	56.88	A16S
ATOM	22852	O1P	U	A1085	186.434	143.290	-12.440	1.00	66.26	A16S
ATOM	22853	O2P	U	A1085	186.020	142.602	-9.975	1.00	66.26	A16S
ATOM	22854	O5*	U	A1085	186.749	140.924	-11.630	1.00	56.88	A16S
ATOM	22855	C5*	U	A1085	188.192	140.910	-11.641	1.00	56.88	A16S
ATOM	22856	C4*	U	A1085	188.690	139.512	-11.884	1.00	56.88	A16S
ATOM	22857	O4*	U	A1085	188.564	138.731	-10.671	1.00	56.88	A16S
ATOM	22858	C1*	U	A1085	187.753	137.584	-10.893	1.00	56.88	A16S
ATOM	22859	N1	U	A1085	186.938	137.398	-9.682	1.00	66.26	A16S
ATOM	22860	C6	U	A1085	186.505	138.490	-8.953	1.00	66.26	A16S
ATOM	22861	C2	U	A1085	186.649	136.104	-9.266	1.00	66.26	A16S
ATOM	22862	O2	U	A1085	186.952	135.106	-9.906	1.00	66.26	A16S

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ATOM	22863	N3	U	A1085	185.983	136.025	-8.069	1.00	66.26	A16S
ATOM	22864	C4	U	A1085	185.568	137.078	-7.274	1.00	66.26	A16S
ATOM	22865	O4	U	A1085	185.083	136.843	-6.168	1.00	66.26	A16S
ATOM	22866	C5	U	A1085	185.852	138.375	-7.801	1.00	66.26	A16S
ATOM	22867	C2*	U	A1085	186.966	137.808	-12.187	1.00	56.88	A16S
ATOM	22868	O2*	U	A1085	186.710	136.574	-12.825	1.00	56.88	A16S
ATOM	22869	C3*	U	A1085	187.901	138.760	-12.933	1.00	56.88	A16S
ATOM	22870	O3*	U	A1085	188.273	138.791	-14.311	1.00	56.88	A16S
ATOM	22871	P	U	A1086	189.575	137.999	-14.822	1.00	73.28	A16S
ATOM	22872	O1P	U	A1086	189.893	136.903	-13.867	1.00	92.56	A16S
ATOM	22873	O2P	U	A1086	190.612	139.019	-15.135	1.00	92.56	A16S
ATOM	22874	O5*	U	A1086	189.075	137.349	-16.189	1.00	73.28	A16S
ATOM	22875	C5*	U	A1086	188.452	136.039	-16.227	1.00	73.28	A16S
ATOM	22876	C4*	U	A1086	187.343	136.019	-17.252	1.00	73.28	A16S
ATOM	22877	O4*	U	A1086	186.143	136.590	-16.677	1.00	73.28	A16S
ATOM	22878	C1*	U	A1086	185.494	137.421	-17.638	1.00	73.28	A16S
ATOM	22879	N1	U	A1086	185.491	138.807	-17.121	1.00	92.56	A16S
ATOM	22880	C6	U	A1086	186.008	139.088	-15.865	1.00	92.56	A16S
ATOM	22881	C2	U	A1086	184.956	139.835	-17.915	1.00	92.56	A16S
ATOM	22882	O2	U	A1086	184.498	139.651	-19.043	1.00	92.56	A16S
ATOM	22883	N3	U	A1086	184.989	141.090	-17.330	1.00	92.56	A16S
ATOM	22884	C4	U	A1086	185.493	141.426	-16.069	1.00	92.56	A16S
ATOM	22885	O4	U	A1086	185.432	142.597	-15.663	1.00	92.56	A16S
ATOM	22886	C5	U	A1086	186.027	140.322	-15.335	1.00	92.56	A16S
ATOM	22887	C2*	U	A1086	186.238	137.257	-18.969	1.00	73.28	A16S
ATOM	22888	O2*	U	A1086	185.616	136.272	-19.773	1.00	73.28	A16S
ATOM	22889	C3*	U	A1086	187.627	136.855	-18.492	1.00	73.28	A16S
ATOM	22890	O3*	U	A1086	188.394	136.169	-19.476	1.00	73.28	A16S
ATOM	22891	P	G	A1087	189.683	136.892	-20.115	1.00	72.18	A16S
ATOM	22892	O1P	G	A1087	190.458	135.856	-20.842	1.00	63.80	A16S
ATOM	22893	O2P	G	A1087	190.355	137.696	-19.056	1.00	63.80	A16S
ATOM	22894	O5*	G	A1087	189.061	137.884	-21.192	1.00	72.18	A16S
ATOM	22895	C5*	G	A1087	188.234	137.379	-22.246	1.00	72.18	A16S
ATOM	22896	C4*	G	A1087	187.589	138.519	-22.987	1.00	72.18	A16S
ATOM	22897	O4*	G	A1087	186.676	139.209	-22.097	1.00	72.18	A16S
ATOM	22898	C1*	G	A1087	186.707	140.598	-22.370	1.00	72.18	A16S
ATOM	22899	N9	G	A1087	187.153	141.295	-21.169	1.00	63.80	A16S
ATOM	22900	C4	G	A1087	187.307	142.647	-21.044	1.00	63.80	A16S
ATOM	22901	N3	G	A1087	187.097	143.556	-22.020	1.00	63.80	A16S
ATOM	22902	C2	G	A1087	187.346	144.787	-21.605	1.00	63.80	A16S
ATOM	22903	N2	G	A1087	187.239	145.815	-22.470	1.00	63.80	A16S
ATOM	22904	N1	G	A1087	187.732	145.097	-20.315	1.00	63.80	A16S
ATOM	22905	C6	G	A1087	187.936	144.169	-19.293	1.00	63.80	A16S
ATOM	22906	O6	G	A1087	188.259	144.550	-18.164	1.00	63.80	A16S
ATOM	22907	C5	G	A1087	187.713	142.852	-19.739	1.00	63.80	A16S
ATOM	22908	N7	G	A1087	187.832	141.647	-19.064	1.00	63.80	A16S
ATOM	22909	C8	G	A1087	187.489	140.750	-19.950	1.00	63.80	A16S
ATOM	22910	C2*	G	A1087	187.650	140.830	-23.549	1.00	72.18	A16S
ATOM	22911	O2*	G	A1087	186.901	140.907	-24.746	1.00	72.18	A16S
ATOM	22912	C3*	G	A1087	188.544	139.600	-23.467	1.00	72.18	A16S
ATOM	22913	O3*	G	A1087	189.138	139.270	-24.711	1.00	72.18	A16S
ATOM	22914	P	G	A1088	190.655	139.710	-25.003	1.00	77.55	A16S
ATOM	22915	O1P	G	A1088	191.018	139.029	-26.275	1.00	64.68	A16S
ATOM	22916	O2P	G	A1088	191.483	139.487	-23.784	1.00	64.68	A16S
ATOM	22917	O5*	G	A1088	190.571	141.282	-25.251	1.00	77.55	A16S
ATOM	22918	C5*	G	A1088	190.212	141.805	-26.537	1.00	77.55	A16S
ATOM	22919	C4*	G	A1088	190.484	143.287	-26.592	1.00	77.55	A16S
ATOM	22920	O4*	G	A1088	189.536	143.982	-25.743	1.00	77.55	A16S
ATOM	22921	C1*	G	A1088	190.194	145.030	-25.045	1.00	77.55	A16S
ATOM	22922	N9	G	A1088	190.346	144.617	-23.651	1.00	64.68	A16S
ATOM	22923	C4	G	A1088	190.704	145.421	-22.601	1.00	64.68	A16S
ATOM	22924	N3	G	A1088	190.961	146.738	-22.671	1.00	64.68	A16S
ATOM	22925	C2	G	A1088	191.300	147.230	-21.500	1.00	64.68	A16S
ATOM	22926	N2	G	A1088	191.596	148.521	-21.399	1.00	64.68	A16S
ATOM	22927	N1	G	A1088	191.373	146.488	-20.346	1.00	64.68	A16S
ATOM	22928	C6	G	A1088	191.103	145.124	-20.258	1.00	64.68	A16S
ATOM	22929	O6	G	A1088	191.184	144.538	-19.172	1.00	64.68	A16S
ATOM	22930	C5	G	A1088	190.752	144.589	-21.502	1.00	64.68	A16S
ATOM	22931	N7	G	A1088	190.426	143.289	-21.851	1.00	64.68	A16S
ATOM	22932	C8	G	A1088	190.189	143.351	-23.132	1.00	64.68	A16S
ATOM	22933	C2*	G	A1088	191.580	145.167	-25.664	1.00	77.55	A16S
ATOM	22934	O2*	G	A1088	191.528	146.065	-26.753	1.00	77.55	A16S
ATOM	22935	C3*	G	A1088	191.848	143.731	-26.083	1.00	77.55	A16S
ATOM	22936	O3*	G	A1088	192.896	143.610	-27.031	1.00	77.55	A16S
ATOM	22937	P	G	A1089	194.388	143.292	-26.514	1.00	76.22	A16S
ATOM	22938	O1P	G	A1089	195.172	142.994	-27.733	1.00	59.59	A16S
ATOM	22939	O2P	G	A1089	194.321	142.273	-25.426	1.00	59.59	A16S

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ATOM	22940	O5* G	A1089	194.882	144.676	-25.882	1.00	76.22	A16S
ATOM	22941	C5* G	A1089	194.948	145.870	-26.695	1.00	76.22	A16S
ATOM	22942	C4* G	A1089	195.350	147.080	-25.873	1.00	76.22	A16S
ATOM	22943	O4* G	A1089	194.291	147.431	-24.941	1.00	76.22	A16S
ATOM	22944	C1* G	A1089	194.856	147.971	-23.753	1.00	76.22	A16S
ATOM	22945	N9 G	A1089	194.600	147.055	-22.642	1.00	59.59	A16S
ATOM	22946	C4 G	A1089	194.799	147.334	-21.311	1.00	59.59	A16S
ATOM	22947	N3 G	A1089	195.211	148.514	-20.806	1.00	59.59	A16S
ATOM	22948	C2 G	A1089	195.330	148.475	-19.490	1.00	59.59	A16S
ATOM	22949	N2 G	A1089	195.708	149.572	-18.826	1.00	59.59	A16S
ATOM	22950	N1 G	A1089	195.082	147.362	-18.729	1.00	59.59	A16S
ATOM	22951	C6 G	A1089	194.661	146.135	-19.226	1.00	59.59	A16S
ATOM	22952	O6 G	A1089	194.471	145.195	-18.452	1.00	59.59	A16S
ATOM	22953	C5 G	A1089	194.513	146.164	-20.642	1.00	59.59	A16S
ATOM	22954	N7 G	A1089	194.115	145.171	-21.532	1.00	59.59	A16S
ATOM	22955	C8 G	A1089	194.172	145.745	-22.704	1.00	59.59	A16S
ATOM	22956	C2* G	A1089	196.365	148.045	-23.961	1.00	76.22	A16S
ATOM	22957	O2* G	A1089	196.741	149.324	-24.425	1.00	76.22	A16S
ATOM	22958	C3* G	A1089	196.580	146.945	-24.991	1.00	76.22	A16S
ATOM	22959	O3* G	A1089	197.814	147.101	-25.660	1.00	76.22	A16S
ATOM	22960	P U	A1090	199.120	146.379	-25.061	1.00	61.67	A16S
ATOM	22961	O1P U	A1090	200.258	146.871	-25.878	1.00	62.43	A16S
ATOM	22962	O2P U	A1090	198.872	144.909	-24.929	1.00	62.43	A16S
ATOM	22963	O5* U	A1090	199.273	146.969	-23.588	1.00	61.67	A16S
ATOM	22964	C5* U	A1090	199.757	148.303	-23.372	1.00	61.67	A16S
ATOM	22965	C4* U	A1090	199.931	148.562	-21.895	1.00	61.67	A16S
ATOM	22966	O4* U	A1090	198.661	148.325	-21.229	1.00	61.67	A16S
ATOM	22967	C1* U	A1090	198.890	147.846	-19.910	1.00	61.67	A16S
ATOM	22968	N1 U	A1090	198.272	146.520	-19.756	1.00	62.43	A16S
ATOM	22969	C6 U	A1090	197.855	145.785	-20.836	1.00	62.43	A16S
ATOM	22970	C2 U	A1090	198.154	146.021	-18.471	1.00	62.43	A16S
ATOM	22971	O2 U	A1090	198.481	146.652	-17.483	1.00	62.43	A16S
ATOM	22972	N3 U	A1090	197.643	144.755	-18.386	1.00	62.43	A16S
ATOM	22973	C4 U	A1090	197.232	143.955	-19.430	1.00	62.43	A16S
ATOM	22974	O4 U	A1090	196.822	142.810	-19.196	1.00	62.43	A16S
ATOM	22975	C5 U	A1090	197.357	144.555	-20.721	1.00	62.43	A16S
ATOM	22976	C2* U	A1090	200.402	147.755	-19.708	1.00	61.67	A16S
ATOM	22977	O2* U	A1090	200.878	148.886	-19.006	1.00	61.67	A16S
ATOM	22978	C3* U	A1090	200.900	147.661	-21.144	1.00	61.67	A16S
ATOM	22979	O3* U	A1090	202.259	148.043	-21.243	1.00	61.67	A16S
ATOM	22980	P U	A1091	203.404	146.947	-20.962	1.00	61.44	A16S
ATOM	22981	O1P U	A1091	204.702	147.569	-21.345	1.00	72.09	A16S
ATOM	22982	O2P U	A1091	202.988	145.658	-21.580	1.00	72.09	A16S
ATOM	22983	O5* U	A1091	203.396	146.743	-19.382	1.00	61.44	A16S
ATOM	22984	C5* U	A1091	203.648	147.849	-18.517	1.00	61.44	A16S
ATOM	22985	C4* U	A1091	203.400	147.473	-17.082	1.00	61.44	A16S
ATOM	22986	O4* U	A1091	202.022	147.051	-16.912	1.00	61.44	A16S
ATOM	22987	C1* U	A1091	201.938	146.172	-15.798	1.00	61.44	A16S
ATOM	22988	N1 U	A1091	201.243	144.926	-16.174	1.00	72.09	A16S
ATOM	22989	C6 U	A1091	200.938	144.608	-17.477	1.00	72.09	A16S
ATOM	22990	C2 U	A1091	200.916	144.058	-15.144	1.00	72.09	A16S
ATOM	22991	O2 U	A1091	201.113	144.314	-13.980	1.00	72.09	A16S
ATOM	22992	N3 U	A1091	200.335	142.883	-15.527	1.00	72.09	A16S
ATOM	22993	C4 U	A1091	200.015	142.497	-16.799	1.00	72.09	A16S
ATOM	22994	O4 U	A1091	199.464	141.404	-16.972	1.00	72.09	A16S
ATOM	22995	C5 U	A1091	200.346	143.455	-17.816	1.00	72.09	A16S
ATOM	22996	C2* U	A1091	203.363	145.921	-15.294	1.00	61.44	A16S
ATOM	22997	O2* U	A1091	203.613	146.718	-14.146	1.00	61.44	A16S
ATOM	22998	C3* U	A1091	204.201	146.317	-16.508	1.00	61.44	A16S
ATOM	22999	O3* U	A1091	205.525	146.686	-16.126	1.00	61.44	A16S
ATOM	23000	P A	A1092	206.746	145.667	-16.398	1.00	53.62	A16S
ATOM	23001	O1P A	A1092	206.625	145.254	-17.827	1.00	70.99	A16S
ATOM	23002	O2P A	A1092	208.021	146.259	-15.893	1.00	70.99	A16S
ATOM	23003	O5* A	A1092	206.422	144.405	-15.494	1.00	53.62	A16S
ATOM	23004	C5* A	A1092	207.179	143.209	-15.636	1.00	53.62	A16S
ATOM	23005	C4* A	A1092	207.091	142.400	-14.372	1.00	53.62	A16S
ATOM	23006	O4* A	A1092	207.775	143.111	-13.311	1.00	53.62	A16S
ATOM	23007	C1* A	A1092	207.017	143.037	-12.118	1.00	53.62	A16S
ATOM	23008	N9 A	A1092	206.611	144.408	-11.803	1.00	70.99	A16S
ATOM	23009	C4 A	A1092	206.285	144.931	-10.577	1.00	70.99	A16S
ATOM	23010	N3 A	A1092	206.201	144.280	-9.408	1.00	70.99	A16S
ATOM	23011	C2 A	A1092	205.899	145.121	-8.432	1.00	70.99	A16S
ATOM	23012	N1 A	A1092	205.700	146.438	-8.486	1.00	70.99	A16S
ATOM	23013	C6 A	A1092	205.799	147.058	-9.680	1.00	70.99	A16S
ATOM	23014	N6 A	A1092	205.625	148.379	-9.742	1.00	70.99	A16S
ATOM	23015	C5 A	A1092	206.089	146.282	-10.788	1.00	70.99	A16S
ATOM	23016	N7 A	A1092	206.232	146.603	-12.129	1.00	70.99	A16S

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ATOM	23017	C8	A	A1092	206.531	145.460	-12.691	1.00	70.99	A16S
ATOM	23018	C2*	A	A1092	205.865	142.056	-12.362	1.00	53.62	A16S
ATOM	23019	O2*	A	A1092	206.278	140.762	-11.974	1.00	53.62	A16S
ATOM	23020	C3*	A	A1092	205.673	142.188	-13.868	1.00	53.62	A16S
ATOM	23021	O3*	A	A1092	205.058	141.069	-14.502	1.00	53.62	A16S
ATOM	23022	P	A	A1093	203.584	141.233	-15.120	1.00	63.12	A16S
ATOM	23023	O1P	A	A1093	203.233	140.006	-15.867	1.00	60.32	A16S
ATOM	23024	O2P	A	A1093	203.473	142.547	-15.801	1.00	60.32	A16S
ATOM	23025	O5*	A	A1093	202.692	141.245	-13.807	1.00	63.12	A16S
ATOM	23026	C5*	A	A1093	202.743	140.122	-12.899	1.00	63.12	A16S
ATOM	23027	C4*	A	A1093	201.946	140.416	-11.655	1.00	63.12	A16S
ATOM	23028	O4*	A	A1093	202.673	141.352	-10.823	1.00	63.12	A16S
ATOM	23029	C1*	A	A1093	201.767	142.222	-10.181	1.00	63.12	A16S
ATOM	23030	N9	A	A1093	202.126	143.600	-10.542	1.00	60.32	A16S
ATOM	23031	C4	A	A1093	202.197	144.694	-9.705	1.00	60.32	A16S
ATOM	23032	N3	A	A1093	201.994	144.727	-8.377	1.00	60.32	A16S
ATOM	23033	C2	A	A1093	202.115	145.971	-7.913	1.00	60.32	A16S
ATOM	23034	N1	A	A1093	202.386	147.102	-8.574	1.00	60.32	A16S
ATOM	23035	C6	A	A1093	202.578	147.037	-9.906	1.00	60.32	A16S
ATOM	23036	N6	A	A1093	202.818	148.168	-10.570	1.00	60.32	A16S
ATOM	23037	C5	A	A1093	202.500	145.773	-10.518	1.00	60.32	A16S
ATOM	23038	N7	A	A1093	202.662	145.365	-11.833	1.00	60.32	A16S
ATOM	23039	C8	A	A1093	202.440	144.072	-11.791	1.00	60.32	A16S
ATOM	23040	C2*	A	A1093	200.345	141.779	-10.566	1.00	63.12	A16S
ATOM	23041	O2*	A	A1093	199.882	140.904	-9.556	1.00	63.12	A16S
ATOM	23042	C3*	A	A1093	200.579	141.038	-11.884	1.00	63.12	A16S
ATOM	23043	O3*	A	A1093	199.624	139.995	-12.145	1.00	63.12	A16S
ATOM	23044	P	G	A1094	198.419	140.224	-13.201	1.00	56.86	A16S
ATOM	23045	O1P	G	A1094	198.522	141.602	-13.728	1.00	57.71	A16S
ATOM	23046	O2P	G	A1094	198.394	139.088	-14.162	1.00	57.71	A16S
ATOM	23047	O5*	G	A1094	197.115	140.096	-12.272	1.00	56.86	A16S
ATOM	23048	C5*	G	A1094	195.849	140.741	-12.624	1.00	56.86	A16S
ATOM	23049	C4*	G	A1094	195.153	141.325	-11.391	1.00	56.86	A16S
ATOM	23050	O4*	G	A1094	193.883	140.661	-11.121	1.00	56.86	A16S
ATOM	23051	C1*	G	A1094	193.739	140.515	-9.725	1.00	56.86	A16S
ATOM	23052	N9	G	A1094	192.869	139.384	-9.419	1.00	57.71	A16S
ATOM	23053	C4	G	A1094	191.572	139.421	-8.933	1.00	57.71	A16S
ATOM	23054	N3	G	A1094	190.830	140.526	-8.708	1.00	57.71	A16S
ATOM	23055	C2	G	A1094	189.641	140.225	-8.192	1.00	57.71	A16S
ATOM	23056	N2	G	A1094	188.758	141.199	-7.909	1.00	57.71	A16S
ATOM	23057	N1	G	A1094	189.225	138.943	-7.916	1.00	57.71	A16S
ATOM	23058	C6	G	A1094	189.969	137.796	-8.152	1.00	57.71	A16S
ATOM	23059	O6	G	A1094	189.499	136.684	-7.876	1.00	57.71	A16S
ATOM	23060	C5	G	A1094	191.232	138.103	-8.706	1.00	57.71	A16S
ATOM	23061	N7	G	A1094	192.264	137.261	-9.078	1.00	57.71	A16S
ATOM	23062	C8	G	A1094	193.204	138.061	-9.503	1.00	57.71	A16S
ATOM	23063	C2*	G	A1094	195.168	140.345	-9.212	1.00	56.86	A16S
ATOM	23064	O2*	G	A1094	195.222	140.589	-7.822	1.00	56.86	A16S
ATOM	23065	C3*	G	A1094	195.908	141.378	-10.057	1.00	56.86	A16S
ATOM	23066	O3*	G	A1094	195.719	142.658	-9.447	1.00	56.86	A16S
ATOM	23067	P	U	A1095	196.774	143.208	-8.356	1.00	60.58	A16S
ATOM	23068	O1P	U	A1095	197.706	142.111	-8.003	1.00	60.68	A16S
ATOM	23069	O2P	U	A1095	195.994	143.871	-7.273	1.00	60.68	A16S
ATOM	23070	O5*	U	A1095	197.583	144.327	-9.165	1.00	60.58	A16S
ATOM	23071	C5*	U	A1095	198.586	145.134	-8.513	1.00	60.58	A16S
ATOM	23072	C4*	U	A1095	198.870	146.392	-9.306	1.00	60.58	A16S
ATOM	23073	O4*	U	A1095	199.619	146.083	-10.505	1.00	60.58	A16S
ATOM	23074	C1*	U	A1095	199.233	146.961	-11.550	1.00	60.58	A16S
ATOM	23075	N1	U	A1095	198.663	146.163	-12.647	1.00	60.68	A16S
ATOM	23076	C6	U	A1095	198.106	144.928	-12.414	1.00	60.68	A16S
ATOM	23077	C2	U	A1095	198.700	146.694	-13.919	1.00	60.68	A16S
ATOM	23078	O2	U	A1095	199.158	147.797	-14.166	1.00	60.68	A16S
ATOM	23079	N3	U	A1095	198.166	145.893	-14.896	1.00	60.68	A16S
ATOM	23080	C4	U	A1095	197.596	144.647	-14.731	1.00	60.68	A16S
ATOM	23081	O4	U	A1095	197.158	144.040	-15.715	1.00	60.68	A16S
ATOM	23082	C5	U	A1095	197.581	144.178	-13.383	1.00	60.68	A16S
ATOM	23083	C2*	U	A1095	198.210	147.943	-10.982	1.00	60.58	A16S
ATOM	23084	O2*	U	A1095	198.871	149.130	-10.602	1.00	60.58	A16S
ATOM	23085	C3*	U	A1095	197.657	147.164	-9.796	1.00	60.58	A16S
ATOM	23086	O3*	U	A1095	197.151	148.029	-8.791	1.00	60.58	A16S
ATOM	23087	P	C	A1096	195.582	148.381	-8.759	1.00	61.83	A16S
ATOM	23088	O1P	C	A1096	195.433	149.243	-7.556	1.00	60.40	A16S
ATOM	23089	O2P	C	A1096	194.802	147.102	-8.847	1.00	60.40	A16S
ATOM	23090	O5*	C	A1096	195.361	149.276	-10.064	1.00	61.83	A16S
ATOM	23091	C5*	C	A1096	195.860	150.616	-10.091	1.00	61.83	A16S
ATOM	23092	C4*	C	A1096	195.953	151.128	-11.499	1.00	61.83	A16S
ATOM	23093	O4*	C	A1096	196.769	150.221	-12.281	1.00	61.83	A16S

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ATOM	23094	C1*	C	A1096	196.384	150.292	-13.645	1.00	61.83	A16S
ATOM	23095	N1	C	A1096	195.965	148.964	-14.116	1.00	60.40	A16S
ATOM	23096	C6	C	A1096	195.761	147.930	-13.248	1.00	60.40	A16S
ATOM	23097	C2	C	A1096	195.740	148.789	-15.489	1.00	60.40	A16S
ATOM	23098	O2	C	A1096	195.971	149.728	-16.255	1.00	60.40	A16S
ATOM	23099	N3	C	A1096	195.279	147.611	-15.941	1.00	60.40	A16S
ATOM	23100	C4	C	A1096	195.051	146.617	-15.084	1.00	60.40	A16S
ATOM	23101	N4	C	A1096	194.567	145.475	-15.570	1.00	60.40	A16S
ATOM	23102	C5	C	A1096	195.305	146.750	-13.684	1.00	60.40	A16S
ATOM	23103	C2*	C	A1096	195.206	151.262	-13.745	1.00	61.83	A16S
ATOM	23104	O2*	C	A1096	195.678	152.515	-14.203	1.00	61.83	A16S
ATOM	23105	C3*	C	A1096	194.673	151.261	-12.312	1.00	61.83	A16S
ATOM	23106	O3*	C	A1096	193.938	152.455	-12.030	1.00	61.83	A16S
ATOM	23107	P	C	A1097	192.403	152.586	-12.522	1.00	71.23	A16S
ATOM	23108	O1P	C	A1097	191.911	153.914	-12.078	1.00	60.38	A16S
ATOM	23109	O2P	C	A1097	191.646	151.362	-12.158	1.00	60.38	A16S
ATOM	23110	O5*	C	A1097	192.488	152.636	-14.108	1.00	71.23	A16S
ATOM	23111	C5*	C	A1097	192.970	153.808	-14.770	1.00	71.23	A16S
ATOM	23112	C4*	C	A1097	192.856	153.643	-16.260	1.00	71.23	A16S
ATOM	23113	O4*	C	A1097	193.641	152.497	-16.667	1.00	71.23	A16S
ATOM	23114	C1*	C	A1097	192.997	151.844	-17.745	1.00	71.23	A16S
ATOM	23115	N1	C	A1097	192.687	150.460	-17.347	1.00	60.38	A16S
ATOM	23116	C6	C	A1097	192.745	150.063	-16.040	1.00	60.38	A16S
ATOM	23117	C2	C	A1097	192.332	149.548	-18.345	1.00	60.38	A16S
ATOM	23118	O2	C	A1097	192.279	149.942	-19.517	1.00	60.38	A16S
ATOM	23119	N3	C	A1097	192.058	148.269	-18.009	1.00	60.38	A16S
ATOM	23120	C4	C	A1097	192.131	147.888	-16.734	1.00	60.38	A16S
ATOM	23121	N4	C	A1097	191.867	146.610	-16.449	1.00	60.38	A16S
ATOM	23122	C5	C	A1097	192.480	148.799	-15.693	1.00	60.38	A16S
ATOM	23123	C2*	C	A1097	191.738	152.637	-18.096	1.00	71.23	A16S
ATOM	23124	O2*	C	A1097	191.998	153.530	-19.163	1.00	71.23	A16S
ATOM	23125	C3*	C	A1097	191.458	153.360	-16.788	1.00	71.23	A16S
ATOM	23126	O3*	C	A1097	190.719	154.551	-17.016	1.00	71.23	A16S
ATOM	23127	P	C	A1098	189.121	154.539	-16.843	1.00	72.56	A16S
ATOM	23128	O1P	C	A1098	188.672	155.960	-16.974	1.00	61.14	A16S
ATOM	23129	O2P	C	A1098	188.830	153.775	-15.594	1.00	61.14	A16S
ATOM	23130	O5*	C	A1098	188.571	153.725	-18.104	1.00	72.56	A16S
ATOM	23131	C5*	C	A1098	188.531	154.338	-19.404	1.00	72.56	A16S
ATOM	23132	C4*	C	A1098	188.178	153.325	-20.470	1.00	72.56	A16S
ATOM	23133	O4*	C	A1098	189.162	152.263	-20.481	1.00	72.56	A16S
ATOM	23134	C1*	C	A1098	188.552	151.048	-20.889	1.00	72.56	A16S
ATOM	23135	N1	C	A1098	188.662	150.060	-19.804	1.00	61.14	A16S
ATOM	23136	C6	C	A1098	188.982	150.436	-18.527	1.00	61.14	A16S
ATOM	23137	C2	C	A1098	188.415	148.718	-20.104	1.00	61.14	A16S
ATOM	23138	O2	C	A1098	188.146	148.401	-21.277	1.00	61.14	A16S
ATOM	23139	N3	C	A1098	188.476	147.801	-19.116	1.00	61.14	A16S
ATOM	23140	C4	C	A1098	188.775	148.179	-17.871	1.00	61.14	A16S
ATOM	23141	N4	C	A1098	188.804	147.237	-16.922	1.00	61.14	A16S
ATOM	23142	C5	C	A1098	189.051	149.539	-17.540	1.00	61.14	A16S
ATOM	23143	C2*	C	A1098	187.087	151.344	-21.175	1.00	72.56	A16S
ATOM	23144	O2*	C	A1098	186.920	151.590	-22.553	1.00	72.56	A16S
ATOM	23145	C3*	C	A1098	186.864	152.582	-20.325	1.00	72.56	A16S
ATOM	23146	O3*	C	A1098	185.760	153.310	-20.796	1.00	72.56	A16S
ATOM	23147	P	G	A1099	184.345	153.134	-20.059	1.00	74.33	A16S
ATOM	23148	O1P	G	A1099	183.452	154.154	-20.694	1.00	63.78	A16S
ATOM	23149	O2P	G	A1099	184.590	153.166	-18.575	1.00	63.78	A16S
ATOM	23150	O5*	G	A1099	183.861	151.659	-20.439	1.00	74.33	A16S
ATOM	23151	C5*	G	A1099	183.680	151.279	-21.809	1.00	74.33	A16S
ATOM	23152	C4*	G	A1099	183.571	149.776	-21.942	1.00	74.33	A16S
ATOM	23153	O4*	G	A1099	184.755	149.135	-21.405	1.00	74.33	A16S
ATOM	23154	C1*	G	A1099	184.426	147.828	-20.975	1.00	74.33	A16S
ATOM	23155	N9	G	A1099	184.796	147.650	-19.578	1.00	63.78	A16S
ATOM	23156	C4	G	A1099	184.779	146.447	-18.930	1.00	63.78	A16S
ATOM	23157	N3	G	A1099	184.441	145.267	-19.488	1.00	63.78	A16S
ATOM	23158	C2	G	A1099	184.509	144.270	-18.623	1.00	63.78	A16S
ATOM	23159	N2	G	A1099	184.206	143.021	-19.022	1.00	63.78	A16S
ATOM	23160	N1	G	A1099	184.880	144.415	-17.305	1.00	63.78	A16S
ATOM	23161	C6	G	A1099	185.241	145.615	-16.698	1.00	63.78	A16S
ATOM	23162	O6	G	A1099	185.567	145.620	-15.491	1.00	63.78	A16S
ATOM	23163	C5	G	A1099	185.171	146.716	-17.634	1.00	63.78	A16S
ATOM	23164	N7	G	A1099	185.439	148.074	-17.475	1.00	63.78	A16S
ATOM	23165	C8	G	A1099	185.205	148.589	-18.655	1.00	63.78	A16S
ATOM	23166	C2*	G	A1099	182.927	147.639	-21.142	1.00	74.33	A16S
ATOM	23167	O2*	G	A1099	182.699	146.904	-22.319	1.00	74.33	A16S
ATOM	23168	C3*	G	A1099	182.444	149.081	-21.202	1.00	74.33	A16S
ATOM	23169	O3*	G	A1099	181.199	149.196	-21.866	1.00	74.33	A16S
ATOM	23170	P	C	A1100	179.881	149.526	-21.005	1.00	63.81	A16S

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ATOM	23171	O1P	C	A1100	178.809	149.953	-21.957	1.00	52.73	A16S
ATOM	23172	O2P	C	A1100	180.305	150.447	-19.899	1.00	52.73	A16S
ATOM	23173	O5*	C	A1100	179.477	148.116	-20.378	1.00	63.81	A16S
ATOM	23174	C5*	C	A1100	179.215	146.981	-21.223	1.00	63.81	A16S
ATOM	23175	C4*	C	A1100	179.233	145.708	-20.409	1.00	63.81	A16S
ATOM	23176	O4*	C	A1100	180.546	145.521	-19.842	1.00	63.81	A16S
ATOM	23177	C1*	C	A1100	180.435	144.890	-18.585	1.00	63.81	A16S
ATOM	23178	N1	C	A1100	181.124	145.700	-17.581	1.00	52.73	A16S
ATOM	23179	C6	C	A1100	181.277	147.046	-17.734	1.00	52.73	A16S
ATOM	23180	C2	C	A1100	181.634	145.057	-16.457	1.00	52.73	A16S
ATOM	23181	O2	C	A1100	181.465	143.838	-16.337	1.00	52.73	A16S
ATOM	23182	N3	C	A1100	182.295	145.767	-15.525	1.00	52.73	A16S
ATOM	23183	C4	C	A1100	182.442	147.077	-15.677	1.00	52.73	A16S
ATOM	23184	N4	C	A1100	183.096	147.735	-14.721	1.00	52.73	A16S
ATOM	23185	C5	C	A1100	181.923	147.769	-16.815	1.00	52.73	A16S
ATOM	23186	C2*	C	A1100	178.961	144.661	-18.281	1.00	63.81	A16S
ATOM	23187	O2*	C	A1100	178.667	143.311	-18.569	1.00	63.81	A16S
ATOM	23188	C3*	C	A1100	178.298	145.670	-19.212	1.00	63.81	A16S
ATOM	23189	O3*	C	A1100	176.999	145.272	-19.612	1.00	63.81	A16S
ATOM	23190	P	A	A1101	175.718	145.964	-18.938	1.00	71.31	A16S
ATOM	23191	O1P	A	A1101	174.547	145.546	-19.777	1.00	42.83	A16S
ATOM	23192	O2P	A	A1101	176.014	147.421	-18.751	1.00	42.83	A16S
ATOM	23193	O5*	A	A1101	175.629	145.243	-17.516	1.00	71.31	A16S
ATOM	23194	C5*	A	A1101	175.583	143.809	-17.444	1.00	71.31	A16S
ATOM	23195	C4*	A	A1101	175.800	143.339	-16.032	1.00	71.31	A16S
ATOM	23196	O4*	A	A1101	174.746	143.833	-15.193	1.00	71.31	A16S
ATOM	23197	C1*	A	A1101	174.587	142.947	-14.105	1.00	71.31	A16S
ATOM	23198	N9	A	A1101	173.214	143.054	-13.594	1.00	42.83	A16S
ATOM	23199	C4	A	A1101	172.876	143.155	-12.262	1.00	42.83	A16S
ATOM	23200	N3	A	A1101	173.708	143.117	-11.203	1.00	42.83	A16S
ATOM	23201	C2	A	A1101	173.035	143.288	-10.067	1.00	42.83	A16S
ATOM	23202	N1	A	A1101	171.727	143.481	-9.882	1.00	42.83	A16S
ATOM	23203	C6	A	A1101	170.915	143.507	-10.961	1.00	42.83	A16S
ATOM	23204	N6	A	A1101	169.606	143.700	-10.767	1.00	42.83	A16S
ATOM	23205	C5	A	A1101	171.506	143.329	-12.232	1.00	42.83	A16S
ATOM	23206	N7	A	A1101	170.978	143.295	-13.519	1.00	42.83	A16S
ATOM	23207	C8	A	A1101	172.027	143.124	-14.288	1.00	42.83	A16S
ATOM	23208	C2*	A	A1101	175.062	141.555	-14.533	1.00	71.31	A16S
ATOM	23209	O2*	A	A1101	175.863	140.953	-13.537	1.00	71.31	A16S
ATOM	23210	C3*	A	A1101	175.747	141.826	-15.878	1.00	71.31	A16S
ATOM	23211	O3*	A	A1101	177.021	141.187	-16.136	1.00	71.31	A16S
ATOM	23212	P	A	A1102	178.376	141.636	-15.350	1.00	56.05	A16S
ATOM	23213	O1P	A	A1102	179.457	141.320	-16.315	1.00	48.28	A16S
ATOM	23214	O2P	A	A1102	178.474	141.109	-13.959	1.00	48.28	A16S
ATOM	23215	O5*	A	A1102	178.305	143.222	-15.264	1.00	56.05	A16S
ATOM	23216	C5*	A	A1102	179.114	143.941	-14.320	1.00	56.05	A16S
ATOM	23217	C4*	A	A1102	178.232	144.676	-13.341	1.00	56.05	A16S
ATOM	23218	O4*	A	A1102	177.386	143.718	-12.666	1.00	56.05	A16S
ATOM	23219	C1*	A	A1102	177.203	144.110	-11.326	1.00	56.05	A16S
ATOM	23220	N9	A	A1102	177.732	143.058	-10.476	1.00	48.28	A16S
ATOM	23221	C4	A	A1102	177.465	142.888	-9.142	1.00	48.28	A16S
ATOM	23222	N3	A	A1102	176.680	143.653	-8.364	1.00	48.28	A16S
ATOM	23223	C2	A	A1102	176.656	143.180	-7.119	1.00	48.28	A16S
ATOM	23224	N1	A	A1102	177.279	142.110	-6.604	1.00	48.28	A16S
ATOM	23225	C6	A	A1102	178.057	141.368	-7.414	1.00	48.28	A16S
ATOM	23226	N6	A	A1102	178.673	140.308	-6.900	1.00	48.28	A16S
ATOM	23227	C5	A	A1102	178.169	141.765	-8.757	1.00	48.28	A16S
ATOM	23228	N7	A	A1102	178.872	141.242	-9.830	1.00	48.28	A16S
ATOM	23229	C8	A	A1102	178.580	142.045	-10.822	1.00	48.28	A16S
ATOM	23230	C2*	A	A1102	177.910	145.446	-11.115	1.00	56.05	A16S
ATOM	23231	O2*	A	A1102	176.935	146.460	-11.263	1.00	56.05	A16S
ATOM	23232	C3*	A	A1102	178.951	145.429	-12.230	1.00	56.05	A16S
ATOM	23233	O3*	A	A1102	179.304	146.745	-12.680	1.00	56.05	A16S
ATOM	23234	P	C	A1103	180.431	147.597	-11.900	1.00	58.67	A16S
ATOM	23235	O1P	C	A1103	180.430	148.906	-12.612	1.00	52.51	A16S
ATOM	23236	O2P	C	A1103	181.703	146.837	-11.761	1.00	52.51	A16S
ATOM	23237	O5*	C	A1103	179.831	147.792	-10.437	1.00	58.67	A16S
ATOM	23238	C5*	C	A1103	178.888	148.840	-10.171	1.00	58.67	A16S
ATOM	23239	C4*	C	A1103	178.770	149.064	-8.691	1.00	58.67	A16S
ATOM	23240	O4*	C	A1103	178.133	147.919	-8.080	1.00	58.67	A16S
ATOM	23241	C1*	C	A1103	178.701	147.679	-6.807	1.00	58.67	A16S
ATOM	23242	N1	C	A1103	179.258	146.315	-6.800	1.00	52.51	A16S
ATOM	23243	C6	C	A1103	179.577	145.685	-7.970	1.00	52.51	A16S
ATOM	23244	C2	C	A1103	179.446	145.659	-5.567	1.00	52.51	A16S
ATOM	23245	O2	C	A1103	179.172	146.259	-4.516	1.00	52.51	A16S
ATOM	23246	N3	C	A1103	179.922	144.394	-5.558	1.00	52.51	A16S
ATOM	23247	C4	C	A1103	180.220	143.792	-6.704	1.00	52.51	A16S

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ATOM	23248	N4	C	A1103	180.686	142.554	-6.649	1.00	52.51	A16S
ATOM	23249	C5	C	A1103	180.053	144.436	-7.966	1.00	52.51	A16S
ATOM	23250	C2*	C	A1103	179.742	148.764	-6.540	1.00	58.67	A16S
ATOM	23251	O2*	C	A1103	179.145	149.775	-5.751	1.00	58.67	A16S
ATOM	23252	C3*	C	A1103	180.090	149.210	-7.957	1.00	58.67	A16S
ATOM	23253	O3*	C	A1103	180.586	150.540	-8.028	1.00	58.67	A16S
ATOM	23254	P	G	A1104	182.123	150.828	-7.658	1.00	58.90	A16S
ATOM	23255	O1P	G	A1104	182.374	152.294	-7.860	1.00	63.51	A16S
ATOM	23256	O2P	G	A1104	182.963	149.829	-8.382	1.00	63.51	A16S
ATOM	23257	O5*	G	A1104	182.177	150.507	-6.097	1.00	58.90	A16S
ATOM	23258	C5*	G	A1104	183.314	149.903	-5.492	1.00	58.90	A16S
ATOM	23259	C4*	G	A1104	182.916	149.324	-4.168	1.00	58.90	A16S
ATOM	23260	O4*	G	A1104	181.970	148.243	-4.373	1.00	58.90	A16S
ATOM	23261	C1*	G	A1104	182.195	147.218	-3.408	1.00	58.90	A16S
ATOM	23262	N9	G	A1104	182.531	145.971	-4.100	1.00	63.51	A16S
ATOM	23263	C4	G	A1104	182.696	144.737	-3.511	1.00	63.51	A16S
ATOM	23264	N3	G	A1104	182.543	144.456	-2.198	1.00	63.51	A16S
ATOM	23265	C2	G	A1104	182.789	143.184	-1.933	1.00	63.51	A16S
ATOM	23266	N2	G	A1104	182.689	142.730	-0.681	1.00	63.51	A16S
ATOM	23267	N1	G	A1104	183.154	142.263	-2.878	1.00	63.51	A16S
ATOM	23268	C6	G	A1104	183.320	142.531	-4.234	1.00	63.51	A16S
ATOM	23269	O6	G	A1104	183.667	141.628	-5.003	1.00	63.51	A16S
ATOM	23270	C5	G	A1104	183.056	143.888	-4.536	1.00	63.51	A16S
ATOM	23271	N7	G	A1104	183.096	144.563	-5.749	1.00	63.51	A16S
ATOM	23272	C8	G	A1104	182.773	145.792	-5.446	1.00	63.51	A16S
ATOM	23273	C2*	G	A1104	183.347	147.669	-2.505	1.00	58.90	A16S
ATOM	23274	O2*	G	A1104	182.873	148.189	-1.278	1.00	58.90	A16S
ATOM	23275	C3*	G	A1104	184.050	148.687	-3.397	1.00	58.90	A16S
ATOM	23276	O3*	G	A1104	184.768	149.650	-2.661	1.00	58.90	A16S
ATOM	23277	P	A	A1105	186.316	149.389	-2.329	1.00	58.93	A16S
ATOM	23278	O1P	A	A1105	186.806	150.620	-1.652	1.00	77.33	A16S
ATOM	23279	O2P	A	A1105	186.974	148.925	-3.592	1.00	77.33	A16S
ATOM	23280	O5*	A	A1105	186.293	148.218	-1.242	1.00	58.93	A16S
ATOM	23281	C5*	A	A1105	185.693	148.435	0.038	1.00	58.93	A16S
ATOM	23282	C4*	A	A1105	185.603	147.145	0.798	1.00	58.93	A16S
ATOM	23283	O4*	A	A1105	184.773	146.218	0.063	1.00	58.93	A16S
ATOM	23284	C1*	A	A1105	185.250	144.894	0.258	1.00	58.93	A16S
ATOM	23285	N9	A	A1105	185.628	144.338	-1.042	1.00	77.33	A16S
ATOM	23286	C4	A	A1105	186.041	143.047	-1.272	1.00	77.33	A16S
ATOM	23287	N3	A	A1105	186.136	142.051	-0.374	1.00	77.33	A16S
ATOM	23288	C2	A	A1105	186.599	140.949	-0.953	1.00	77.33	A16S
ATOM	23289	N1	A	A1105	186.958	140.745	-2.231	1.00	77.33	A16S
ATOM	23290	C6	A	A1105	186.850	141.767	-3.105	1.00	77.33	A16S
ATOM	23291	N6	A	A1105	187.217	141.568	-4.372	1.00	77.33	A16S
ATOM	23292	C5	A	A1105	186.359	142.987	-2.619	1.00	77.33	A16S
ATOM	23293	N7	A	A1105	186.119	144.208	-3.236	1.00	77.33	A16S
ATOM	23294	C8	A	A1105	185.683	144.972	-2.263	1.00	77.33	A16S
ATOM	23295	C2*	A	A1105	186.458	144.965	1.194	1.00	58.93	A16S
ATOM	23296	O2*	A	A1105	186.078	144.698	2.526	1.00	58.93	A16S
ATOM	23297	C3*	A	A1105	186.910	146.401	0.995	1.00	58.93	A16S
ATOM	23298	O3*	A	A1105	187.622	146.866	2.120	1.00	58.93	A16S
ATOM	23299	P	G	A1106	189.221	146.705	2.161	1.00	61.86	A16S
ATOM	23300	O1P	G	A1106	189.710	147.565	3.279	1.00	54.14	A16S
ATOM	23301	O2P	G	A1106	189.753	146.912	0.773	1.00	54.14	A16S
ATOM	23302	O5*	G	A1106	189.443	145.196	2.611	1.00	61.86	A16S
ATOM	23303	C5*	G	A1106	189.039	144.792	3.919	1.00	61.86	A16S
ATOM	23304	C4*	G	A1106	189.173	143.309	4.077	1.00	61.86	A16S
ATOM	23305	O4*	G	A1106	188.357	142.641	3.086	1.00	61.86	A16S
ATOM	23306	C1*	G	A1106	188.963	141.412	2.735	1.00	61.86	A16S
ATOM	23307	N9	G	A1106	189.247	141.412	1.304	1.00	54.14	A16S
ATOM	23308	C4	G	A1106	189.591	140.302	0.564	1.00	54.14	A16S
ATOM	23309	N3	G	A1106	189.717	139.042	1.041	1.00	54.14	A16S
ATOM	23310	C2	G	A1106	190.047	138.188	0.096	1.00	54.14	A16S
ATOM	23311	N2	G	A1106	190.205	136.900	0.406	1.00	54.14	A16S
ATOM	23312	N1	G	A1106	190.241	138.536	-1.223	1.00	54.14	A16S
ATOM	23313	C6	G	A1106	190.112	139.824	-1.743	1.00	54.14	A16S
ATOM	23314	O6	G	A1106	190.288	140.024	-2.954	1.00	54.14	A16S
ATOM	23315	C5	G	A1106	189.764	140.761	-0.729	1.00	54.14	A16S
ATOM	23316	N7	G	A1106	189.544	142.136	-0.799	1.00	54.14	A16S
ATOM	23317	C8	G	A1106	189.241	142.479	0.429	1.00	54.14	A16S
ATOM	23318	C2*	G	A1106	190.253	141.284	3.540	1.00	61.86	A16S
ATOM	23319	O2*	G	A1106	190.025	140.530	4.712	1.00	61.86	A16S
ATOM	23320	C3*	G	A1106	190.554	142.736	3.847	1.00	61.86	A16S
ATOM	23321	O3*	G	A1106	191.403	142.867	4.959	1.00	61.86	A16S
ATOM	23322	P	C	A1107	192.954	143.175	4.708	1.00	63.79	A16S
ATOM	23323	O1P	C	A1107	193.576	143.547	6.008	1.00	47.69	A16S
ATOM	23324	O2P	C	A1107	193.016	144.129	3.555	1.00	47.69	A16S

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ATOM	23325	O5*	C	A1107	193.549	141.758	4.278	1.00	63.79	A16S
ATOM	23326	C5*	C	A1107	193.538	140.659	5.213	1.00	63.79	A16S
ATOM	23327	C4*	C	A1107	193.974	139.362	4.553	1.00	63.79	A16S
ATOM	23328	O4*	C	A1107	193.004	138.916	3.569	1.00	63.79	A16S
ATOM	23329	C1*	C	A1107	193.663	138.210	2.536	1.00	63.79	A16S
ATOM	23330	N1	C	A1107	193.522	138.973	1.290	1.00	47.69	A16S
ATOM	23331	C6	C	A1107	193.115	140.275	1.306	1.00	47.69	A16S
ATOM	23332	C2	C	A1107	193.807	138.339	0.074	1.00	47.69	A16S
ATOM	23333	O2	C	A1107	194.204	137.154	0.088	1.00	47.69	A16S
ATOM	23334	N3	C	A1107	193.644	139.026	-1.083	1.00	47.69	A16S
ATOM	23335	C4	C	A1107	193.219	140.290	-1.051	1.00	47.69	A16S
ATOM	23336	N4	C	A1107	193.039	140.924	-2.213	1.00	47.69	A16S
ATOM	23337	C5	C	A1107	192.951	140.962	0.172	1.00	47.69	A16S
ATOM	23338	C2*	C	A1107	195.125	138.107	2.930	1.00	63.79	A16S
ATOM	23339	O2*	C	A1107	195.269	136.911	3.671	1.00	63.79	A16S
ATOM	23340	C3*	C	A1107	195.283	139.351	3.792	1.00	63.79	A16S
ATOM	23341	O3*	C	A1107	196.397	139.262	4.646	1.00	63.79	A16S
ATOM	23342	P	G	A1108	197.690	140.159	4.340	1.00	64.60	A16S
ATOM	23343	O1P	G	A1108	198.699	139.533	5.237	1.00	48.99	A16S
ATOM	23344	O2P	G	A1108	197.358	141.599	4.484	1.00	48.99	A16S
ATOM	23345	O5*	G	A1108	198.028	139.902	2.792	1.00	64.60	A16S
ATOM	23346	C5*	G	A1108	198.623	138.656	2.375	1.00	64.60	A16S
ATOM	23347	C4*	G	A1108	198.770	138.547	0.859	1.00	64.60	A16S
ATOM	23348	O4*	G	A1108	197.487	138.599	0.173	1.00	64.60	A16S
ATOM	23349	C1*	G	A1108	197.714	138.833	-1.215	1.00	64.60	A16S
ATOM	23350	N9	G	A1108	196.979	140.012	-1.669	1.00	48.99	A16S
ATOM	23351	C4	G	A1108	196.924	140.480	-2.970	1.00	48.99	A16S
ATOM	23352	N3	G	A1108	197.480	139.896	-4.049	1.00	48.99	A16S
ATOM	23353	C2	G	A1108	197.295	140.609	-5.156	1.00	48.99	A16S
ATOM	23354	N2	G	A1108	197.781	140.169	-6.318	1.00	48.99	A16S
ATOM	23355	N1	G	A1108	196.622	141.801	-5.209	1.00	48.99	A16S
ATOM	23356	C6	G	A1108	196.035	142.428	-4.116	1.00	48.99	A16S
ATOM	23357	O6	G	A1108	195.450	143.521	-4.270	1.00	48.99	A16S
ATOM	23358	C5	G	A1108	196.219	141.662	-2.905	1.00	48.99	A16S
ATOM	23359	N7	G	A1108	195.797	141.910	-1.603	1.00	48.99	A16S
ATOM	23360	C8	G	A1108	196.261	140.901	-0.910	1.00	48.99	A16S
ATOM	23361	C2*	G	A1108	199.211	139.084	-1.379	1.00	64.60	A16S
ATOM	23362	O2*	G	A1108	199.803	137.855	-1.768	1.00	64.60	A16S
ATOM	23363	C3*	G	A1108	199.628	139.497	0.033	1.00	64.60	A16S
ATOM	23364	O3*	G	A1108	201.037	139.311	0.161	1.00	64.60	A16S
ATOM	23365	P	C	A1109	202.046	140.510	-0.262	1.00	48.57	A16S
ATOM	23366	O1P	C	A1109	203.412	139.923	-0.407	1.00	80.43	A16S
ATOM	23367	O2P	C	A1109	201.840	141.653	0.660	1.00	80.43	A16S
ATOM	23368	O5*	C	A1109	201.547	141.007	-1.695	1.00	48.57	A16S
ATOM	23369	C5*	C	A1109	201.960	140.325	-2.889	1.00	48.57	A16S
ATOM	23370	C4*	C	A1109	201.925	141.254	-4.073	1.00	48.57	A16S
ATOM	23371	O4*	C	A1109	200.559	141.619	-4.390	1.00	48.57	A16S
ATOM	23372	C1*	C	A1109	200.523	142.948	-4.887	1.00	48.57	A16S
ATOM	23373	N1	C	A1109	199.658	143.760	-4.009	1.00	80.43	A16S
ATOM	23374	C6	C	A1109	199.363	143.351	-2.735	1.00	80.43	A16S
ATOM	23375	C2	C	A1109	199.135	144.966	-4.502	1.00	80.43	A16S
ATOM	23376	O2	C	A1109	199.445	145.339	-5.644	1.00	80.43	A16S
ATOM	23377	N3	C	A1109	198.317	145.699	-3.716	1.00	80.43	A16S
ATOM	23378	C4	C	A1109	198.033	145.287	-2.480	1.00	80.43	A16S
ATOM	23379	N4	C	A1109	197.223	146.045	-1.746	1.00	80.43	A16S
ATOM	23380	C5	C	A1109	198.566	144.079	-1.944	1.00	80.43	A16S
ATOM	23381	C2*	C	A1109	201.961	143.462	-4.942	1.00	48.57	A16S
ATOM	23382	O2*	C	A1109	202.475	143.273	-6.249	1.00	48.57	A16S
ATOM	23383	C3*	C	A1109	202.640	142.578	-3.897	1.00	48.57	A16S
ATOM	23384	O3*	C	A1109	204.043	142.457	-4.090	1.00	48.57	A16S
ATOM	23385	P	A	A1110	205.039	143.309	-3.165	1.00	56.04	A16S
ATOM	23386	O1P	A	A1110	206.410	143.052	-3.677	1.00	69.51	A16S
ATOM	23387	O2P	A	A1110	204.715	143.013	-1.739	1.00	69.51	A16S
ATOM	23388	O5*	A	A1110	204.649	144.823	-3.479	1.00	56.04	A16S
ATOM	23389	C5*	A	A1110	204.918	145.395	-4.773	1.00	56.04	A16S
ATOM	23390	C4*	A	A1110	204.267	146.755	-4.900	1.00	56.04	A16S
ATOM	23391	O4*	A	A1110	202.827	146.598	-4.810	1.00	56.04	A16S
ATOM	23392	C1*	A	A1110	202.271	147.664	-4.063	1.00	56.04	A16S
ATOM	23393	N9	A	A1110	201.838	147.101	-2.790	1.00	69.51	A16S
ATOM	23394	C4	A	A1110	200.942	147.636	-1.904	1.00	69.51	A16S
ATOM	23395	N3	A	A1110	200.285	148.800	-2.013	1.00	69.51	A16S
ATOM	23396	C2	A	A1110	199.503	148.985	-0.961	1.00	69.51	A16S
ATOM	23397	N1	A	A1110	199.315	148.194	0.103	1.00	69.51	A16S
ATOM	23398	C6	A	A1110	199.989	147.029	0.171	1.00	69.51	A16S
ATOM	23399	N6	A	A1110	199.794	146.226	1.216	1.00	69.51	A16S
ATOM	23400	C5	A	A1110	200.853	146.725	-0.867	1.00	69.51	A16S
ATOM	23401	N7	A	A1110	201.689	145.643	-1.085	1.00	69.51	A16S

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ATOM	23402	C8	A	A1110	202.251	145.914	-2.235	1.00	69.51	A16S
ATOM	23403	C2*	A	A1110	203.382	148.687	-3.851	1.00	56.04	A16S
ATOM	23404	O2*	A	A1110	203.363	149.592	-4.942	1.00	56.04	A16S
ATOM	23405	C3*	A	A1110	204.607	147.781	-3.828	1.00	56.04	A16S
ATOM	23406	O3*	A	A1110	205.831	148.461	-4.080	1.00	56.04	A16S
ATOM	23407	P	A	A1111	206.846	148.733	-2.858	1.00	82.01	A16S
ATOM	23408	O1P	A	A1111	208.086	149.293	-3.454	1.00	71.12	A16S
ATOM	23409	O2P	A	A1111	206.931	147.533	-1.972	1.00	71.12	A16S
ATOM	23410	O5*	A	A1111	206.125	149.875	-2.017	1.00	82.01	A16S
ATOM	23411	C5*	A	A1111	205.853	151.171	-2.592	1.00	82.01	A16S
ATOM	23412	C4*	A	A1111	205.011	151.996	-1.643	1.00	82.01	A16S
ATOM	23413	O4*	A	A1111	203.698	151.390	-1.516	1.00	82.01	A16S
ATOM	23414	C1*	A	A1111	203.248	151.488	-0.176	1.00	82.01	A16S
ATOM	23415	N9	A	A1111	203.153	150.130	0.372	1.00	71.12	A16S
ATOM	23416	C4	A	A1111	202.339	149.702	1.397	1.00	71.12	A16S
ATOM	23417	N3	A	A1111	201.430	150.421	2.075	1.00	71.12	A16S
ATOM	23418	C2	A	A1111	200.846	149.673	3.013	1.00	71.12	A16S
ATOM	23419	N1	A	A1111	201.058	148.390	3.333	1.00	71.12	A16S
ATOM	23420	C6	A	A1111	201.984	147.700	2.642	1.00	71.12	A16S
ATOM	23421	N6	A	A1111	202.212	146.431	2.983	1.00	71.12	A16S
ATOM	23422	C5	A	A1111	202.661	148.371	1.605	1.00	71.12	A16S
ATOM	23423	N7	A	A1111	203.629	147.957	0.704	1.00	71.12	A16S
ATOM	23424	C8	A	A1111	203.883	149.032	-0.004	1.00	71.12	A16S
ATOM	23425	C2*	A	A1111	204.273	152.334	0.584	1.00	82.01	A16S
ATOM	23426	O2*	A	A1111	203.901	153.699	0.536	1.00	82.01	A16S
ATOM	23427	C3*	A	A1111	205.537	152.068	-0.218	1.00	82.01	A16S
ATOM	23428	O3*	A	A1111	206.521	153.079	-0.051	1.00	82.01	A16S
ATOM	23429	P	C	A1112	207.678	152.885	1.050	1.00	76.99	A16S
ATOM	23430	O1P	C	A1112	208.527	154.100	0.966	1.00	80.87	A16S
ATOM	23431	O2P	C	A1112	208.307	151.539	0.900	1.00	80.87	A16S
ATOM	23432	O5*	C	A1112	206.888	152.917	2.439	1.00	76.99	A16S
ATOM	23433	C5*	C	A1112	206.256	154.133	2.908	1.00	76.99	A16S
ATOM	23434	C4*	C	A1112	205.588	153.908	4.248	1.00	76.99	A16S
ATOM	23435	O4*	C	A1112	204.508	152.957	4.092	1.00	76.99	A16S
ATOM	23436	C1*	C	A1112	204.411	152.161	5.255	1.00	76.99	A16S
ATOM	23437	N1	C	A1112	204.595	150.754	4.877	1.00	80.87	A16S
ATOM	23438	C6	C	A1112	205.284	150.412	3.747	1.00	80.87	A16S
ATOM	23439	C2	C	A1112	204.053	149.760	5.702	1.00	80.87	A16S
ATOM	23440	O2	C	A1112	203.412	150.091	6.707	1.00	80.87	A16S
ATOM	23441	N3	C	A1112	204.231	148.467	5.379	1.00	80.87	A16S
ATOM	23442	C4	C	A1112	204.902	148.141	4.277	1.00	80.87	A16S
ATOM	23443	N4	C	A1112	205.041	146.841	4.000	1.00	80.87	A16S
ATOM	23444	C5	C	A1112	205.457	149.131	3.411	1.00	80.87	A16S
ATOM	23445	C2*	C	A1112	205.462	152.639	6.257	1.00	76.99	A16S
ATOM	23446	O2*	C	A1112	204.849	153.521	7.171	1.00	76.99	A16S
ATOM	23447	C3*	C	A1112	206.468	153.339	5.353	1.00	76.99	A16S
ATOM	23448	O3*	C	A1112	207.135	154.378	6.065	1.00	76.99	A16S
ATOM	23449	P	C	A1113	208.733	154.520	5.968	1.00	68.72	A16S
ATOM	23450	O1P	C	A1113	209.126	155.775	6.662	1.00	73.46	A16S
ATOM	23451	O2P	C	A1113	209.105	154.338	4.542	1.00	73.46	A16S
ATOM	23452	O5*	C	A1113	209.288	153.291	6.815	1.00	68.72	A16S
ATOM	23453	C5*	C	A1113	209.310	153.333	8.247	1.00	68.72	A16S
ATOM	23454	C4*	C	A1113	210.078	152.155	8.785	1.00	68.72	A16S
ATOM	23455	O4*	C	A1113	209.404	150.937	8.374	1.00	68.72	A16S
ATOM	23456	C1*	C	A1113	210.357	149.946	8.013	1.00	68.72	A16S
ATOM	23457	N1	C	A1113	210.278	149.732	6.546	1.00	73.46	A16S
ATOM	23458	C6	C	A1113	209.605	150.612	5.737	1.00	73.46	A16S
ATOM	23459	C2	C	A1113	210.931	148.623	5.987	1.00	73.46	A16S
ATOM	23460	O2	C	A1113	211.506	147.817	6.739	1.00	73.46	A16S
ATOM	23461	N3	C	A1113	210.919	148.460	4.641	1.00	73.46	A16S
ATOM	23462	C4	C	A1113	210.284	149.344	3.864	1.00	73.46	A16S
ATOM	23463	N4	C	A1113	210.327	149.160	2.543	1.00	73.46	A16S
ATOM	23464	C5	C	A1113	209.584	150.459	4.407	1.00	73.46	A16S
ATOM	23465	C2*	C	A1113	211.728	150.498	8.394	1.00	68.72	A16S
ATOM	23466	O2*	C	A1113	212.061	150.114	9.717	1.00	68.72	A16S
ATOM	23467	C3*	C	A1113	211.487	151.993	8.243	1.00	68.72	A16S
ATOM	23468	O3*	C	A1113	212.459	152.790	8.899	1.00	68.72	A16S
ATOM	23469	P	C	A1114	213.688	153.384	8.042	1.00	76.90	A16S
ATOM	23470	O1P	C	A1114	214.305	154.517	8.794	1.00	70.63	A16S
ATOM	23471	O2P	C	A1114	213.183	153.607	6.646	1.00	70.63	A16S
ATOM	23472	O5*	C	A1114	214.738	152.187	8.002	1.00	76.90	A16S
ATOM	23473	C5*	C	A1114	215.082	151.465	9.193	1.00	76.90	A16S
ATOM	23474	C4*	C	A1114	216.005	150.330	8.849	1.00	76.90	A16S
ATOM	23475	O4*	C	A1114	215.281	149.320	8.103	1.00	76.90	A16S
ATOM	23476	C1*	C	A1114	216.104	148.804	7.070	1.00	76.90	A16S
ATOM	23477	N1	C	A1114	215.516	149.185	5.772	1.00	70.63	A16S
ATOM	23478	C6	C	A1114	214.647	150.235	5.677	1.00	70.63	A16S

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ATOM	23479	C2	C	A1114	215.854	148.453	4.636	1.00	70.63	A16S
ATOM	23480	O2	C	A1114	216.675	147.535	4.736	1.00	70.63	A16S
ATOM	23481	N3	C	A1114	215.284	148.767	3.454	1.00	70.63	A16S
ATOM	23482	C4	C	A1114	214.418	149.777	3.378	1.00	70.63	A16S
ATOM	23483	N4	C	A1114	213.854	150.036	2.195	1.00	70.63	A16S
ATOM	23484	C5	C	A1114	214.082	150.564	4.511	1.00	70.63	A16S
ATOM	23485	C2*	C	A1114	217.490	149.416	7.244	1.00	76.90	A16S
ATOM	23486	O2*	C	A1114	218.292	148.570	8.044	1.00	76.90	A16S
ATOM	23487	C3*	C	A1114	217.150	150.724	7.936	1.00	76.90	A16S
ATOM	23488	O3*	C	A1114	218.249	151.265	8.640	1.00	76.90	A16S
ATOM	23489	P	C	A1115	219.226	152.299	7.894	1.00	89.46	A16S
ATOM	23490	O1P	C	A1115	220.188	152.746	8.932	1.00	67.63	A16S
ATOM	23491	O2P	C	A1115	218.422	153.308	7.136	1.00	67.63	A16S
ATOM	23492	O5*	C	A1115	220.005	151.399	6.836	1.00	89.46	A16S
ATOM	23493	C5*	C	A1115	220.990	150.437	7.264	1.00	89.46	A16S
ATOM	23494	C4*	C	A1115	221.694	149.852	6.068	1.00	89.46	A16S
ATOM	23495	O4*	C	A1115	220.769	149.019	5.323	1.00	89.46	A16S
ATOM	23496	C1*	C	A1115	221.038	149.130	3.935	1.00	89.46	A16S
ATOM	23497	N1	C	A1115	219.863	149.712	3.258	1.00	67.63	A16S
ATOM	23498	C6	C	A1115	218.865	150.318	3.966	1.00	67.63	A16S
ATOM	23499	C2	C	A1115	219.799	149.655	1.859	1.00	67.63	A16S
ATOM	23500	O2	C	A1115	220.694	149.065	1.242	1.00	67.63	A16S
ATOM	23501	N3	C	A1115	218.764	150.239	1.217	1.00	67.63	A16S
ATOM	23502	C4	C	A1115	217.812	150.856	1.917	1.00	67.63	A16S
ATOM	23503	N4	C	A1115	216.827	151.459	1.241	1.00	67.63	A16S
ATOM	23504	C5	C	A1115	217.830	150.895	3.343	1.00	67.63	A16S
ATOM	23505	C2*	C	A1115	222.249	150.041	3.775	1.00	89.46	A16S
ATOM	23506	O2*	C	A1115	223.416	149.254	3.707	1.00	89.46	A16S
ATOM	23507	C3*	C	A1115	222.178	150.864	5.048	1.00	89.46	A16S
ATOM	23508	O3*	C	A1115	223.424	151.434	5.379	1.00	89.46	A16S
ATOM	23509	P	C	A1116	223.809	152.879	4.785	1.00	70.95	A16S
ATOM	23510	O1P	C	A1116	225.113	153.235	5.414	1.00	65.11	A16S
ATOM	23511	O2P	C	A1116	222.647	153.812	4.900	1.00	65.11	A16S
ATOM	23512	O5*	C	A1116	224.031	152.633	3.227	1.00	70.95	A16S
ATOM	23513	C5*	C	A1116	225.023	151.714	2.765	1.00	70.95	A16S
ATOM	23514	C4*	C	A1116	224.963	151.598	1.270	1.00	70.95	A16S
ATOM	23515	O4*	C	A1116	223.686	151.035	0.869	1.00	70.95	A16S
ATOM	23516	C1*	C	A1116	223.356	151.495	-0.434	1.00	70.95	A16S
ATOM	23517	N1	C	A1116	222.012	152.108	-0.438	1.00	65.11	A16S
ATOM	23518	C6	C	A1116	221.339	152.375	0.720	1.00	65.11	A16S
ATOM	23519	C2	C	A1116	221.443	152.450	-1.680	1.00	65.11	A16S
ATOM	23520	O2	C	A1116	222.046	152.140	-2.723	1.00	65.11	A16S
ATOM	23521	N3	C	A1116	220.257	153.098	-1.712	1.00	65.11	A16S
ATOM	23522	C4	C	A1116	219.629	153.385	-0.576	1.00	65.11	A16S
ATOM	23523	N4	C	A1116	218.479	154.051	-0.655	1.00	65.11	A16S
ATOM	23524	C5	C	A1116	220.156	153.006	0.698	1.00	65.11	A16S
ATOM	23525	C2*	C	A1116	224.417	152.515	-0.846	1.00	70.95	A16S
ATOM	23526	O2*	C	A1116	225.327	151.926	-1.756	1.00	70.95	A16S
ATOM	23527	C3*	C	A1116	225.020	152.902	0.502	1.00	70.95	A16S
ATOM	23528	O3*	C	A1116	226.331	153.438	0.397	1.00	70.95	A16S
ATOM	23529	P	G	A1117	226.558	155.020	0.610	1.00	73.30	A16S
ATOM	23530	O1P	G	A1117	227.954	155.183	1.088	1.00	70.24	A16S
ATOM	23531	O2P	G	A1117	225.424	155.533	1.433	1.00	70.24	A16S
ATOM	23532	O5*	G	A1117	226.423	155.651	-0.846	1.00	73.30	A16S
ATOM	23533	C5*	G	A1117	225.292	155.326	-1.643	1.00	73.30	A16S
ATOM	23534	C4*	G	A1117	225.466	155.793	-3.060	1.00	73.30	A16S
ATOM	23535	O4*	G	A1117	224.376	155.189	-3.794	1.00	73.30	A16S
ATOM	23536	C1*	G	A1117	223.567	156.190	-4.365	1.00	73.30	A16S
ATOM	23537	N9	G	A1117	222.346	156.275	-3.561	1.00	70.24	A16S
ATOM	23538	C4	G	A1117	221.074	156.527	-4.018	1.00	70.24	A16S
ATOM	23539	N3	G	A1117	220.720	156.723	-5.303	1.00	70.24	A16S
ATOM	23540	C2	G	A1117	219.423	156.951	-5.426	1.00	70.24	A16S
ATOM	23541	N2	G	A1117	218.893	157.147	-6.646	1.00	70.24	A16S
ATOM	23542	N1	G	A1117	218.549	156.998	-4.367	1.00	70.24	A16S
ATOM	23543	C6	G	A1117	218.896	156.800	-3.037	1.00	70.24	A16S
ATOM	23544	O6	G	A1117	218.031	156.875	-2.157	1.00	70.24	A16S
ATOM	23545	C5	G	A1117	220.276	156.534	-2.894	1.00	70.24	A16S
ATOM	23546	N7	G	A1117	221.022	156.264	-1.757	1.00	70.24	A16S
ATOM	23547	C8	G	A1117	222.241	156.120	-2.197	1.00	70.24	A16S
ATOM	23548	C2*	G	A1117	224.417	157.464	-4.438	1.00	73.30	A16S
ATOM	23549	O2*	G	A1117	225.084	157.516	-5.685	1.00	73.30	A16S
ATOM	23550	C3*	G	A1117	225.336	157.304	-3.221	1.00	73.30	A16S
ATOM	23551	O3*	G	A1117	226.634	157.901	-3.410	1.00	73.30	A16S
ATOM	23552	P	C	A1118	227.111	159.138	-2.483	1.00	79.01	A16S
ATOM	23553	O1P	C	A1118	228.547	159.357	-2.788	1.00	85.81	A16S
ATOM	23554	O2P	C	A1118	226.698	158.888	-1.067	1.00	85.81	A16S
ATOM	23555	O5*	C	A1118	226.289	160.378	-3.059	1.00	79.01	A16S

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ATOM	23556	C5*	C	A1118	226.617	160.955	-4.339	1.00	79.01	A16S
ATOM	23557	C4*	C	A1118	225.806	162.212	-4.581	1.00	79.01	A16S
ATOM	23558	O4*	C	A1118	224.417	161.850	-4.807	1.00	79.01	A16S
ATOM	23559	C1*	C	A1118	223.564	162.810	-4.199	1.00	79.01	A16S
ATOM	23560	N1	C	A1118	222.849	162.148	-3.087	1.00	85.81	A16S
ATOM	23561	C6	C	A1118	223.421	161.105	-2.411	1.00	85.81	A16S
ATOM	23562	C2	C	A1118	221.580	162.611	-2.717	1.00	85.81	A16S
ATOM	23563	O2	C	A1118	221.082	163.560	-3.335	1.00	85.81	A16S
ATOM	23564	N3	C	A1118	220.931	162.016	-1.691	1.00	85.81	A16S
ATOM	23565	C4	C	A1118	221.506	161.005	-1.035	1.00	85.81	A16S
ATOM	23566	N4	C	A1118	220.834	160.449	-0.022	1.00	85.81	A16S
ATOM	23567	C5	C	A1118	222.795	160.515	-1.388	1.00	85.81	A16S
ATOM	23568	C2*	C	A1118	224.444	163.950	-3.681	1.00	79.01	A16S
ATOM	23569	O2*	C	A1118	224.531	164.986	-4.645	1.00	79.01	A16S
ATOM	23570	C3*	C	A1118	225.761	163.220	-3.434	1.00	79.01	A16S
ATOM	23571	O3*	C	A1118	226.892	164.091	-3.365	1.00	79.01	A16S
ATOM	23572	P	C	A1119	227.394	164.628	-1.930	1.00	79.26	A16S
ATOM	23573	O1P	C	A1119	228.671	165.322	-2.183	1.00	87.56	A16S
ATOM	23574	O2P	C	A1119	227.349	163.533	-0.928	1.00	87.56	A16S
ATOM	23575	O5*	C	A1119	226.298	165.713	-1.537	1.00	79.26	A16S
ATOM	23576	C5*	C	A1119	226.199	166.941	-2.281	1.00	79.26	A16S
ATOM	23577	C4*	C	A1119	225.064	167.804	-1.765	1.00	79.26	A16S
ATOM	23578	O4*	C	A1119	223.795	167.130	-1.994	1.00	79.26	A16S
ATOM	23579	C1*	C	A1119	222.881	167.473	-0.961	1.00	79.26	A16S
ATOM	23580	N1	C	A1119	222.514	166.243	-0.226	1.00	87.56	A16S
ATOM	23581	C6	C	A1119	223.399	165.207	-0.097	1.00	87.56	A16S
ATOM	23582	C2	C	A1119	221.247	166.159	0.356	1.00	87.56	A16S
ATOM	23583	O2	C	A1119	220.450	167.103	0.207	1.00	87.56	A16S
ATOM	23584	N3	C	A1119	220.917	165.052	1.064	1.00	87.56	A16S
ATOM	23585	C4	C	A1119	221.794	164.055	1.194	1.00	87.56	A16S
ATOM	23586	N4	C	A1119	221.431	162.990	1.913	1.00	87.56	A16S
ATOM	23587	C5	C	A1119	223.082	164.107	0.597	1.00	87.56	A16S
ATOM	23588	C2*	C	A1119	223.576	168.491	-0.053	1.00	79.26	A16S
ATOM	23589	O2*	C	A1119	223.253	169.806	-0.473	1.00	79.26	A16S
ATOM	23590	C3*	C	A1119	225.044	168.152	-0.281	1.00	79.26	A16S
ATOM	23591	O3*	C	A1119	225.898	169.239	0.061	1.00	79.26	A16S
ATOM	23592	P	G	A1120	226.421	169.390	1.580	1.00	130.54	A16S
ATOM	23593	O1P	G	A1120	227.526	170.387	1.546	1.00	96.71	A16S
ATOM	23594	O2P	G	A1120	226.662	168.042	2.181	1.00	96.71	A16S
ATOM	23595	O5*	G	A1120	225.176	170.029	2.345	1.00	130.54	A16S
ATOM	23596	C5*	G	A1120	224.516	171.214	1.841	1.00	130.54	A16S
ATOM	23597	C4*	G	A1120	223.219	171.462	2.589	1.00	130.54	A16S
ATOM	23598	O4*	G	A1120	222.318	170.341	2.380	1.00	130.54	A16S
ATOM	23599	C1*	G	A1120	221.555	170.112	3.554	1.00	130.54	A16S
ATOM	23600	N9	G	A1120	221.857	168.772	4.059	1.00	96.71	A16S
ATOM	23601	C4	G	A1120	221.299	168.182	5.171	1.00	96.71	A16S
ATOM	23602	N3	G	A1120	220.363	168.732	5.974	1.00	96.71	A16S
ATOM	23603	C2	G	A1120	220.030	167.930	6.972	1.00	96.71	A16S
ATOM	23604	N2	G	A1120	219.109	168.323	7.864	1.00	96.71	A16S
ATOM	23605	N1	G	A1120	220.574	166.686	7.171	1.00	96.71	A16S
ATOM	23606	C6	G	A1120	221.541	166.099	6.365	1.00	96.71	A16S
ATOM	23607	O6	G	A1120	221.972	164.975	6.647	1.00	96.71	A16S
ATOM	23608	C5	G	A1120	221.907	166.950	5.278	1.00	96.71	A16S
ATOM	23609	N7	G	A1120	222.818	166.758	4.245	1.00	96.71	A16S
ATOM	23610	C8	G	A1120	222.753	167.860	3.548	1.00	96.71	A16S
ATOM	23611	C2*	G	A1120	221.924	171.199	4.565	1.00	130.54	A16S
ATOM	23612	O2*	G	A1120	220.998	172.262	4.466	1.00	130.54	A16S
ATOM	23613	C3*	G	A1120	223.322	171.587	4.103	1.00	130.54	A16S
ATOM	23614	O3*	G	A1120	223.676	172.901	4.520	1.00	130.54	A16S
ATOM	23615	P	U	A1121	224.569	173.102	5.846	1.00	114.99	A16S
ATOM	23616	O1P	U	A1121	224.957	174.536	5.886	1.00	115.56	A16S
ATOM	23617	O2P	U	A1121	225.621	172.054	5.896	1.00	115.56	A16S
ATOM	23618	O5*	U	A1121	223.562	172.817	7.047	1.00	114.99	A16S
ATOM	23619	C5*	U	A1121	222.476	173.714	7.325	1.00	114.99	A16S
ATOM	23620	C4*	U	A1121	221.705	173.235	8.525	1.00	114.99	A16S
ATOM	23621	O4*	U	A1121	221.094	171.953	8.220	1.00	114.99	A16S
ATOM	23622	C1*	U	A1121	221.084	171.140	9.386	1.00	114.99	A16S
ATOM	23623	N1	U	A1121	221.829	169.896	9.120	1.00	115.56	A16S
ATOM	23624	C6	U	A1121	222.727	169.796	8.077	1.00	115.56	A16S
ATOM	23625	C2	U	A1121	221.607	168.815	9.971	1.00	115.56	A16S
ATOM	23626	O2	U	A1121	220.819	168.847	10.907	1.00	115.56	A16S
ATOM	23627	N3	U	A1121	222.346	167.696	9.687	1.00	115.56	A16S
ATOM	23628	C4	U	A1121	223.261	167.538	8.673	1.00	115.56	A16S
ATOM	23629	O4	U	A1121	223.882	166.483	8.586	1.00	115.56	A16S
ATOM	23630	C5	U	A1121	223.429	168.684	7.834	1.00	115.56	A16S
ATOM	23631	C2*	U	A1121	221.702	171.947	10.529	1.00	114.99	A16S
ATOM	23632	O2*	U	A1121	220.677	172.507	11.329	1.00	114.99	A16S

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ATOM	23633	C3* U	A1121	222.538	172.973	9.770	1.00114.99	A16S
ATOM	23634	O3* U	A1121	222.786	174.151	10.531	1.00114.99	A16S
ATOM	23635	P U	A1122	224.042	174.194	11.539	1.00100.19	A16S
ATOM	23636	O1P U	A1122	224.002	175.490	12.267	1.00112.68	A16S
ATOM	23637	O2P U	A1122	225.259	173.821	10.767	1.00112.68	A16S
ATOM	23638	O5* U	A1122	223.730	173.036	12.592	1.00100.19	A16S
ATOM	23639	C5* U	A1122	222.605	173.142	13.485	1.00100.19	A16S
ATOM	23640	C4* U	A1122	222.555	171.959	14.420	1.00100.19	A16S
ATOM	23641	O4* U	A1122	222.175	170.760	13.697	1.00100.19	A16S
ATOM	23642	C1* U	A1122	222.844	169.636	14.259	1.00100.19	A16S
ATOM	23643	N1 U	A1122	223.671	168.989	13.222	1.00112.68	A16S
ATOM	23644	C6 U	A1122	224.004	169.635	12.046	1.00112.68	A16S
ATOM	23645	C2 U	A1122	224.115	167.693	13.468	1.00112.68	A16S
ATOM	23646	O2 U	A1122	223.865	167.085	14.501	1.00112.68	A16S
ATOM	23647	N3 U	A1122	224.869	167.139	12.462	1.00112.68	A16S
ATOM	23648	C4 U	A1122	225.227	167.727	11.268	1.00112.68	A16S
ATOM	23649	O4 U	A1122	225.865	167.074	10.444	1.00112.68	A16S
ATOM	23650	C5 U	A1122	224.749	169.064	11.092	1.00112.68	A16S
ATOM	23651	C2* U	A1122	223.688	170.131	15.436	1.00100.19	A16S
ATOM	23652	O2* U	A1122	223.005	169.917	16.656	1.00100.19	A16S
ATOM	23653	C3* U	A1122	223.872	171.602	15.086	1.00100.19	A16S
ATOM	23654	O3* U	A1122	224.151	172.398	16.222	1.00100.19	A16S
ATOM	23655	P A	A1123	225.678	172.728	16.592	1.00136.42	A16S
ATOM	23656	O1P A	A1123	225.646	173.450	17.886	1.00 91.86	A16S
ATOM	23657	O2P A	A1123	226.331	173.357	15.410	1.00 91.86	A16S
ATOM	23658	O5* A	A1123	226.336	171.297	16.842	1.00136.42	A16S
ATOM	23659	C5* A	A1123	226.083	170.578	18.064	1.00136.42	A16S
ATOM	23660	C4* A	A1123	226.947	169.341	18.147	1.00136.42	A16S
ATOM	23661	O4* A	A1123	226.502	168.349	17.184	1.00136.42	A16S
ATOM	23662	C1* A	A1123	227.606	167.552	16.782	1.00136.42	A16S
ATOM	23663	N9 A	A1123	227.745	167.606	15.323	1.00 91.86	A16S
ATOM	23664	C4 A	A1123	228.049	166.543	14.501	1.00 91.86	A16S
ATOM	23665	N3 A	A1123	228.230	165.258	14.857	1.00 91.86	A16S
ATOM	23666	C2 A	A1123	228.532	164.516	13.795	1.00 91.86	A16S
ATOM	23667	N1 A	A1123	228.669	164.883	12.513	1.00 91.86	A16S
ATOM	23668	C6 A	A1123	228.483	166.181	12.187	1.00 91.86	A16S
ATOM	23669	N6 A	A1123	228.631	166.546	10.911	1.00 91.86	A16S
ATOM	23670	C5 A	A1123	228.149	167.072	13.224	1.00 91.86	A16S
ATOM	23671	N7 A	A1123	227.887	168.435	13.235	1.00 91.86	A16S
ATOM	23672	C8 A	A1123	227.646	168.700	14.496	1.00 91.86	A16S
ATOM	23673	C2* A	A1123	228.852	168.087	17.493	1.00136.42	A16S
ATOM	23674	O2* A	A1123	229.125	167.296	18.632	1.00136.42	A16S
ATOM	23675	C3* A	A1123	228.427	169.507	17.846	1.00136.42	A16S
ATOM	23676	O3* A	A1123	229.160	170.021	18.946	1.00136.42	A16S
ATOM	23677	P G	A1124	230.096	171.310	18.738	1.00169.37	A16S
ATOM	23678	O1P G	A1124	230.286	171.941	20.067	1.00120.94	A16S
ATOM	23679	O2P G	A1124	229.536	172.106	17.616	1.00120.94	A16S
ATOM	23680	O5* G	A1124	231.499	170.730	18.262	1.00169.37	A16S
ATOM	23681	C5* G	A1124	232.373	170.033	19.173	1.00169.37	A16S
ATOM	23682	C4* G	A1124	232.526	168.605	18.725	1.00169.37	A16S
ATOM	23683	O4* G	A1124	231.835	168.457	17.470	1.00169.37	A16S
ATOM	23684	C1* G	A1124	232.525	167.542	16.653	1.00169.37	A16S
ATOM	23685	N9 G	A1124	232.562	168.084	15.293	1.00120.94	A16S
ATOM	23686	C4 G	A1124	232.693	167.369	14.119	1.00120.94	A16S
ATOM	23687	N3 G	A1124	232.873	166.032	14.015	1.00120.94	A16S
ATOM	23688	C2 G	A1124	232.936	165.640	12.752	1.00120.94	A16S
ATOM	23689	N2 G	A1124	233.122	164.346	12.467	1.00120.94	A16S
ATOM	23690	N1 G	A1124	232.823	166.490	11.673	1.00120.94	A16S
ATOM	23691	C6 G	A1124	232.633	167.868	11.754	1.00120.94	A16S
ATOM	23692	O6 G	A1124	232.535	168.543	10.719	1.00120.94	A16S
ATOM	23693	C5 G	A1124	232.574	168.306	13.106	1.00120.94	A16S
ATOM	23694	N7 G	A1124	232.406	169.581	13.630	1.00120.94	A16S
ATOM	23695	C8 G	A1124	232.414	169.403	14.925	1.00120.94	A16S
ATOM	23696	C2* G	A1124	233.816	167.104	17.363	1.00169.37	A16S
ATOM	23697	O2* G	A1124	233.659	165.773	17.820	1.00169.37	A16S
ATOM	23698	C3* G	A1124	233.956	168.139	18.491	1.00169.37	A16S
ATOM	23699	O3* G	A1124	234.413	167.553	19.722	1.00169.37	A16S
ATOM	23700	P U	A1125	235.986	167.406	20.031	1.00197.98	A16S
ATOM	23701	O1P U	A1125	236.110	167.306	21.508	1.00 74.14	A16S
ATOM	23702	O2P U	A1125	236.680	168.513	19.313	1.00 74.14	A16S
ATOM	23703	O5* U	A1125	236.374	165.959	19.456	1.00197.98	A16S
ATOM	23704	C5* U	A1125	237.284	165.792	18.336	1.00197.98	A16S
ATOM	23705	C4* U	A1125	238.465	164.914	18.724	1.00197.98	A16S
ATOM	23706	O4* U	A1125	238.941	165.353	20.020	1.00197.98	A16S
ATOM	23707	C1* U	A1125	239.482	164.255	20.726	1.00197.98	A16S
ATOM	23708	N1 U	A1125	238.807	164.142	22.022	1.00 74.14	A16S
ATOM	23709	C6 U	A1125	237.571	164.722	22.252	1.00 74.14	A16S

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ATOM	23710	C2	U	A1125	239.461	163.427	23.015	1.00	74.14	A16S
ATOM	23711	O2	U	A1125	240.543	162.885	22.835	1.00	74.14	A16S
ATOM	23712	N3	U	A1125	238.794	163.361	24.220	1.00	74.14	A16S
ATOM	23713	C4	U	A1125	237.555	163.919	24.524	1.00	74.14	A16S
ATOM	23714	O4	U	A1125	237.071	163.758	25.653	1.00	74.14	A16S
ATOM	23715	C5	U	A1125	236.939	164.637	23.435	1.00	74.14	A16S
ATOM	23716	C2*	U	A1125	239.341	162.998	19.871	1.00197.98		A16S
ATOM	23717	O2*	U	A1125	240.594	162.681	19.300	1.00197.98		A16S
ATOM	23718	C3*	U	A1125	238.261	163.402	18.865	1.00197.98		A16S
ATOM	23719	O3*	U	A1125	238.494	162.746	17.605	1.00197.98		A16S
ATOM	23720	P	U	A1126	238.479	161.126	17.497	1.00160.46		A16S
ATOM	23721	O1P	U	A1126	237.111	160.766	17.042	1.00197.98		A16S
ATOM	23722	O2P	U	A1126	239.016	160.511	18.729	1.00197.98		A16S
ATOM	23723	O5*	U	A1126	239.508	160.798	16.314	1.00160.46		A16S
ATOM	23724	C5*	U	A1126	239.583	159.476	15.726	1.00160.46		A16S
ATOM	23725	C4*	U	A1126	239.025	159.499	14.317	1.00160.46		A16S
ATOM	23726	O4*	U	A1126	237.697	160.076	14.364	1.00160.46		A16S
ATOM	23727	C1*	U	A1126	237.471	160.870	13.212	1.00160.46		A16S
ATOM	23728	N1	U	A1126	237.100	162.232	13.638	1.00197.98		A16S
ATOM	23729	C6	U	A1126	237.480	162.730	14.865	1.00197.98		A16S
ATOM	23730	C2	U	A1126	236.344	163.004	12.767	1.00197.98		A16S
ATOM	23731	O2	U	A1126	235.991	162.615	11.662	1.00197.98		A16S
ATOM	23732	N3	U	A1126	236.016	164.252	13.240	1.00197.98		A16S
ATOM	23733	C4	U	A1126	236.360	164.797	14.461	1.00197.98		A16S
ATOM	23734	O4	U	A1126	235.978	165.929	14.747	1.00197.98		A16S
ATOM	23735	C5	U	A1126	237.143	163.949	15.292	1.00197.98		A16S
ATOM	23736	C2*	U	A1126	238.712	160.782	12.322	1.00160.46		A16S
ATOM	23737	O2*	U	A1126	238.486	159.838	11.296	1.00160.46		A16S
ATOM	23738	C3*	U	A1126	239.789	160.347	13.311	1.00160.46		A16S
ATOM	23739	O3*	U	A1126	240.765	159.555	12.648	1.00160.46		A16S
ATOM	23740	P	G	A1127	242.118	160.232	12.110	1.00	76.43	A16S
ATOM	23741	O1P	G	A1127	242.779	159.259	11.204	1.00197.51		A16S
ATOM	23742	O2P	G	A1127	242.852	160.745	13.291	1.00197.51		A16S
ATOM	23743	O5*	G	A1127	241.640	161.470	11.232	1.00	76.43	A16S
ATOM	23744	C5*	G	A1127	241.159	161.277	9.901	1.00	76.43	A16S
ATOM	23745	C4*	G	A1127	240.538	162.547	9.393	1.00	76.43	A16S
ATOM	23746	O4*	G	A1127	239.466	162.927	10.285	1.00	76.43	A16S
ATOM	23747	C1*	G	A1127	239.419	164.337	10.403	1.00	76.43	A16S
ATOM	23748	N9	G	A1127	239.560	164.691	11.811	1.00197.51		A16S
ATOM	23749	C4	G	A1127	239.374	165.935	12.338	1.00197.51		A16S
ATOM	23750	N3	G	A1127	239.056	167.037	11.640	1.00197.51		A16S
ATOM	23751	C2	G	A1127	238.924	168.088	12.416	1.00197.51		A16S
ATOM	23752	N2	G	A1127	238.606	169.263	11.871	1.00197.51		A16S
ATOM	23753	N1	G	A1127	239.091	168.059	13.781	1.00197.51		A16S
ATOM	23754	C6	G	A1127	239.420	166.927	14.521	1.00197.51		A16S
ATOM	23755	O6	G	A1127	239.537	167.003	15.748	1.00197.51		A16S
ATOM	23756	C5	G	A1127	239.569	165.795	13.694	1.00197.51		A16S
ATOM	23757	N7	G	A1127	239.894	164.487	14.012	1.00197.51		A16S
ATOM	23758	C8	G	A1127	239.881	163.867	12.864	1.00197.51		A16S
ATOM	23759	C2*	G	A1127	240.505	164.930	9.508	1.00	76.43	A16S
ATOM	23760	O2*	G	A1127	239.908	165.368	8.301	1.00	76.43	A16S
ATOM	23761	C3*	G	A1127	241.465	163.748	9.368	1.00	76.43	A16S
ATOM	23762	O3*	G	A1127	242.213	163.764	8.161	1.00	76.43	A16S
ATOM	23763	P	C	A1128	243.765	163.343	8.182	1.00114.94		A16S
ATOM	23764	O1P	C	A1128	243.886	162.041	7.487	1.00114.07		A16S
ATOM	23765	O2P	C	A1128	244.290	163.477	9.566	1.00114.07		A16S
ATOM	23766	O5*	C	A1128	244.443	164.450	7.261	1.00114.94		A16S
ATOM	23767	C5*	C	A1128	243.760	164.950	6.092	1.00114.94		A16S
ATOM	23768	C4*	C	A1128	243.501	166.435	6.228	1.00114.94		A16S
ATOM	23769	O4*	C	A1128	242.847	166.676	7.495	1.00114.94		A16S
ATOM	23770	C1*	C	A1128	243.243	167.936	7.998	1.00114.94		A16S
ATOM	23771	N1	C	A1128	243.680	167.781	9.398	1.00114.07		A16S
ATOM	23772	C6	C	A1128	244.047	166.558	9.891	1.00114.07		A16S
ATOM	23773	C2	C	A1128	243.678	168.906	10.234	1.00114.07		A16S
ATOM	23774	O2	C	A1128	243.400	170.022	9.749	1.00114.07		A16S
ATOM	23775	N3	C	A1128	243.988	168.752	11.546	1.00114.07		A16S
ATOM	23776	C4	C	A1128	244.315	167.546	12.020	1.00114.07		A16S
ATOM	23777	N4	C	A1128	244.596	167.437	13.321	1.00114.07		A16S
ATOM	23778	C5	C	A1128	244.366	166.397	11.182	1.00114.07		A16S
ATOM	23779	C2*	C	A1128	244.236	168.565	7.021	1.00114.94		A16S
ATOM	23780	O2*	C	A1128	243.518	169.456	6.202	1.00114.94		A16S
ATOM	23781	C3*	C	A1128	244.712	167.362	6.212	1.00114.94		A16S
ATOM	23782	O3*	C	A1128	244.961	167.749	4.855	1.00114.94		A16S
ATOM	23783	P	C	A1129	246.241	168.646	4.485	1.00197.98		A16S
ATOM	23784	O1P	C	A1129	246.084	168.988	3.051	1.00170.44		A16S
ATOM	23785	O2P	C	A1129	247.465	167.937	4.946	1.00170.44		A16S
ATOM	23786	O5*	C	A1129	246.045	169.995	5.316	1.00197.98		A16S

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ATOM	23787	C5*	C	A1129	247.026	170.445	6.290	1.00197.98	A16S
ATOM	23788	C4*	C	A1129	247.247	171.937	6.152	1.00197.98	A16S
ATOM	23789	O4*	C	A1129	247.874	172.484	7.339	1.00197.98	A16S
ATOM	23790	C1*	C	A1129	248.650	173.617	6.979	1.00197.98	A16S
ATOM	23791	N1	C	A1129	249.961	173.574	7.680	1.00170.44	A16S
ATOM	23792	C6	C	A1129	250.448	172.400	8.190	1.00170.44	A16S
ATOM	23793	C2	C	A1129	250.699	174.774	7.840	1.00170.44	A16S
ATOM	23794	O2	C	A1129	250.262	175.833	7.350	1.00170.44	A16S
ATOM	23795	N3	C	A1129	251.869	174.741	8.525	1.00170.44	A16S
ATOM	23796	C4	C	A1129	252.317	173.590	9.031	1.00170.44	A16S
ATOM	23797	N4	C	A1129	253.466	173.611	9.710	1.00170.44	A16S
ATOM	23798	C5	C	A1129	251.606	172.364	8.867	1.00170.44	A16S
ATOM	23799	C2*	C	A1129	248.632	173.765	5.449	1.00197.98	A16S
ATOM	23800	O2*	C	A1129	247.783	174.854	5.153	1.00197.98	A16S
ATOM	23801	C3*	C	A1129	248.124	172.387	4.989	1.00197.98	A16S
ATOM	23802	O3*	C	A1129	247.329	172.292	3.788	1.00197.98	A16S
ATOM	23803	P	A	A1130	247.450	173.378	2.597	1.00128.12	A16S
ATOM	23804	O1P	A	A1130	248.809	173.374	1.982	1.00 92.10	A16S
ATOM	23805	O2P	A	A1130	246.878	174.645	3.110	1.00 92.10	A16S
ATOM	23806	O5*	A	A1130	246.429	172.819	1.509	1.00128.12	A16S
ATOM	23807	C5*	A	A1130	245.351	171.946	1.911	1.00128.12	A16S
ATOM	23808	C4*	A	A1130	244.027	172.664	1.829	1.00128.12	A16S
ATOM	23809	O4*	A	A1130	243.116	171.990	2.727	1.00128.12	A16S
ATOM	23810	C1*	A	A1130	242.305	172.940	3.386	1.00128.12	A16S
ATOM	23811	N9	A	A1130	242.483	172.770	4.825	1.00 92.10	A16S
ATOM	23812	C4	A	A1130	241.714	173.318	5.826	1.00 92.10	A16S
ATOM	23813	N3	A	A1130	240.686	174.178	5.691	1.00 92.10	A16S
ATOM	23814	C2	A	A1130	240.157	174.467	6.883	1.00 92.10	A16S
ATOM	23815	N1	A	A1130	240.504	174.016	8.102	1.00 92.10	A16S
ATOM	23816	C6	A	A1130	241.536	173.147	8.201	1.00 92.10	A16S
ATOM	23817	N6	A	A1130	241.865	172.674	9.410	1.00 92.10	A16S
ATOM	23818	C5	A	A1130	242.198	172.780	7.010	1.00 92.10	A16S
ATOM	23819	N7	A	A1130	243.285	171.952	6.763	1.00 92.10	A16S
ATOM	23820	C8	A	A1130	243.419	171.990	5.457	1.00 92.10	A16S
ATOM	23821	C2*	A	A1130	242.649	174.330	2.855	1.00128.12	A16S
ATOM	23822	O2*	A	A1130	241.688	174.679	1.881	1.00128.12	A16S
ATOM	23823	C3*	A	A1130	244.052	174.117	2.292	1.00128.12	A16S
ATOM	23824	O3*	A	A1130	244.272	174.967	1.158	1.00128.12	A16S
ATOM	23825	P	G	A1131	245.349	176.173	1.221	1.00189.24	A16S
ATOM	23826	O1P	G	A1131	244.840	177.240	0.304	1.00131.96	A16S
ATOM	23827	O2P	G	A1131	246.704	175.605	0.982	1.00131.96	A16S
ATOM	23828	O5*	G	A1131	245.260	176.742	2.713	1.00189.24	A16S
ATOM	23829	C5*	G	A1131	245.028	178.148	2.941	1.00189.24	A16S
ATOM	23830	C4*	G	A1131	245.434	178.551	4.340	1.00189.24	A16S
ATOM	23831	O4*	G	A1131	244.490	178.044	5.316	1.00189.24	A16S
ATOM	23832	C1*	G	A1131	245.151	177.864	6.556	1.00189.24	A16S
ATOM	23833	N9	G	A1131	245.015	176.476	6.969	1.00131.96	A16S
ATOM	23834	C4	G	A1131	244.823	176.023	8.251	1.00131.96	A16S
ATOM	23835	N3	G	A1131	244.667	176.792	9.351	1.00131.96	A16S
ATOM	23836	C2	G	A1131	244.534	176.062	10.451	1.00131.96	A16S
ATOM	23837	N2	G	A1131	244.371	176.665	11.642	1.00131.96	A16S
ATOM	23838	N1	G	A1131	244.552	174.687	10.469	1.00131.96	A16S
ATOM	23839	C6	G	A1131	244.709	173.874	9.350	1.00131.96	A16S
ATOM	23840	O6	G	A1131	244.712	172.640	9.479	1.00131.96	A16S
ATOM	23841	C5	G	A1131	244.851	174.648	8.160	1.00131.96	A16S
ATOM	23842	N7	G	A1131	245.025	174.247	6.842	1.00131.96	A16S
ATOM	23843	C8	G	A1131	245.104	175.363	6.172	1.00131.96	A16S
ATOM	23844	C2*	G	A1131	246.626	178.218	6.364	1.00189.24	A16S
ATOM	23845	O2*	G	A1131	246.863	179.519	6.856	1.00189.24	A16S
ATOM	23846	C3*	G	A1131	246.790	178.095	4.852	1.00189.24	A16S
ATOM	23847	O3*	G	A1131	247.852	178.908	4.366	1.00189.24	A16S
ATOM	23848	P	C	A1132	249.377	178.505	4.686	1.00182.68	A16S
ATOM	23849	O1P	C	A1132	250.235	179.251	3.727	1.00146.99	A16S
ATOM	23850	O2P	C	A1132	249.484	177.025	4.763	1.00146.99	A16S
ATOM	23851	O5*	C	A1132	249.621	179.088	6.149	1.00182.68	A16S
ATOM	23852	C5*	C	A1132	249.576	180.509	6.390	1.00182.68	A16S
ATOM	23853	C4*	C	A1132	249.784	180.808	7.857	1.00182.68	A16S
ATOM	23854	O4*	C	A1132	248.653	180.336	8.634	1.00182.68	A16S
ATOM	23855	C1*	C	A1132	249.094	179.954	9.927	1.00182.68	A16S
ATOM	23856	N1	C	A1132	248.663	178.566	10.208	1.00146.99	A16S
ATOM	23857	C6	C	A1132	248.335	177.706	9.196	1.00146.99	A16S
ATOM	23858	C2	C	A1132	248.603	178.134	11.551	1.00146.99	A16S
ATOM	23859	O2	C	A1132	248.897	178.930	12.458	1.00146.99	A16S
ATOM	23860	N3	C	A1132	248.231	176.862	11.821	1.00146.99	A16S
ATOM	23861	C4	C	A1132	247.926	176.031	10.823	1.00146.99	A16S
ATOM	23862	N4	C	A1132	247.579	174.780	11.139	1.00146.99	A16S
ATOM	23863	C5	C	A1132	247.967	176.443	9.456	1.00146.99	A16S

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ATOM	23864	C2*	C	A1132	250.612	180.148	9.989	1.00182.68	A16S
ATOM	23865	O2*	C	A1132	250.912	181.360	10.653	1.00182.68	A16S
ATOM	23866	C3*	C	A1132	250.993	180.161	8.512	1.00182.68	A16S
ATOM	23867	O3*	C	A1132	252.185	180.900	8.271	1.00182.68	A16S
ATOM	23868	P	G	A1133	253.608	180.152	8.319	1.00140.76	A16S
ATOM	23869	O1P	G	A1133	254.611	181.058	7.701	1.00183.38	A16S
ATOM	23870	O2P	G	A1133	253.431	178.779	7.775	1.00183.38	A16S
ATOM	23871	O5*	G	A1133	253.927	180.033	9.878	1.00140.76	A16S
ATOM	23872	C5*	G	A1133	254.407	181.169	10.634	1.00140.76	A16S
ATOM	23873	C4*	G	A1133	254.620	180.786	12.082	1.00140.76	A16S
ATOM	23874	O4*	G	A1133	253.340	180.471	12.691	1.00140.76	A16S
ATOM	23875	C1*	G	A1133	253.485	179.371	13.576	1.00140.76	A16S
ATOM	23876	N9	G	A1133	252.722	178.252	13.029	1.00183.38	A16S
ATOM	23877	C4	G	A1133	252.322	177.118	13.700	1.00183.38	A16S
ATOM	23878	N3	G	A1133	252.533	176.850	15.007	1.00183.38	A16S
ATOM	23879	C2	G	A1133	252.051	175.669	15.351	1.00183.38	A16S
ATOM	23880	N2	G	A1133	252.166	175.241	16.616	1.00183.38	A16S
ATOM	23881	N1	G	A1133	251.419	174.820	14.480	1.00183.38	A16S
ATOM	23882	C6	G	A1133	251.191	175.078	13.132	1.00183.38	A16S
ATOM	23883	O6	G	A1133	250.610	174.242	12.432	1.00183.38	A16S
ATOM	23884	C5	G	A1133	251.696	176.337	12.752	1.00183.38	A16S
ATOM	23885	N7	G	A1133	251.679	176.973	11.520	1.00183.38	A16S
ATOM	23886	C8	G	A1133	252.291	178.104	11.732	1.00183.38	A16S
ATOM	23887	C2*	G	A1133	254.974	179.025	13.642	1.00140.76	A16S
ATOM	23888	O2*	G	A1133	255.573	179.656	14.754	1.00140.76	A16S
ATOM	23889	C3*	G	A1133	255.467	179.543	12.297	1.00140.76	A16S
ATOM	23890	O3*	G	A1133	256.858	179.822	12.278	1.00140.76	A16S
ATOM	23891	P	G	A1134	257.882	178.715	11.714	1.00113.70	A16S
ATOM	23892	O1P	G	A1134	259.182	179.391	11.471	1.00189.94	A16S
ATOM	23893	O2P	G	A1134	257.216	177.991	10.599	1.00189.94	A16S
ATOM	23894	O5*	G	A1134	258.071	177.704	12.934	1.00113.70	A16S
ATOM	23895	C5*	G	A1134	258.687	178.142	14.160	1.00113.70	A16S
ATOM	23896	C4*	G	A1134	258.500	177.108	15.240	1.00113.70	A16S
ATOM	23897	O4*	G	A1134	257.081	176.913	15.469	1.00113.70	A16S
ATOM	23898	C1*	G	A1134	256.825	175.550	15.765	1.00113.70	A16S
ATOM	23899	N9	G	A1134	255.944	175.009	14.727	1.00189.94	A16S
ATOM	23900	C4	G	A1134	255.471	173.714	14.638	1.00189.94	A16S
ATOM	23901	N3	G	A1134	255.716	172.716	15.514	1.00189.94	A16S
ATOM	23902	C2	G	A1134	255.141	171.584	15.146	1.00189.94	A16S
ATOM	23903	N2	G	A1134	255.277	170.488	15.909	1.00189.94	A16S
ATOM	23904	N1	G	A1134	254.390	171.440	14.006	1.00189.94	A16S
ATOM	23905	C6	G	A1134	254.124	172.451	13.089	1.00189.94	A16S
ATOM	23906	O6	G	A1134	253.438	172.210	12.088	1.00189.94	A16S
ATOM	23907	C5	G	A1134	254.728	173.675	13.475	1.00189.94	A16S
ATOM	23908	N7	G	A1134	254.713	174.918	12.858	1.00189.94	A16S
ATOM	23909	C8	G	A1134	255.441	175.676	13.634	1.00189.94	A16S
ATOM	23910	C2*	G	A1134	258.178	174.833	15.819	1.00113.70	A16S
ATOM	23911	O2*	G	A1134	258.644	174.786	17.155	1.00113.70	A16S
ATOM	23912	C3*	G	A1134	259.034	175.721	14.926	1.00113.70	A16S
ATOM	23913	O3*	G	A1134	260.427	175.602	15.208	1.00113.70	A16S
ATOM	23914	P	U	A1135	261.412	174.925	14.119	1.00197.38	A16S
ATOM	23915	O1P	U	A1135	260.926	175.330	12.769	1.00145.97	A16S
ATOM	23916	O2P	U	A1135	262.820	175.216	14.504	1.00145.97	A16S
ATOM	23917	O5*	U	A1135	261.180	173.353	14.278	1.00197.38	A16S
ATOM	23918	C5*	U	A1135	261.401	172.679	15.541	1.00197.38	A16S
ATOM	23919	C4*	U	A1135	260.725	171.325	15.535	1.00197.38	A16S
ATOM	23920	O4*	U	A1135	259.339	171.517	15.152	1.00197.38	A16S
ATOM	23921	C1*	U	A1135	258.912	170.452	14.320	1.00197.38	A16S
ATOM	23922	N1	U	A1135	258.460	171.022	13.038	1.00145.97	A16S
ATOM	23923	C6	U	A1135	259.207	171.975	12.374	1.00145.97	A16S
ATOM	23924	C2	U	A1135	257.247	170.588	12.519	1.00145.97	A16S
ATOM	23925	O2	U	A1135	256.564	169.723	13.047	1.00145.97	A16S
ATOM	23926	N3	U	A1135	256.865	171.202	11.351	1.00145.97	A16S
ATOM	23927	C4	U	A1135	257.557	172.173	10.656	1.00145.97	A16S
ATOM	23928	O4	U	A1135	257.054	172.670	9.650	1.00145.97	A16S
ATOM	23929	C5	U	A1135	258.807	172.545	11.235	1.00145.97	A16S
ATOM	23930	C2*	U	A1135	260.059	169.442	14.220	1.00197.38	A16S
ATOM	23931	O2*	U	A1135	259.851	168.411	15.166	1.00197.38	A16S
ATOM	23932	C3*	U	A1135	261.275	170.308	14.541	1.00197.38	A16S
ATOM	23933	O3*	U	A1135	262.327	169.539	15.133	1.00197.38	A16S
ATOM	23934	P	U	A1136	263.309	168.658	14.204	1.00196.16	A16S
ATOM	23935	O1P	U	A1136	262.988	168.926	12.776	1.00159.82	A16S
ATOM	23936	O2P	U	A1136	264.692	168.874	14.694	1.00159.82	A16S
ATOM	23937	O5*	U	A1136	262.907	167.146	14.522	1.00196.16	A16S
ATOM	23938	C5*	U	A1136	263.738	166.040	14.087	1.00196.16	A16S
ATOM	23939	C4*	U	A1136	263.490	164.825	14.957	1.00196.16	A16S
ATOM	23940	O4*	U	A1136	263.819	165.171	16.324	1.00196.16	A16S

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ATOM	23941	C1* U	A1136	262.873	164.600	17.209	1.00196.16	A16S
ATOM	23942	N1 U	A1136	262.238	165.693	17.967	1.00159.82	A16S
ATOM	23943	C6 U	A1136	262.395	167.014	17.585	1.00159.82	A16S
ATOM	23944	C2 U	A1136	261.487	165.365	19.090	1.00159.82	A16S
ATOM	23945	O2 U	A1136	261.303	164.212	19.461	1.00159.82	A16S
ATOM	23946	N3 U	A1136	260.955	166.440	19.761	1.00159.82	A16S
ATOM	23947	C4 U	A1136	261.088	167.777	19.435	1.00159.82	A16S
ATOM	23948	O4 U	A1136	260.574	168.628	20.160	1.00159.82	A16S
ATOM	23949	C5 U	A1136	261.862	168.034	18.261	1.00159.82	A16S
ATOM	23950	C2* U	A1136	261.914	163.733	16.386	1.00196.16	A16S
ATOM	23951	O2* U	A1136	262.333	162.382	16.434	1.00196.16	A16S
ATOM	23952	C3* U	A1136	262.043	164.348	14.996	1.00196.16	A16S
ATOM	23953	O3* U	A1136	261.806	163.356	14.000	1.00196.16	A16S
ATOM	23954	P C	A1137	261.507	163.792	12.481	1.00197.98	A16S
ATOM	23955	O1P C	A1137	262.773	164.311	11.894	1.00163.72	A16S
ATOM	23956	O2P C	A1137	260.806	162.659	11.828	1.00163.72	A16S
ATOM	23957	O5* C	A1137	260.487	165.008	12.596	1.00197.98	A16S
ATOM	23958	C5* C	A1137	259.085	164.780	12.806	1.00197.98	A16S
ATOM	23959	C4* C	A1137	258.291	165.336	11.649	1.00197.98	A16S
ATOM	23960	O4* C	A1137	258.611	166.737	11.488	1.00197.98	A16S
ATOM	23961	C1* C	A1137	258.590	167.072	10.116	1.00197.98	A16S
ATOM	23962	N1 C	A1137	259.878	167.703	9.775	1.00163.72	A16S
ATOM	23963	C6 C	A1137	261.063	167.130	10.151	1.00163.72	A16S
ATOM	23964	C2 C	A1137	259.872	168.918	9.070	1.00163.72	A16S
ATOM	23965	O2 C	A1137	258.787	169.410	8.721	1.00163.72	A16S
ATOM	23966	N3 C	A1137	261.049	169.522	8.787	1.00163.72	A16S
ATOM	23967	C4 C	A1137	262.199	168.959	9.170	1.00163.72	A16S
ATOM	23968	N4 C	A1137	263.337	169.595	8.874	1.00163.72	A16S
ATOM	23969	C5 C	A1137	262.234	167.719	9.874	1.00163.72	A16S
ATOM	23970	C2* C	A1137	258.213	165.821	9.313	1.00197.98	A16S
ATOM	23971	O2* C	A1137	256.836	165.894	9.001	1.00197.98	A16S
ATOM	23972	C3* C	A1137	258.543	164.692	10.292	1.00197.98	A16S
ATOM	23973	O3* C	A1137	257.623	163.607	10.146	1.00197.98	A16S
ATOM	23974	P G	A1138	258.062	162.238	9.414	1.00155.69	A16S
ATOM	23975	O1P G	A1138	258.047	162.476	7.943	1.00171.44	A16S
ATOM	23976	O2P G	A1138	259.287	161.703	10.055	1.00171.44	A16S
ATOM	23977	O5* G	A1138	256.858	161.247	9.768	1.00155.69	A16S
ATOM	23978	C5* G	A1138	255.537	161.773	10.069	1.00155.69	A16S
ATOM	23979	C4* G	A1138	254.777	160.866	11.023	1.00155.69	A16S
ATOM	23980	O4* G	A1138	255.626	160.454	12.124	1.00155.69	A16S
ATOM	23981	C1* G	A1138	254.889	160.470	13.336	1.00155.69	A16S
ATOM	23982	N9 G	A1138	255.574	161.388	14.245	1.00171.44	A16S
ATOM	23983	C4 G	A1138	255.763	162.745	14.064	1.00171.44	A16S
ATOM	23984	N3 G	A1138	255.303	163.483	13.027	1.00171.44	A16S
ATOM	23985	C2 G	A1138	255.665	164.751	13.120	1.00171.44	A16S
ATOM	23986	N2 G	A1138	255.286	165.626	12.174	1.00171.44	A16S
ATOM	23987	N1 G	A1138	256.424	165.257	14.146	1.00171.44	A16S
ATOM	23988	C6 G	A1138	256.915	164.519	15.220	1.00171.44	A16S
ATOM	23989	O6 G	A1138	257.606	165.074	16.081	1.00171.44	A16S
ATOM	23990	C5 G	A1138	256.522	163.153	15.140	1.00171.44	A16S
ATOM	23991	N7 G	A1138	256.780	162.088	15.995	1.00171.44	A16S
ATOM	23992	C8 G	A1138	256.193	161.067	15.429	1.00171.44	A16S
ATOM	23993	C2* G	A1138	253.437	160.836	13.009	1.00155.69	A16S
ATOM	23994	O2* G	A1138	252.645	159.669	12.924	1.00155.69	A16S
ATOM	23995	C3* G	A1138	253.590	161.560	11.676	1.00155.69	A16S
ATOM	23996	O3* G	A1138	252.436	161.472	10.857	1.00155.69	A16S
ATOM	23997	P G	A1139	252.189	162.585	9.724	1.00123.17	A16S
ATOM	23998	O1P G	A1139	252.948	162.161	8.519	1.00141.89	A16S
ATOM	23999	O2P G	A1139	252.453	163.920	10.323	1.00141.89	A16S
ATOM	24000	O5* G	A1139	250.633	162.475	9.389	1.00123.17	A16S
ATOM	24001	C5* G	A1139	249.674	162.171	10.420	1.00123.17	A16S
ATOM	24002	C4* G	A1139	249.541	163.344	11.359	1.00123.17	A16S
ATOM	24003	O4* G	A1139	249.144	164.567	10.715	1.00123.17	A16S
ATOM	24004	C1* G	A1139	248.730	165.445	11.732	1.00123.17	A16S
ATOM	24005	N9 G	A1139	248.025	166.576	11.132	1.00141.89	A16S
ATOM	24006	C4 G	A1139	247.715	167.757	11.765	1.00141.89	A16S
ATOM	24007	N3 G	A1139	247.957	168.046	13.062	1.00141.89	A16S
ATOM	24008	C2 G	A1139	247.565	169.269	13.377	1.00141.89	A16S
ATOM	24009	N2 G	A1139	247.715	169.711	14.631	1.00141.89	A16S
ATOM	24010	N1 G	A1139	246.995	170.146	12.489	1.00141.89	A16S
ATOM	24011	C6 G	A1139	246.741	169.876	11.148	1.00141.89	A16S
ATOM	24012	O6 G	A1139	246.232	170.747	10.430	1.00141.89	A16S
ATOM	24013	C5 G	A1139	247.140	168.554	10.797	1.00141.89	A16S
ATOM	24014	N7 G	A1139	247.054	167.875	9.587	1.00141.89	A16S
ATOM	24015	C8 G	A1139	247.583	166.706	9.834	1.00141.89	A16S
ATOM	24016	C2* G	A1139	247.919	164.558	12.675	1.00123.17	A16S
ATOM	24017	O2* G	A1139	247.865	165.102	13.978	1.00123.17	A16S

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ATOM	24018	C3*	G	A1139	248.658	163.207	12.590	1.00123.17	A16S
ATOM	24019	O3*	G	A1139	249.548	162.977	13.668	1.00123.17	A16S
ATOM	24020	P	C	A1140	249.005	162.329	15.027	1.00197.98	A16S
ATOM	24021	O1P	C	A1140	249.241	160.860	14.973	1.00149.98	A16S
ATOM	24022	O2P	C	A1140	247.629	162.844	15.269	1.00149.98	A16S
ATOM	24023	O5*	C	A1140	249.978	162.959	16.119	1.00197.98	A16S
ATOM	24024	C5*	C	A1140	251.218	162.312	16.479	1.00197.98	A16S
ATOM	24025	C4*	C	A1140	252.201	163.317	17.050	1.00197.98	A16S
ATOM	24026	O4*	C	A1140	253.152	163.752	16.043	1.00197.98	A16S
ATOM	24027	C1*	C	A1140	253.597	165.065	16.354	1.00197.98	A16S
ATOM	24028	N1	C	A1140	253.391	165.957	15.192	1.00149.98	A16S
ATOM	24029	C6	C	A1140	252.424	165.701	14.258	1.00149.98	A16S
ATOM	24030	C2	C	A1140	254.212	167.095	15.063	1.00149.98	A16S
ATOM	24031	O2	C	A1140	255.088	167.311	15.918	1.00149.98	A16S
ATOM	24032	N3	C	A1140	254.030	167.927	14.013	1.00149.98	A16S
ATOM	24033	C4	C	A1140	253.081	167.668	13.112	1.00149.98	A16S
ATOM	24034	N4	C	A1140	252.939	168.524	12.093	1.00149.98	A16S
ATOM	24035	C5	C	A1140	252.236	166.521	13.213	1.00149.98	A16S
ATOM	24036	C2*	C	A1140	252.848	165.538	17.600	1.00197.98	A16S
ATOM	24037	O2*	C	A1140	253.666	165.377	18.742	1.00197.98	A16S
ATOM	24038	C3*	C	A1140	251.636	164.614	17.609	1.00197.98	A16S
ATOM	24039	O3*	C	A1140	251.091	164.483	18.911	1.00197.98	A16S
ATOM	24040	P	C	A1141	249.988	165.541	19.409	1.00171.54	A16S
ATOM	24041	O1P	C	A1141	249.606	165.142	20.789	1.00154.42	A16S
ATOM	24042	O2P	C	A1141	248.935	165.664	18.361	1.00154.42	A16S
ATOM	24043	O5*	C	A1141	250.785	166.922	19.465	1.00171.54	A16S
ATOM	24044	C5*	C	A1141	251.688	167.222	20.554	1.00171.54	A16S
ATOM	24045	C4*	C	A1141	251.935	168.713	20.641	1.00171.54	A16S
ATOM	24046	O4*	C	A1141	252.781	169.145	19.547	1.00171.54	A16S
ATOM	24047	C1*	C	A1141	252.395	170.446	19.130	1.00171.54	A16S
ATOM	24048	N1	C	A1141	252.042	170.396	17.700	1.00154.42	A16S
ATOM	24049	C6	C	A1141	251.438	169.292	17.164	1.00154.42	A16S
ATOM	24050	C2	C	A1141	252.338	171.502	16.890	1.00154.42	A16S
ATOM	24051	O2	C	A1141	252.878	172.499	17.397	1.00154.42	A16S
ATOM	24052	N3	C	A1141	252.029	171.456	15.576	1.00154.42	A16S
ATOM	24053	C4	C	A1141	251.449	170.369	15.063	1.00154.42	A16S
ATOM	24054	N4	C	A1141	251.175	170.365	13.756	1.00154.42	A16S
ATOM	24055	C5	C	A1141	251.128	169.236	15.864	1.00154.42	A16S
ATOM	24056	C2*	C	A1141	251.237	170.907	20.018	1.00171.54	A16S
ATOM	24057	O2*	C	A1141	251.716	171.748	21.047	1.00171.54	A16S
ATOM	24058	C3*	C	A1141	250.694	169.582	20.535	1.00171.54	A16S
ATOM	24059	O3*	C	A1141	250.044	169.726	21.783	1.00171.54	A16S
ATOM	24060	P	G	A1142	248.479	170.070	21.819	1.00121.19	A16S
ATOM	24061	O1P	G	A1142	248.051	169.954	23.237	1.00144.87	A16S
ATOM	24062	O2P	G	A1142	247.790	169.269	20.775	1.00144.87	A16S
ATOM	24063	O5*	G	A1142	248.414	171.604	21.395	1.00121.19	A16S
ATOM	24064	C5*	G	A1142	248.869	172.622	22.299	1.00121.19	A16S
ATOM	24065	C4*	G	A1142	248.844	173.972	21.631	1.00121.19	A16S
ATOM	24066	O4*	G	A1142	249.795	173.995	20.539	1.00121.19	A16S
ATOM	24067	C1*	G	A1142	249.319	174.851	19.516	1.00121.19	A16S
ATOM	24068	N9	G	A1142	249.272	174.101	18.263	1.00144.87	A16S
ATOM	24069	C4	G	A1142	248.992	174.608	17.011	1.00144.87	A16S
ATOM	24070	N3	G	A1142	248.714	175.897	16.716	1.00144.87	A16S
ATOM	24071	C2	G	A1142	248.467	176.067	15.426	1.00144.87	A16S
ATOM	24072	N2	G	A1142	248.163	177.282	14.955	1.00144.87	A16S
ATOM	24073	N1	G	A1142	248.494	175.059	14.502	1.00144.87	A16S
ATOM	24074	C6	G	A1142	248.777	173.728	14.779	1.00144.87	A16S
ATOM	24075	O6	G	A1142	248.771	172.897	13.864	1.00144.87	A16S
ATOM	24076	C5	G	A1142	249.046	173.526	16.161	1.00144.87	A16S
ATOM	24077	N7	G	A1142	249.367	172.367	16.856	1.00144.87	A16S
ATOM	24078	C8	G	A1142	249.492	172.755	18.094	1.00144.87	A16S
ATOM	24079	C2*	G	A1142	247.963	175.411	19.960	1.00121.19	A16S
ATOM	24080	O2*	G	A1142	248.140	176.710	20.492	1.00121.19	A16S
ATOM	24081	C3*	G	A1142	247.521	174.399	21.014	1.00121.19	A16S
ATOM	24082	O3*	G	A1142	246.673	174.999	21.997	1.00121.19	A16S
ATOM	24083	P	G	A1143	245.082	174.750	21.950	1.00105.95	A16S
ATOM	24084	O1P	G	A1143	244.476	175.520	23.066	1.00155.74	A16S
ATOM	24085	O2P	G	A1143	244.844	173.287	21.858	1.00155.74	A16S
ATOM	24086	O5*	G	A1143	244.621	175.425	20.581	1.00105.95	A16S
ATOM	24087	C5*	G	A1143	244.950	176.799	20.274	1.00105.95	A16S
ATOM	24088	C4*	G	A1143	244.908	177.027	18.776	1.00105.95	A16S
ATOM	24089	O4*	G	A1143	245.951	176.240	18.135	1.00105.95	A16S
ATOM	24090	C1*	G	A1143	245.474	175.707	16.905	1.00105.95	A16S
ATOM	24091	N9	G	A1143	245.460	174.244	17.015	1.00155.74	A16S
ATOM	24092	C4	G	A1143	245.219	173.334	16.000	1.00155.74	A16S
ATOM	24093	N3	G	A1143	244.967	173.631	14.705	1.00155.74	A16S
ATOM	24094	C2	G	A1143	244.774	172.542	13.976	1.00155.74	A16S

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ATOM	24095	N2	G	A1143	244.515	172.653	12.665	1.00155.74	A16S
ATOM	24096	N1	G	A1143	244.822	171.262	14.480	1.00155.74	A16S
ATOM	24097	C6	G	A1143	245.075	170.931	15.808	1.00155.74	A16S
ATOM	24098	O6	G	A1143	245.089	169.744	16.157	1.00155.74	A16S
ATOM	24099	C5	G	A1143	245.289	172.089	16.601	1.00155.74	A16S
ATOM	24100	N7	G	A1143	245.573	172.209	17.955	1.00155.74	A16S
ATOM	24101	C8	G	A1143	245.668	173.497	18.156	1.00155.74	A16S
ATOM	24102	C2*	G	A1143	244.081	176.297	16.661	1.00105.95	A16S
ATOM	24103	O2*	G	A1143	244.170	177.441	15.823	1.00105.95	A16S
ATOM	24104	C3*	G	A1143	243.622	176.592	18.087	1.00105.95	A16S
ATOM	24105	O3*	G	A1143	242.597	177.573	18.168	1.00105.95	A16S
ATOM	24106	P	G	A1144	241.060	177.109	18.288	1.00133.03	A16S
ATOM	24107	O1P	G	A1144	240.275	178.292	18.727	1.00159.74	A16S
ATOM	24108	O2P	G	A1144	240.992	175.846	19.079	1.00159.74	A16S
ATOM	24109	O5*	G	A1144	240.646	176.789	16.784	1.00133.03	A16S
ATOM	24110	C5*	G	A1144	240.600	177.834	15.786	1.00133.03	A16S
ATOM	24111	C4*	G	A1144	240.276	177.249	14.429	1.00133.03	A16S
ATOM	24112	O4*	G	A1144	241.375	176.406	13.997	1.00133.03	A16S
ATOM	24113	C1*	G	A1144	240.869	175.247	13.355	1.00133.03	A16S
ATOM	24114	N9	G	A1144	241.162	174.100	14.211	1.00159.74	A16S
ATOM	24115	C4	G	A1144	241.241	172.790	13.818	1.00159.74	A16S
ATOM	24116	N3	G	A1144	241.087	172.331	12.560	1.00159.74	A16S
ATOM	24117	C2	G	A1144	241.207	171.019	12.496	1.00159.74	A16S
ATOM	24118	N2	G	A1144	241.083	170.399	11.315	1.00159.74	A16S
ATOM	24119	N1	G	A1144	241.457	170.218	13.586	1.00159.74	A16S
ATOM	24120	C6	G	A1144	241.620	170.670	14.892	1.00159.74	A16S
ATOM	24121	O6	G	A1144	241.846	169.864	15.804	1.00159.74	A16S
ATOM	24122	C5	G	A1144	241.494	172.077	14.972	1.00159.74	A16S
ATOM	24123	N7	G	A1144	241.583	172.924	16.066	1.00159.74	A16S
ATOM	24124	C8	G	A1144	241.385	174.112	15.568	1.00159.74	A16S
ATOM	24125	C2*	G	A1144	239.359	175.425	13.216	1.00133.03	A16S
ATOM	24126	O2*	G	A1144	239.037	176.020	11.973	1.00133.03	A16S
ATOM	24127	C3*	G	A1144	239.063	176.332	14.397	1.00133.03	A16S
ATOM	24128	O3*	G	A1144	237.837	177.021	14.260	1.00133.03	A16S
ATOM	24129	P	C	A1145	236.533	176.458	15.010	1.00142.33	A16S
ATOM	24130	O1P	C	A1145	236.272	177.309	16.198	1.00120.42	A16S
ATOM	24131	O2P	C	A1145	236.690	174.991	15.191	1.00120.42	A16S
ATOM	24132	O5*	C	A1145	235.374	176.728	13.956	1.00142.33	A16S
ATOM	24133	C5*	C	A1145	234.411	175.715	13.650	1.00142.33	A16S
ATOM	24134	C4*	C	A1145	234.886	174.882	12.482	1.00142.33	A16S
ATOM	24135	O4*	C	A1145	236.067	174.125	12.844	1.00142.33	A16S
ATOM	24136	C1*	C	A1145	236.003	172.832	12.273	1.00142.33	A16S
ATOM	24137	N1	C	A1145	236.109	171.859	13.374	1.00120.42	A16S
ATOM	24138	C6	C	A1145	235.036	171.566	14.171	1.00120.42	A16S
ATOM	24139	C2	C	A1145	237.352	171.257	13.616	1.00120.42	A16S
ATOM	24140	O2	C	A1145	238.303	171.520	12.866	1.00120.42	A16S
ATOM	24141	N3	C	A1145	237.486	170.409	14.665	1.00120.42	A16S
ATOM	24142	C4	C	A1145	236.440	170.157	15.457	1.00120.42	A16S
ATOM	24143	N4	C	A1145	236.625	169.343	16.503	1.00120.42	A16S
ATOM	24144	C5	C	A1145	235.157	170.735	15.218	1.00120.42	A16S
ATOM	24145	C2*	C	A1145	234.744	172.755	11.408	1.00142.33	A16S
ATOM	24146	O2*	C	A1145	235.128	173.022	10.081	1.00142.33	A16S
ATOM	24147	C3*	C	A1145	233.876	173.855	12.020	1.00142.33	A16S
ATOM	24148	O3*	C	A1145	233.017	174.544	11.119	1.00142.33	A16S
ATOM	24149	P	A	A1146	232.153	173.737	10.046	1.00132.18	A16S
ATOM	24150	O1P	A	A1146	231.072	174.675	9.631	1.00 89.37	A16S
ATOM	24151	O2P	A	A1146	231.797	172.401	10.622	1.00 89.37	A16S
ATOM	24152	O5*	A	A1146	233.163	173.569	8.819	1.00132.18	A16S
ATOM	24153	C5*	A	A1146	233.446	174.691	7.951	1.00132.18	A16S
ATOM	24154	C4*	A	A1146	234.389	174.303	6.827	1.00132.18	A16S
ATOM	24155	O4*	A	A1146	235.777	174.417	7.228	1.00132.18	A16S
ATOM	24156	C1*	A	A1146	236.570	173.572	6.410	1.00132.18	A16S
ATOM	24157	N9	A	A1146	237.377	172.687	7.251	1.00 89.37	A16S
ATOM	24158	C4	A	A1146	238.321	171.805	6.778	1.00 89.37	A16S
ATOM	24159	N3	A	A1146	238.672	171.600	5.493	1.00 89.37	A16S
ATOM	24160	C2	A	A1146	239.625	170.675	5.411	1.00 89.37	A16S
ATOM	24161	N1	A	A1146	240.225	169.979	6.395	1.00 89.37	A16S
ATOM	24162	C6	A	A1146	239.846	170.204	7.675	1.00 89.37	A16S
ATOM	24163	N6	A	A1146	240.434	169.503	8.648	1.00 89.37	A16S
ATOM	24164	C5	A	A1146	238.843	171.171	7.897	1.00 89.37	A16S
ATOM	24165	N7	A	A1146	238.240	171.645	9.055	1.00 89.37	A16S
ATOM	24166	C8	A	A1146	237.381	172.539	8.620	1.00 89.37	A16S
ATOM	24167	C2*	A	A1146	235.629	172.794	5.492	1.00132.18	A16S
ATOM	24168	O2*	A	A1146	235.610	173.411	4.220	1.00132.18	A16S
ATOM	24169	C3*	A	A1146	234.300	172.912	6.228	1.00132.18	A16S
ATOM	24170	O3*	A	A1146	233.215	172.750	5.336	1.00132.18	A16S
ATOM	24171	P	C	A1147	232.523	171.306	5.199	1.00116.57	A16S

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ATOM	24172	O1P	C	A1147	232.194	170.820	6.572	1.00	82.40	A16S
ATOM	24173	O2P	C	A1147	231.449	171.425	4.176	1.00	82.40	A16S
ATOM	24174	O5*	C	A1147	233.684	170.360	4.646	1.00116.57		A16S
ATOM	24175	C5*	C	A1147	234.230	170.536	3.319	1.00116.57		A16S
ATOM	24176	C4*	C	A1147	235.311	169.507	3.050	1.00116.57		A16S
ATOM	24177	O4*	C	A1147	236.444	169.738	3.926	1.00116.57		A16S
ATOM	24178	C1*	C	A1147	237.057	168.502	4.249	1.00116.57		A16S
ATOM	24179	N1	C	A1147	237.118	168.347	5.718	1.00	82.40	A16S
ATOM	24180	C6	C	A1147	236.243	168.999	6.543	1.00	82.40	A16S
ATOM	24181	C2	C	A1147	238.108	167.500	6.265	1.00	82.40	A16S
ATOM	24182	O2	C	A1147	238.894	166.916	5.500	1.00	82.40	A16S
ATOM	24183	N3	C	A1147	238.181	167.340	7.608	1.00	82.40	A16S
ATOM	24184	C4	C	A1147	237.323	167.982	8.400	1.00	82.40	A16S
ATOM	24185	N4	C	A1147	237.436	167.793	9.712	1.00	82.40	A16S
ATOM	24186	C5	C	A1147	236.308	168.848	7.877	1.00	82.40	A16S
ATOM	24187	C2*	C	A1147	236.279	167.384	3.553	1.00116.57		A16S
ATOM	24188	O2*	C	A1147	236.974	167.001	2.385	1.00116.57		A16S
ATOM	24189	C3*	C	A1147	234.931	168.052	3.291	1.00116.57		A16S
ATOM	24190	O3*	C	A1147	234.258	167.490	2.166	1.00116.57		A16S
ATOM	24191	P	U	A1148	233.212	166.286	2.379	1.00	87.77	A16S
ATOM	24192	O1P	U	A1148	232.217	166.690	3.407	1.00	99.54	A16S
ATOM	24193	O2P	U	A1148	232.747	165.875	1.028	1.00	99.54	A16S
ATOM	24194	O5*	U	A1148	234.099	165.116	2.996	1.00	87.77	A16S
ATOM	24195	C5*	U	A1148	234.985	164.360	2.162	1.00	87.77	A16S
ATOM	24196	C4*	U	A1148	235.636	163.252	2.951	1.00	87.77	A16S
ATOM	24197	O4*	U	A1148	236.566	163.807	3.914	1.00	87.77	A16S
ATOM	24198	C1*	U	A1148	236.663	162.932	5.027	1.00	87.77	A16S
ATOM	24199	N1	U	A1148	236.362	163.668	6.262	1.00	99.54	A16S
ATOM	24200	C6	U	A1148	235.590	164.807	6.261	1.00	99.54	A16S
ATOM	24201	C2	U	A1148	236.875	163.155	7.445	1.00	99.54	A16S
ATOM	24202	O2	U	A1148	237.566	162.151	7.492	1.00	99.54	A16S
ATOM	24203	N3	U	A1148	236.544	163.857	8.572	1.00	99.54	A16S
ATOM	24204	C4	U	A1148	235.768	164.991	8.643	1.00	99.54	A16S
ATOM	24205	O4	U	A1148	235.513	165.476	9.747	1.00	99.54	A16S
ATOM	24206	C5	U	A1148	235.282	165.466	7.379	1.00	99.54	A16S
ATOM	24207	C2*	U	A1148	235.680	161.779	4.815	1.00	87.77	A16S
ATOM	24208	O2*	U	A1148	236.360	160.621	4.361	1.00	87.77	A16S
ATOM	24209	C3*	U	A1148	234.723	162.365	3.786	1.00	87.77	A16S
ATOM	24210	O3*	U	A1148	234.111	161.330	3.035	1.00	87.77	A16S
ATOM	24211	P	C	A1149	232.677	160.769	3.484	1.00	71.72	A16S
ATOM	24212	O1P	C	A1149	232.384	159.599	2.612	1.00	93.04	A16S
ATOM	24213	O2P	C	A1149	231.737	161.920	3.513	1.00	93.04	A16S
ATOM	24214	O5*	C	A1149	232.892	160.258	4.980	1.00	71.72	A16S
ATOM	24215	C5*	C	A1149	233.802	159.186	5.263	1.00	71.72	A16S
ATOM	24216	C4*	C	A1149	234.126	159.149	6.737	1.00	71.72	A16S
ATOM	24217	O4*	C	A1149	234.660	160.436	7.141	1.00	71.72	A16S
ATOM	24218	C1*	C	A1149	234.236	160.743	8.459	1.00	71.72	A16S
ATOM	24219	N1	C	A1149	233.420	161.975	8.411	1.00	93.04	A16S
ATOM	24220	C6	C	A1149	233.093	162.556	7.214	1.00	93.04	A16S
ATOM	24221	C2	C	A1149	232.962	162.540	9.617	1.00	93.04	A16S
ATOM	24222	O2	C	A1149	233.289	162.014	10.694	1.00	93.04	A16S
ATOM	24223	N3	C	A1149	232.175	163.642	9.573	1.00	93.04	A16S
ATOM	24224	C4	C	A1149	231.844	164.181	8.396	1.00	93.04	A16S
ATOM	24225	N4	C	A1149	231.037	165.247	8.399	1.00	93.04	A16S
ATOM	24226	C5	C	A1149	232.316	163.647	7.161	1.00	93.04	A16S
ATOM	24227	C2*	C	A1149	233.449	159.536	8.977	1.00	71.72	A16S
ATOM	24228	O2*	C	A1149	234.320	158.671	9.678	1.00	71.72	A16S
ATOM	24229	C3*	C	A1149	232.958	158.906	7.681	1.00	71.72	A16S
ATOM	24230	O3*	C	A1149	232.713	157.514	7.850	1.00	71.72	A16S
ATOM	24231	P	U	A1150	231.211	156.988	8.079	1.00	79.56	A16S
ATOM	24232	O1P	U	A1150	231.220	155.527	7.816	1.00	73.27	A16S
ATOM	24233	O2P	U	A1150	230.266	157.873	7.340	1.00	73.27	A16S
ATOM	24234	O5*	U	A1150	230.953	157.194	9.630	1.00	79.56	A16S
ATOM	24235	C5*	U	A1150	231.797	156.583	10.613	1.00	79.56	A16S
ATOM	24236	C4*	U	A1150	231.519	157.208	11.950	1.00	79.56	A16S
ATOM	24237	O4*	U	A1150	231.855	158.617	11.865	1.00	79.56	A16S
ATOM	24238	C1*	U	A1150	230.886	159.386	12.551	1.00	79.56	A16S
ATOM	24239	N1	U	A1150	230.320	160.357	11.603	1.00	73.27	A16S
ATOM	24240	C6	U	A1150	230.178	160.056	10.269	1.00	73.27	A16S
ATOM	24241	C2	U	A1150	229.954	161.600	12.090	1.00	73.27	A16S
ATOM	24242	O2	U	A1150	230.023	161.895	13.268	1.00	73.27	A16S
ATOM	24243	N3	U	A1150	229.497	162.486	11.143	1.00	73.27	A16S
ATOM	24244	C4	U	A1150	229.355	162.260	9.791	1.00	73.27	A16S
ATOM	24245	O4	U	A1150	228.992	163.182	9.052	1.00	73.27	A16S
ATOM	24246	C5	U	A1150	229.720	160.940	9.371	1.00	73.27	A16S
ATOM	24247	C2*	U	A1150	229.883	158.425	13.193	1.00	79.56	A16S
ATOM	24248	O2*	U	A1150	230.264	158.211	14.537	1.00	79.56	A16S

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ATOM	24249	C3*	U	A1150	230.046	157.181	12.325	1.00	79.56	A16S
ATOM	24250	O3*	U	A1150	229.716	155.962	12.990	1.00	79.56	A16S
ATOM	24251	P	A	A1151	228.343	155.204	12.622	1.00	77.75	A16S
ATOM	24252	O1P	A	A1151	228.275	153.941	13.425	1.00	93.46	A16S
ATOM	24253	O2P	A	A1151	228.226	155.145	11.143	1.00	93.46	A16S
ATOM	24254	O5*	A	A1151	227.215	156.198	13.145	1.00	77.75	A16S
ATOM	24255	C5*	A	A1151	227.159	156.549	14.533	1.00	77.75	A16S
ATOM	24256	C4*	A	A1151	226.020	157.498	14.797	1.00	77.75	A16S
ATOM	24257	O4*	A	A1151	226.310	158.821	14.266	1.00	77.75	A16S
ATOM	24258	C1*	A	A1151	225.173	159.309	13.595	1.00	77.75	A16S
ATOM	24259	N9	A	A1151	225.597	160.223	12.536	1.00	93.46	A16S
ATOM	24260	C4	A	A1151	225.396	161.584	12.540	1.00	93.46	A16S
ATOM	24261	N3	A	A1151	224.808	162.321	13.502	1.00	93.46	A16S
ATOM	24262	C2	A	A1151	224.771	163.606	13.151	1.00	93.46	A16S
ATOM	24263	N1	A	A1151	225.218	164.194	12.032	1.00	93.46	A16S
ATOM	24264	C6	A	A1151	225.803	163.425	11.088	1.00	93.46	A16S
ATOM	24265	N6	A	A1151	226.244	164.009	9.972	1.00	93.46	A16S
ATOM	24266	C5	A	A1151	225.910	162.046	11.339	1.00	93.46	A16S
ATOM	24267	N7	A	A1151	226.441	160.999	10.599	1.00	93.46	A16S
ATOM	24268	C8	A	A1151	226.237	159.943	11.352	1.00	93.46	A16S
ATOM	24269	C2*	A	A1151	224.422	158.074	13.109	1.00	77.75	A16S
ATOM	24270	O2*	A	A1151	223.067	158.402	12.897	1.00	77.75	A16S
ATOM	24271	C3*	A	A1151	224.645	157.104	14.270	1.00	77.75	A16S
ATOM	24272	O3*	A	A1151	223.697	157.337	15.298	1.00	77.75	A16S
ATOM	24273	P	A	A1152	222.237	156.686	15.196	1.00	73.76	A16S
ATOM	24274	O1P	A	A1152	221.899	156.237	16.573	1.00	95.31	A16S
ATOM	24275	O2P	A	A1152	222.228	155.699	14.084	1.00	95.31	A16S
ATOM	24276	O5*	A	A1152	221.308	157.921	14.776	1.00	73.76	A16S
ATOM	24277	C5*	A	A1152	220.458	158.553	15.748	1.00	73.76	A16S
ATOM	24278	C4*	A	A1152	220.004	159.925	15.290	1.00	73.76	A16S
ATOM	24279	O4*	A	A1152	221.138	160.690	14.812	1.00	73.76	A16S
ATOM	24280	C1*	A	A1152	220.650	161.799	14.086	1.00	73.76	A16S
ATOM	24281	N9	A	A1152	221.454	162.014	12.892	1.00	95.31	A16S
ATOM	24282	C4	A	A1152	221.524	163.209	12.222	1.00	95.31	A16S
ATOM	24283	N3	A	A1152	220.908	164.358	12.546	1.00	95.31	A16S
ATOM	24284	C2	A	A1152	221.200	165.309	11.666	1.00	95.31	A16S
ATOM	24285	N1	A	A1152	221.975	165.248	10.579	1.00	95.31	A16S
ATOM	24286	C6	A	A1152	222.575	164.077	10.281	1.00	95.31	A16S
ATOM	24287	N6	A	A1152	223.340	164.015	9.193	1.00	95.31	A16S
ATOM	24288	C5	A	A1152	222.349	162.987	11.142	1.00	95.31	A16S
ATOM	24289	N7	A	A1152	222.801	161.675	11.133	1.00	95.31	A16S
ATOM	24290	C8	A	A1152	222.245	161.143	12.194	1.00	95.31	A16S
ATOM	24291	C2*	A	A1152	219.183	161.535	13.746	1.00	73.76	A16S
ATOM	24292	O2*	A	A1152	218.395	162.412	14.521	1.00	73.76	A16S
ATOM	24293	C3*	A	A1152	219.009	160.067	14.142	1.00	73.76	A16S
ATOM	24294	O3*	A	A1152	217.653	159.848	14.549	1.00	73.76	A16S
ATOM	24295	P	C	A1153	216.485	159.706	13.435	1.00	86.11	A16S
ATOM	24296	O1P	C	A1153	215.236	159.374	14.171	1.00	113.60	A16S
ATOM	24297	O2P	C	A1153	216.954	158.807	12.349	1.00	113.60	A16S
ATOM	24298	O5*	C	A1153	216.331	161.172	12.812	1.00	86.11	A16S
ATOM	24299	C5*	C	A1153	215.747	162.253	13.578	1.00	86.11	A16S
ATOM	24300	C4*	C	A1153	215.789	163.548	12.795	1.00	86.11	A16S
ATOM	24301	O4*	C	A1153	217.162	163.919	12.505	1.00	86.11	A16S
ATOM	24302	C1*	C	A1153	217.218	164.601	11.259	1.00	86.11	A16S
ATOM	24303	N1	C	A1153	218.205	163.945	10.383	1.00	113.60	A16S
ATOM	24304	C6	C	A1153	218.454	162.604	10.476	1.00	113.60	A16S
ATOM	24305	C2	C	A1153	218.891	164.727	9.437	1.00	113.60	A16S
ATOM	24306	O2	C	A1153	218.647	165.941	9.364	1.00	113.60	A16S
ATOM	24307	N3	C	A1153	219.799	164.143	8.629	1.00	113.60	A16S
ATOM	24308	C4	C	A1153	220.039	162.837	8.735	1.00	113.60	A16S
ATOM	24309	N4	C	A1153	220.958	162.310	7.929	1.00	113.60	A16S
ATOM	24310	C5	C	A1153	219.353	162.015	9.679	1.00	113.60	A16S
ATOM	24311	C2*	C	A1153	215.813	164.623	10.656	1.00	86.11	A16S
ATOM	24312	O2*	C	A1153	215.229	165.901	10.807	1.00	86.11	A16S
ATOM	24313	C3*	C	A1153	215.113	163.514	11.437	1.00	86.11	A16S
ATOM	24314	O3*	C	A1153	213.721	163.756	11.547	1.00	86.11	A16S
ATOM	24315	P	G	A1154	212.739	163.250	10.380	1.00	100.69	A16S
ATOM	24316	O1P	G	A1154	211.358	163.618	10.804	1.00	114.93	A16S
ATOM	24317	O2P	G	A1154	213.068	161.823	10.107	1.00	114.93	A16S
ATOM	24318	O5*	G	A1154	213.159	164.118	9.101	1.00	100.69	A16S
ATOM	24319	C5*	G	A1154	212.742	165.488	8.984	1.00	100.69	A16S
ATOM	24320	C4*	G	A1154	213.508	166.210	7.898	1.00	100.69	A16S
ATOM	24321	O4*	G	A1154	214.934	166.074	8.121	1.00	100.69	A16S
ATOM	24322	C1*	G	A1154	215.615	166.299	6.898	1.00	100.69	A16S
ATOM	24323	N9	G	A1154	216.568	165.220	6.641	1.00	114.93	A16S
ATOM	24324	C4	G	A1154	217.554	165.253	5.682	1.00	114.93	A16S
ATOM	24325	N3	G	A1154	217.835	166.299	4.874	1.00	114.93	A16S

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ATOM	24326	C2	G	A1154	218.799	166.019	4.019	1.00114.93	A16S
ATOM	24327	N2	G	A1154	219.202	166.950	3.146	1.00114.93	A16S
ATOM	24328	N1	G	A1154	219.435	164.806	3.955	1.00114.93	A16S
ATOM	24329	C6	G	A1154	219.162	163.713	4.771	1.00114.93	A16S
ATOM	24330	O6	G	A1154	219.784	162.658	4.608	1.00114.93	A16S
ATOM	24331	C5	G	A1154	218.134	164.005	5.710	1.00114.93	A16S
ATOM	24332	N7	G	A1154	217.562	163.217	6.702	1.00114.93	A16S
ATOM	24333	C8	G	A1154	216.645	163.981	7.234	1.00114.93	A16S
ATOM	24334	C2*	G	A1154	214.567	166.386	5.785	1.00100.69	A16S
ATOM	24335	O2*	G	A1154	214.387	167.738	5.419	1.00100.69	A16S
ATOM	24336	C3*	G	A1154	213.335	165.778	6.449	1.00100.69	A16S
ATOM	24337	O3*	G	A1154	212.154	166.308	5.851	1.00100.69	A16S
ATOM	24338	P	G	A1155	211.550	165.621	4.518	1.00 87.60	A16S
ATOM	24339	O1P	G	A1155	210.151	166.108	4.336	1.00 97.66	A16S
ATOM	24340	O2P	G	A1155	211.811	164.158	4.610	1.00 97.66	A16S
ATOM	24341	O5*	G	A1155	212.415	166.225	3.322	1.00 87.60	A16S
ATOM	24342	C5*	G	A1155	212.384	167.631	3.054	1.00 87.60	A16S
ATOM	24343	C4*	G	A1155	213.491	168.020	2.109	1.00 87.60	A16S
ATOM	24344	O4*	G	A1155	214.769	167.594	2.639	1.00 87.60	A16S
ATOM	24345	C1*	G	A1155	215.652	167.310	1.568	1.00 87.60	A16S
ATOM	24346	N9	G	A1155	216.196	165.965	1.743	1.00 97.66	A16S
ATOM	24347	C4	G	A1155	216.991	165.289	0.847	1.00 97.66	A16S
ATOM	24348	N3	G	A1155	217.382	165.742	-0.364	1.00 97.66	A16S
ATOM	24349	C2	G	A1155	218.149	164.870	-0.991	1.00 97.66	A16S
ATOM	24350	N2	G	A1155	218.630	165.166	-2.201	1.00 97.66	A16S
ATOM	24351	N1	G	A1155	218.503	163.647	-0.474	1.00 97.66	A16S
ATOM	24352	C6	G	A1155	218.112	163.158	0.770	1.00 97.66	A16S
ATOM	24353	O6	G	A1155	218.492	162.041	1.146	1.00 97.66	A16S
ATOM	24354	C5	G	A1155	217.286	164.086	1.455	1.00 97.66	A16S
ATOM	24355	N7	G	A1155	216.680	164.001	2.702	1.00 97.66	A16S
ATOM	24356	C8	G	A1155	216.040	165.132	2.827	1.00 97.66	A16S
ATOM	24357	C2*	G	A1155	214.887	167.509	0.257	1.00 87.60	A16S
ATOM	24358	O2*	G	A1155	215.201	168.778	-0.283	1.00 87.60	A16S
ATOM	24359	C3*	G	A1155	213.440	167.418	0.720	1.00 87.60	A16S
ATOM	24360	O3*	G	A1155	212.592	168.179	-0.117	1.00 87.60	A16S
ATOM	24361	P	G	A1156	211.513	167.426	-1.028	1.00 97.72	A16S
ATOM	24362	O1P	G	A1156	210.707	168.446	-1.754	1.00 81.68	A16S
ATOM	24363	O2P	G	A1156	210.833	166.433	-0.138	1.00 81.68	A16S
ATOM	24364	O5*	G	A1156	212.400	166.642	-2.098	1.00 97.72	A16S
ATOM	24365	C5*	G	A1156	213.213	167.357	-3.058	1.00 97.72	A16S
ATOM	24366	C4*	G	A1156	213.994	166.387	-3.917	1.00 97.72	A16S
ATOM	24367	O4*	G	A1156	215.104	165.814	-3.176	1.00 97.72	A16S
ATOM	24368	C1*	G	A1156	215.272	164.455	-3.538	1.00 97.72	A16S
ATOM	24369	N9	G	A1156	215.051	163.655	-2.338	1.00 81.68	A16S
ATOM	24370	C4	G	A1156	215.742	162.534	-1.932	1.00 81.68	A16S
ATOM	24371	N3	G	A1156	216.755	161.937	-2.594	1.00 81.68	A16S
ATOM	24372	C2	G	A1156	217.232	160.891	-1.929	1.00 81.68	A16S
ATOM	24373	N2	G	A1156	218.260	160.179	-2.436	1.00 81.68	A16S
ATOM	24374	N1	G	A1156	216.742	160.465	-0.717	1.00 81.68	A16S
ATOM	24375	C6	G	A1156	215.698	161.066	-0.022	1.00 81.68	A16S
ATOM	24376	O6	G	A1156	215.338	160.611	1.073	1.00 81.68	A16S
ATOM	24377	C5	G	A1156	215.185	162.183	-0.720	1.00 81.68	A16S
ATOM	24378	N7	G	A1156	214.158	163.047	-0.382	1.00 81.68	A16S
ATOM	24379	C8	G	A1156	214.110	163.896	-1.370	1.00 81.68	A16S
ATOM	24380	C2*	G	A1156	214.277	164.154	-4.662	1.00 97.72	A16S
ATOM	24381	O2*	G	A1156	214.919	164.343	-5.907	1.00 97.72	A16S
ATOM	24382	C3*	G	A1156	213.197	165.198	-4.409	1.00 97.72	A16S
ATOM	24383	O3*	G	A1156	212.450	165.543	-5.566	1.00 97.72	A16S
ATOM	24384	P	A	A1157	210.881	165.203	-5.621	1.00100.94	A16S
ATOM	24385	O1P	A	A1157	210.206	166.313	-6.342	1.00101.76	A16S
ATOM	24386	O2P	A	A1157	210.433	164.830	-4.254	1.00101.76	A16S
ATOM	24387	O5*	A	A1157	210.812	163.899	-6.528	1.00100.94	A16S
ATOM	24388	C5*	A	A1157	209.615	163.102	-6.611	1.00100.94	A16S
ATOM	24389	C4*	A	A1157	209.973	161.701	-7.034	1.00100.94	A16S
ATOM	24390	O4*	A	A1157	210.723	161.789	-8.270	1.00100.94	A16S
ATOM	24391	C1*	A	A1157	212.006	161.229	-8.094	1.00100.94	A16S
ATOM	24392	N9	A	A1157	212.953	162.001	-8.901	1.00101.76	A16S
ATOM	24393	C4	A	A1157	214.037	161.493	-9.570	1.00101.76	A16S
ATOM	24394	N3	A	A1157	214.450	160.214	-9.600	1.00101.76	A16S
ATOM	24395	C2	A	A1157	215.530	160.091	-10.363	1.00101.76	A16S
ATOM	24396	N1	A	A1157	216.197	161.029	-11.047	1.00101.76	A16S
ATOM	24397	C6	A	A1157	215.754	162.303	-10.994	1.00101.76	A16S
ATOM	24398	N6	A	A1157	216.420	163.240	-11.670	1.00101.76	A16S
ATOM	24399	C5	A	A1157	214.614	162.565	-10.222	1.00101.76	A16S
ATOM	24400	N7	A	A1157	213.913	163.732	-9.963	1.00101.76	A16S
ATOM	24401	C8	A	A1157	212.943	163.347	-9.173	1.00101.76	A16S
ATOM	24402	C2*	A	A1157	212.265	161.208	-6.588	1.00100.94	A16S

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ATOM	24403	O2*	A	A1157	213.198	160.205	-6.240	1.00100.94	A16S
ATOM	24404	C3*	A	A1157	210.860	160.946	-6.046	1.00100.94	A16S
ATOM	24405	O3*	A	A1157	210.594	159.541	-6.141	1.00100.94	A16S
ATOM	24406	P	C	A1158	209.142	158.959	-5.756	1.00 86.47	A16S
ATOM	24407	O1P	C	A1158	208.771	159.512	-4.421	1.00 93.75	A16S
ATOM	24408	O2P	C	A1158	209.177	157.481	-5.958	1.00 93.75	A16S
ATOM	24409	O5*	C	A1158	208.164	159.577	-6.856	1.00 86.47	A16S
ATOM	24410	C5*	C	A1158	206.742	159.586	-6.641	1.00 86.47	A16S
ATOM	24411	C4*	C	A1158	206.039	160.411	-7.696	1.00 86.47	A16S
ATOM	24412	O4*	C	A1158	206.628	161.725	-7.759	1.00 86.47	A16S
ATOM	24413	C1*	C	A1158	206.312	162.302	-9.004	1.00 86.47	A16S
ATOM	24414	N1	C	A1158	207.442	163.132	-9.447	1.00 93.75	A16S
ATOM	24415	C6	C	A1158	207.328	164.494	-9.446	1.00 93.75	A16S
ATOM	24416	C2	C	A1158	208.630	162.526	-9.860	1.00 93.75	A16S
ATOM	24417	O2	C	A1158	208.710	161.292	-9.854	1.00 93.75	A16S
ATOM	24418	N3	C	A1158	209.666	163.300	-10.251	1.00 93.75	A16S
ATOM	24419	C4	C	A1158	209.546	164.629	-10.242	1.00 93.75	A16S
ATOM	24420	N4	C	A1158	210.595	165.355	-10.638	1.00 93.75	A16S
ATOM	24421	C5	C	A1158	208.346	165.273	-9.828	1.00 93.75	A16S
ATOM	24422	C2*	C	A1158	205.826	161.196	-9.950	1.00 86.47	A16S
ATOM	24423	O2*	C	A1158	204.469	161.444	-10.242	1.00 86.47	A16S
ATOM	24424	C3*	C	A1158	206.080	159.916	-9.135	1.00 86.47	A16S
ATOM	24425	O3*	C	A1158	205.027	158.954	-9.313	1.00 86.47	A16S
ATOM	24426	P	U	A1159	205.187	157.745	-10.366	1.00103.76	A16S
ATOM	24427	O1P	U	A1159	204.193	156.721	-9.967	1.00111.51	A16S
ATOM	24428	O2P	U	A1159	206.621	157.362	-10.486	1.00111.51	A16S
ATOM	24429	O5*	U	A1159	204.697	158.373	-11.747	1.00103.76	A16S
ATOM	24430	C5*	U	A1159	205.447	158.173	-12.949	1.00103.76	A16S
ATOM	24431	C4*	U	A1159	205.739	159.500	-13.597	1.00103.76	A16S
ATOM	24432	O4*	U	A1159	206.874	159.343	-14.485	1.00103.76	A16S
ATOM	24433	C1*	U	A1159	206.529	159.785	-15.783	1.00103.76	A16S
ATOM	24434	N1	U	A1159	207.213	158.921	-16.764	1.00111.51	A16S
ATOM	24435	C6	U	A1159	207.463	157.588	-16.504	1.00111.51	A16S
ATOM	24436	C2	U	A1159	207.623	159.492	-17.955	1.00111.51	A16S
ATOM	24437	O2	U	A1159	207.393	160.654	-18.246	1.00111.51	A16S
ATOM	24438	N3	U	A1159	208.310	158.650	-18.799	1.00111.51	A16S
ATOM	24439	C4	U	A1159	208.612	157.320	-18.588	1.00111.51	A16S
ATOM	24440	O4	U	A1159	209.299	156.713	-19.414	1.00111.51	A16S
ATOM	24441	C5	U	A1159	208.127	156.792	-17.354	1.00111.51	A16S
ATOM	24442	C2*	U	A1159	204.998	159.787	-15.853	1.00103.76	A16S
ATOM	24443	O2*	U	A1159	204.551	160.721	-16.818	1.00103.76	A16S
ATOM	24444	C3*	U	A1159	204.605	160.134	-14.407	1.00103.76	A16S
ATOM	24445	O3*	U	A1159	204.615	161.562	-14.210	1.00103.76	A16S
ATOM	24446	P	G	A1160	203.411	162.302	-13.412	1.00 93.20	A16S
ATOM	24447	O1P	G	A1160	203.055	161.482	-12.225	1.00 99.61	A16S
ATOM	24448	O2P	G	A1160	202.346	162.689	-14.384	1.00 99.61	A16S
ATOM	24449	O5*	G	A1160	204.112	163.643	-12.902	1.00 93.20	A16S
ATOM	24450	C5*	G	A1160	203.344	164.809	-12.538	1.00 93.20	A16S
ATOM	24451	C4*	G	A1160	204.211	166.057	-12.603	1.00 93.20	A16S
ATOM	24452	O4*	G	A1160	205.422	165.831	-11.833	1.00 93.20	A16S
ATOM	24453	C1*	G	A1160	206.516	166.494	-12.450	1.00 93.20	A16S
ATOM	24454	N9	G	A1160	207.499	165.494	-12.857	1.00 99.61	A16S
ATOM	24455	C4	G	A1160	208.712	165.748	-13.455	1.00 99.61	A16S
ATOM	24456	N3	G	A1160	209.213	166.966	-13.745	1.00 99.61	A16S
ATOM	24457	C2	G	A1160	210.291	166.884	-14.334	1.00 99.61	A16S
ATOM	24458	N2	G	A1160	211.040	167.998	-14.686	1.00 99.61	A16S
ATOM	24459	N1	G	A1160	211.020	165.704	-14.621	1.00 99.61	A16S
ATOM	24460	C6	G	A1160	210.518	164.442	-14.337	1.00 99.61	A16S
ATOM	24461	O6	G	A1160	211.153	163.445	-14.657	1.00 99.61	A16S
ATOM	24462	C5	G	A1160	209.266	164.512	-13.696	1.00 99.61	A16S
ATOM	24463	N7	G	A1160	208.433	163.499	-13.242	1.00 99.61	A16S
ATOM	24464	C8	G	A1160	207.400	164.127	-12.750	1.00 99.61	A16S
ATOM	24465	C2*	G	A1160	205.984	167.250	-13.666	1.00 93.20	A16S
ATOM	24466	O2*	G	A1160	205.760	168.605	-13.336	1.00 93.20	A16S
ATOM	24467	C3*	G	A1160	204.712	166.474	-13.982	1.00 93.20	A16S
ATOM	24468	O3*	G	A1160	203.783	167.296	-14.679	1.00 93.20	A16S
ATOM	24469	P	C	A1161	203.956	167.523	-16.262	1.00103.10	A16S
ATOM	24470	O1P	C	A1161	202.997	168.583	-16.675	1.00133.00	A16S
ATOM	24471	O2P	C	A1161	203.903	166.193	-16.921	1.00133.00	A16S
ATOM	24472	O5*	C	A1161	205.442	168.087	-16.412	1.00103.10	A16S
ATOM	24473	C5*	C	A1161	205.734	169.491	-16.235	1.00103.10	A16S
ATOM	24474	C4*	C	A1161	206.927	169.884	-17.073	1.00103.10	A16S
ATOM	24475	O4*	C	A1161	208.111	169.221	-16.564	1.00103.10	A16S
ATOM	24476	C1*	C	A1161	208.951	168.848	-17.646	1.00103.10	A16S
ATOM	24477	N1	C	A1161	209.184	167.387	-17.598	1.00133.00	A16S
ATOM	24478	C6	C	A1161	208.304	166.551	-16.966	1.00133.00	A16S
ATOM	24479	C2	C	A1161	210.336	166.864	-18.211	1.00133.00	A16S

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ATOM	24480	O2	C	A1161	211.111	167.635	-18.799	1.00133.00	A16S
ATOM	24481	N3	C	A1161	210.570	165.534	-18.151	1.00133.00	A16S
ATOM	24482	C4	C	A1161	209.708	164.732	-17.526	1.00133.00	A16S
ATOM	24483	N4	C	A1161	209.985	163.429	-17.490	1.00133.00	A16S
ATOM	24484	C5	C	A1161	208.525	165.231	-16.908	1.00133.00	A16S
ATOM	24485	C2*	C	A1161	208.304	169.332	-18.946	1.00103.10	A16S
ATOM	24486	O2*	C	A1161	208.891	170.554	-19.341	1.00103.10	A16S
ATOM	24487	C3*	C	A1161	206.842	169.471	-18.535	1.00103.10	A16S
ATOM	24488	O3*	C	A1161	206.147	170.439	-19.312	1.00103.10	A16S
ATOM	24489	P	C	A1162	205.365	169.982	-20.641	1.00 96.70	A16S
ATOM	24490	O1P	C	A1162	204.613	171.160	-21.147	1.00127.55	A16S
ATOM	24491	O2P	C	A1162	204.639	168.722	-20.336	1.00127.55	A16S
ATOM	24492	O5*	C	A1162	206.526	169.662	-21.681	1.00 96.70	A16S
ATOM	24493	C5*	C	A1162	207.374	170.712	-22.180	1.00 96.70	A16S
ATOM	24494	C4*	C	A1162	208.369	170.156	-23.168	1.00 96.70	A16S
ATOM	24495	O4*	C	A1162	209.354	169.342	-22.482	1.00 96.70	A16S
ATOM	24496	C1*	C	A1162	209.711	168.238	-23.299	1.00 96.70	A16S
ATOM	24497	N1	C	A1162	209.418	166.989	-22.560	1.00127.55	A16S
ATOM	24498	C6	C	A1162	208.807	167.022	-21.335	1.00127.55	A16S
ATOM	24499	C2	C	A1162	209.779	165.759	-23.134	1.00127.55	A16S
ATOM	24500	O2	C	A1162	210.327	165.749	-24.248	1.00127.55	A16S
ATOM	24501	N3	C	A1162	209.520	164.616	-22.460	1.00127.55	A16S
ATOM	24502	C4	C	A1162	208.928	164.664	-21.265	1.00127.55	A16S
ATOM	24503	N4	C	A1162	208.700	163.513	-20.633	1.00127.55	A16S
ATOM	24504	C5	C	A1162	208.545	165.896	-20.662	1.00127.55	A16S
ATOM	24505	C2*	C	A1162	208.949	168.362	-24.624	1.00 96.70	A16S
ATOM	24506	O2*	C	A1162	209.784	168.937	-25.608	1.00 96.70	A16S
ATOM	24507	C3*	C	A1162	207.773	169.247	-24.228	1.00 96.70	A16S
ATOM	24508	O3*	C	A1162	207.243	170.000	-25.312	1.00 96.70	A16S
ATOM	24509	P	C	A1163	205.838	169.573	-25.963	1.00105.89	A16S
ATOM	24510	O1P	C	A1163	205.274	170.770	-26.639	1.00120.58	A16S
ATOM	24511	O2P	C	A1163	205.037	168.873	-24.922	1.00120.58	A16S
ATOM	24512	O5*	C	A1163	206.252	168.523	-27.083	1.00105.89	A16S
ATOM	24513	C5*	C	A1163	207.095	168.927	-28.171	1.00105.89	A16S
ATOM	24514	C4*	C	A1163	207.599	167.725	-28.927	1.00105.89	A16S
ATOM	24515	O4*	C	A1163	208.568	166.993	-28.134	1.00105.89	A16S
ATOM	24516	C1*	C	A1163	208.491	165.612	-28.451	1.00105.89	A16S
ATOM	24517	N1	C	A1163	208.204	164.848	-27.222	1.00120.58	A16S
ATOM	24518	C6	C	A1163	207.617	165.448	-26.141	1.00120.58	A16S
ATOM	24519	C2	C	A1163	208.532	163.479	-27.179	1.00120.58	A16S
ATOM	24520	O2	C	A1163	209.082	162.952	-28.160	1.00120.58	A16S
ATOM	24521	N3	C	A1163	208.241	162.769	-26.068	1.00120.58	A16S
ATOM	24522	C4	C	A1163	207.660	163.366	-25.026	1.00120.58	A16S
ATOM	24523	N4	C	A1163	207.387	162.621	-23.955	1.00120.58	A16S
ATOM	24524	C5	C	A1163	207.330	164.751	-25.036	1.00120.58	A16S
ATOM	24525	C2*	C	A1163	207.402	165.437	-29.513	1.00105.89	A16S
ATOM	24526	O2*	C	A1163	207.995	165.393	-30.796	1.00105.89	A16S
ATOM	24527	C3*	C	A1163	206.558	166.688	-29.304	1.00105.89	A16S
ATOM	24528	O3*	C	A1163	205.840	167.055	-30.473	1.00105.89	A16S
ATOM	24529	P	G	A1164	204.362	166.466	-30.711	1.00106.99	A16S
ATOM	24530	O1P	G	A1164	203.829	167.110	-31.943	1.00113.48	A16S
ATOM	24531	O2P	G	A1164	203.607	166.587	-29.429	1.00113.48	A16S
ATOM	24532	O5*	G	A1164	204.610	164.920	-31.022	1.00106.99	A16S
ATOM	24533	C5*	G	A1164	205.308	164.521	-32.216	1.00106.99	A16S
ATOM	24534	C4*	G	A1164	205.466	163.019	-32.277	1.00106.99	A16S
ATOM	24535	O4*	G	A1164	206.456	162.559	-31.321	1.00106.99	A16S
ATOM	24536	C1*	G	A1164	206.120	161.252	-30.877	1.00106.99	A16S
ATOM	24537	N9	G	A1164	205.821	161.308	-29.450	1.00113.48	A16S
ATOM	24538	C4	G	A1164	205.558	160.234	-28.638	1.00113.48	A16S
ATOM	24539	N3	G	A1164	205.597	158.936	-29.006	1.00113.48	A16S
ATOM	24540	C2	G	A1164	205.255	158.133	-28.015	1.00113.48	A16S
ATOM	24541	N2	G	A1164	205.250	156.810	-28.204	1.00113.48	A16S
ATOM	24542	N1	G	A1164	204.892	158.569	-26.764	1.00113.48	A16S
ATOM	24543	C6	G	A1164	204.842	159.903	-26.364	1.00113.48	A16S
ATOM	24544	O6	G	A1164	204.492	160.193	-25.211	1.00113.48	A16S
ATOM	24545	C5	G	A1164	205.222	160.774	-27.416	1.00113.48	A16S
ATOM	24546	N7	G	A1164	205.318	162.158	-27.446	1.00113.48	A16S
ATOM	24547	C8	G	A1164	205.686	162.429	-28.667	1.00113.48	A16S
ATOM	24548	C2*	G	A1164	204.854	160.833	-31.621	1.00106.99	A16S
ATOM	24549	O2*	G	A1164	205.179	160.074	-32.769	1.00106.99	A16S
ATOM	24550	C3*	G	A1164	204.244	162.185	-31.953	1.00106.99	A16S
ATOM	24551	O3*	G	A1164	203.313	162.111	-33.003	1.00106.99	A16S
ATOM	24552	P	C	A1165	201.752	162.035	-32.646	1.00112.92	A16S
ATOM	24553	O1P	C	A1165	201.015	162.219	-33.926	1.00 96.94	A16S
ATOM	24554	O2P	C	A1165	201.490	162.958	-31.501	1.00 96.94	A16S
ATOM	24555	O5*	C	A1165	201.553	160.533	-32.148	1.00112.92	A16S
ATOM	24556	C5*	C	A1165	201.873	159.433	-33.017	1.00112.92	A16S

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ATOM	24557	C4*	C	A1165	201.598	158.114	-32.337	1.00112.92	A16S
ATOM	24558	O4*	C	A1165	202.499	157.935	-31.214	1.00112.92	A16S
ATOM	24559	C1*	C	A1165	201.857	157.166	-30.210	1.00112.92	A16S
ATOM	24560	N1	C	A1165	201.768	157.962	-28.976	1.00 96.94	A16S
ATOM	24561	C6	C	A1165	201.569	159.315	-29.019	1.00 96.94	A16S
ATOM	24562	C2	C	A1165	201.870	157.303	-27.744	1.00 96.94	A16S
ATOM	24563	O2	C	A1165	202.050	156.072	-27.729	1.00 96.94	A16S
ATOM	24564	N3	C	A1165	201.764	158.017	-26.604	1.00 96.94	A16S
ATOM	24565	C4	C	A1165	201.562	159.333	-26.658	1.00 96.94	A16S
ATOM	24566	N4	C	A1165	201.460	159.992	-25.507	1.00 96.94	A16S
ATOM	24567	C5	C	A1165	201.456	160.030	-27.897	1.00 96.94	A16S
ATOM	24568	C2*	C	A1165	200.462	156.813	-30.719	1.00112.92	A16S
ATOM	24569	O2*	C	A1165	200.488	155.527	-31.303	1.00112.92	A16S
ATOM	24570	C3*	C	A1165	200.218	157.920	-31.734	1.00112.92	A16S
ATOM	24571	O3*	C	A1165	199.235	157.547	-32.683	1.00112.92	A16S
ATOM	24572	P	G	A1166	197.698	157.934	-32.414	1.00115.07	A16S
ATOM	24573	O1P	G	A1166	196.885	157.206	-33.420	1.00101.82	A16S
ATOM	24574	O2P	G	A1166	197.587	159.417	-32.310	1.00101.82	A16S
ATOM	24575	O5*	G	A1166	197.385	157.304	-30.983	1.00115.07	A16S
ATOM	24576	C5*	G	A1166	197.270	155.878	-30.821	1.00115.07	A16S
ATOM	24577	C4*	G	A1166	196.820	155.532	-29.420	1.00115.07	A16S
ATOM	24578	O4*	G	A1166	197.872	155.839	-28.464	1.00115.07	A16S
ATOM	24579	C1*	G	A1166	197.298	156.244	-27.231	1.00115.07	A16S
ATOM	24580	N9	G	A1166	197.655	157.639	-26.989	1.00101.82	A16S
ATOM	24581	C4	G	A1166	197.718	158.273	-25.770	1.00101.82	A16S
ATOM	24582	N3	G	A1166	197.539	157.698	-24.563	1.00101.82	A16S
ATOM	24583	C2	G	A1166	197.610	158.582	-23.578	1.00101.82	A16S
ATOM	24584	N2	G	A1166	197.468	158.187	-22.308	1.00101.82	A16S
ATOM	24585	N1	G	A1166	197.827	159.921	-23.761	1.00101.82	A16S
ATOM	24586	C6	G	A1166	198.011	160.539	-24.991	1.00101.82	A16S
ATOM	24587	O6	G	A1166	198.180	161.767	-25.044	1.00101.82	A16S
ATOM	24588	C5	G	A1166	197.958	159.599	-26.061	1.00101.82	A16S
ATOM	24589	N7	G	A1166	198.102	159.786	-27.429	1.00101.82	A16S
ATOM	24590	C8	G	A1166	197.927	158.597	-27.937	1.00101.82	A16S
ATOM	24591	C2*	G	A1166	195.781	156.125	-27.384	1.00115.07	A16S
ATOM	24592	O2*	G	A1166	195.352	154.858	-26.928	1.00115.07	A16S
ATOM	24593	C3*	G	A1166	195.613	156.280	-28.889	1.00115.07	A16S
ATOM	24594	O3*	G	A1166	194.370	155.779	-29.360	1.00115.07	A16S
ATOM	24595	P	A	A1167	193.182	156.817	-29.684	1.00101.18	A16S
ATOM	24596	O1P	A	A1167	191.930	156.050	-29.904	1.00 91.03	A16S
ATOM	24597	O2P	A	A1167	193.679	157.732	-30.746	1.00 91.03	A16S
ATOM	24598	O5*	A	A1167	193.034	157.646	-28.326	1.00101.18	A16S
ATOM	24599	C5*	A	A1167	191.978	158.617	-28.137	1.00101.18	A16S
ATOM	24600	C4*	A	A1167	191.225	158.327	-26.854	1.00101.18	A16S
ATOM	24601	O4*	A	A1167	190.503	157.081	-27.007	1.00101.18	A16S
ATOM	24602	C1*	A	A1167	190.522	156.362	-25.787	1.00101.18	A16S
ATOM	24603	N9	A	A1167	191.100	155.041	-26.045	1.00 91.03	A16S
ATOM	24604	C4	A	A1167	191.150	153.984	-25.169	1.00 91.03	A16S
ATOM	24605	N3	A	A1167	190.713	153.957	-23.899	1.00 91.03	A16S
ATOM	24606	C2	A	A1167	190.905	152.753	-23.366	1.00 91.03	A16S
ATOM	24607	N1	A	A1167	191.443	151.655	-23.917	1.00 91.03	A16S
ATOM	24608	C6	A	A1167	191.875	151.718	-25.193	1.00 91.03	A16S
ATOM	24609	N6	A	A1167	192.409	150.623	-25.740	1.00 91.03	A16S
ATOM	24610	C5	A	A1167	191.733	152.939	-25.869	1.00 91.03	A16S
ATOM	24611	N7	A	A1167	192.070	153.336	-27.153	1.00 91.03	A16S
ATOM	24612	C8	A	A1167	191.679	154.587	-27.207	1.00 91.03	A16S
ATOM	24613	C2*	A	A1167	191.263	157.201	-24.741	1.00101.18	A16S
ATOM	24614	O2*	A	A1167	190.339	157.866	-23.905	1.00101.18	A16S
ATOM	24615	C3*	A	A1167	192.089	158.142	-25.613	1.00101.18	A16S
ATOM	24616	O3*	A	A1167	192.329	159.388	-24.963	1.00101.18	A16S
ATOM	24617	P	A	A1168	193.814	159.754	-24.455	1.00 83.73	A16S
ATOM	24618	O1P	A	A1168	193.874	161.229	-24.244	1.00 86.73	A16S
ATOM	24619	O2P	A	A1168	194.766	159.118	-25.409	1.00 86.73	A16S
ATOM	24620	O5*	A	A1168	193.937	159.042	-23.026	1.00 83.73	A16S
ATOM	24621	C5*	A	A1168	193.143	159.484	-21.894	1.00 83.73	A16S
ATOM	24622	C4*	A	A1168	192.944	158.352	-20.906	1.00 83.73	A16S
ATOM	24623	O4*	A	A1168	192.304	157.237	-21.577	1.00 83.73	A16S
ATOM	24624	C1*	A	A1168	192.808	156.016	-21.070	1.00 83.73	A16S
ATOM	24625	N9	A	A1168	193.385	155.261	-22.184	1.00 86.73	A16S
ATOM	24626	C4	A	A1168	193.706	153.923	-22.213	1.00 86.73	A16S
ATOM	24627	N3	A	A1168	193.561	153.023	-21.227	1.00 86.73	A16S
ATOM	24628	C2	A	A1168	193.982	151.823	-21.622	1.00 86.73	A16S
ATOM	24629	N1	A	A1168	194.492	151.448	-22.801	1.00 86.73	A16S
ATOM	24630	C6	A	A1168	194.622	152.377	-23.769	1.00 86.73	A16S
ATOM	24631	N6	A	A1168	195.122	152.007	-24.949	1.00 86.73	A16S
ATOM	24632	C5	A	A1168	194.216	153.686	-23.476	1.00 86.73	A16S
ATOM	24633	N7	A	A1168	194.221	154.847	-24.229	1.00 86.73	A16S

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ATOM	24634	C8	A	A1168	193.720	155.747	-23.422	1.00	86.73	A16S
ATOM	24635	C2*	A	A1168	193.801	156.344	-19.951	1.00	83.73	A16S
ATOM	24636	O2*	A	A1168	193.143	156.231	-18.712	1.00	83.73	A16S
ATOM	24637	C3*	A	A1168	194.207	157.779	-20.279	1.00	83.73	A16S
ATOM	24638	O3*	A	A1168	194.520	158.508	-19.089	1.00	83.73	A16S
ATOM	24639	P	A	A1169	196.054	158.681	-18.614	1.00	68.60	A16S
ATOM	24640	O1P	A	A1169	196.053	159.578	-17.424	1.00	76.67	A16S
ATOM	24641	O2P	A	A1169	196.893	159.033	-19.796	1.00	76.67	A16S
ATOM	24642	O5*	A	A1169	196.492	157.238	-18.097	1.00	68.60	A16S
ATOM	24643	C5*	A	A1169	196.191	156.814	-16.756	1.00	68.60	A16S
ATOM	24644	C4*	A	A1169	196.310	155.318	-16.648	1.00	68.60	A16S
ATOM	24645	O4*	A	A1169	195.548	154.735	-17.733	1.00	68.60	A16S
ATOM	24646	C1*	A	A1169	196.235	153.619	-18.257	1.00	68.60	A16S
ATOM	24647	N9	A	A1169	196.606	153.943	-19.634	1.00	76.67	A16S
ATOM	24648	C4	A	A1169	196.950	153.067	-20.636	1.00	76.67	A16S
ATOM	24649	N3	A	A1169	197.039	151.731	-20.558	1.00	76.67	A16S
ATOM	24650	C2	A	A1169	197.388	151.216	-21.735	1.00	76.67	A16S
ATOM	24651	N1	A	A1169	197.633	151.838	-22.895	1.00	76.67	A16S
ATOM	24652	C6	A	A1169	197.527	153.182	-22.940	1.00	76.67	A16S
ATOM	24653	N6	A	A1169	197.747	153.803	-24.102	1.00	76.67	A16S
ATOM	24654	C5	A	A1169	197.178	153.847	-21.754	1.00	76.67	A16S
ATOM	24655	N7	A	A1169	196.998	155.188	-21.460	1.00	76.67	A16S
ATOM	24656	C8	A	A1169	196.667	155.191	-20.195	1.00	76.67	A16S
ATOM	24657	C2*	A	A1169	197.444	153.366	-17.357	1.00	68.60	A16S
ATOM	24658	O2*	A	A1169	197.081	152.462	-16.328	1.00	68.60	A16S
ATOM	24659	C3*	A	A1169	197.713	154.759	-16.814	1.00	68.60	A16S
ATOM	24660	O3*	A	A1169	198.405	154.701	-15.574	1.00	68.60	A16S
ATOM	24661	P	G	A1171	199.886	155.319	-15.456	1.00	85.93	A16S
ATOM	24662	O1P	G	A1171	200.451	154.815	-14.175	1.00	79.52	A16S
ATOM	24663	O2P	G	A1171	199.783	156.785	-15.684	1.00	79.52	A16S
ATOM	24664	O5*	G	A1171	200.695	154.680	-16.677	1.00	85.93	A16S
ATOM	24665	C5*	G	A1171	201.016	153.277	-16.690	1.00	85.93	A16S
ATOM	24666	C4*	G	A1171	201.090	152.751	-18.109	1.00	85.93	A16S
ATOM	24667	O4*	G	A1171	200.077	153.416	-18.910	1.00	85.93	A16S
ATOM	24668	C1*	G	A1171	200.517	153.513	-20.253	1.00	85.93	A16S
ATOM	24669	N9	G	A1171	200.533	154.916	-20.655	1.00	79.52	A16S
ATOM	24670	C4	G	A1171	200.704	155.375	-21.938	1.00	79.52	A16S
ATOM	24671	N3	G	A1171	200.904	154.607	-23.033	1.00	79.52	A16S
ATOM	24672	C2	G	A1171	201.025	155.334	-24.133	1.00	79.52	A16S
ATOM	24673	N2	G	A1171	201.240	154.728	-25.318	1.00	79.52	A16S
ATOM	24674	N1	G	A1171	200.945	156.707	-24.155	1.00	79.52	A16S
ATOM	24675	C6	G	A1171	200.733	157.516	-23.042	1.00	79.52	A16S
ATOM	24676	O6	G	A1171	200.663	158.739	-23.180	1.00	79.52	A16S
ATOM	24677	C5	G	A1171	200.617	156.748	-21.851	1.00	79.52	A16S
ATOM	24678	N7	G	A1171	200.415	157.148	-20.536	1.00	79.52	A16S
ATOM	24679	C8	G	A1171	200.376	156.030	-19.861	1.00	79.52	A16S
ATOM	24680	C2*	G	A1171	201.898	152.873	-20.341	1.00	85.93	A16S
ATOM	24681	O2*	G	A1171	201.746	151.547	-20.813	1.00	85.93	A16S
ATOM	24682	C3*	G	A1171	202.378	152.966	-18.894	1.00	85.93	A16S
ATOM	24683	O3*	G	A1171	203.381	151.983	-18.609	1.00	85.93	A16S
ATOM	24684	P	C	A1172	204.926	152.290	-18.970	1.00	88.41	A16S
ATOM	24685	O1P	C	A1172	205.756	151.174	-18.450	1.00	92.95	A16S
ATOM	24686	O2P	C	A1172	205.239	153.685	-18.557	1.00	92.95	A16S
ATOM	24687	O5*	C	A1172	204.967	152.242	-20.564	1.00	88.41	A16S
ATOM	24688	C5*	C	A1172	204.839	150.995	-21.271	1.00	88.41	A16S
ATOM	24689	C4*	C	A1172	205.257	151.165	-22.712	1.00	88.41	A16S
ATOM	24690	O4*	C	A1172	204.263	151.936	-23.432	1.00	88.41	A16S
ATOM	24691	C1*	C	A1172	204.905	152.767	-24.387	1.00	88.41	A16S
ATOM	24692	N1	C	A1172	204.614	154.171	-24.061	1.00	92.95	A16S
ATOM	24693	C6	C	A1172	204.342	154.557	-22.775	1.00	92.95	A16S
ATOM	24694	C2	C	A1172	204.626	155.118	-25.097	1.00	92.95	A16S
ATOM	24695	O2	C	A1172	204.884	154.742	-26.256	1.00	92.95	A16S
ATOM	24696	N3	C	A1172	204.361	156.415	-24.809	1.00	92.95	A16S
ATOM	24697	C4	C	A1172	204.095	156.778	-23.552	1.00	92.95	A16S
ATOM	24698	N4	C	A1172	203.837	158.065	-23.317	1.00	92.95	A16S
ATOM	24699	C5	C	A1172	204.081	155.837	-22.479	1.00	92.95	A16S
ATOM	24700	C2*	C	A1172	206.406	152.489	-24.328	1.00	88.41	A16S
ATOM	24701	O2*	C	A1172	206.777	151.592	-25.356	1.00	88.41	A16S
ATOM	24702	C3*	C	A1172	206.555	151.929	-22.918	1.00	88.41	A16S
ATOM	24703	O3*	C	A1172	207.700	151.108	-22.764	1.00	88.41	A16S
ATOM	24704	P	G	A1173	209.112	151.788	-22.426	1.00	85.98	A16S
ATOM	24705	O1P	G	A1173	210.086	150.687	-22.222	1.00	111.49	A16S
ATOM	24706	O2P	G	A1173	208.922	152.815	-21.357	1.00	111.49	A16S
ATOM	24707	O5*	G	A1173	209.480	152.534	-23.780	1.00	85.98	A16S
ATOM	24708	C5*	G	A1173	209.729	151.788	-24.978	1.00	85.98	A16S
ATOM	24709	C4*	G	A1173	210.094	152.722	-26.099	1.00	85.98	A16S
ATOM	24710	O4*	G	A1173	208.919	153.453	-26.524	1.00	85.98	A16S

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ATOM	24711	C1*	G	A1173	209.287	154.769	-26.902	1.00	85.98	A16S
ATOM	24712	N9	G	A1173	208.579	155.704	-26.034	1.00111.49		A16S
ATOM	24713	C4	G	A1173	208.405	157.053	-26.248	1.00111.49		A16S
ATOM	24714	N3	G	A1173	208.825	157.750	-27.327	1.00111.49		A16S
ATOM	24715	C2	G	A1173	208.528	159.037	-27.228	1.00111.49		A16S
ATOM	24716	N2	G	A1173	208.855	159.882	-28.218	1.00111.49		A16S
ATOM	24717	N1	G	A1173	207.884	159.592	-26.151	1.00111.49		A16S
ATOM	24718	C6	G	A1173	207.448	158.893	-25.030	1.00111.49		A16S
ATOM	24719	O6	G	A1173	206.886	159.496	-24.106	1.00111.49		A16S
ATOM	24720	C5	G	A1173	207.743	157.514	-25.130	1.00111.49		A16S
ATOM	24721	N7	G	A1173	207.477	156.476	-24.249	1.00111.49		A16S
ATOM	24722	C8	G	A1173	207.984	155.423	-24.828	1.00111.49		A16S
ATOM	24723	C2*	G	A1173	210.807	154.891	-26.754	1.00	85.98	A16S
ATOM	24724	O2*	G	A1173	211.434	154.668	-28.001	1.00	85.98	A16S
ATOM	24725	C3*	G	A1173	211.107	153.795	-25.741	1.00	85.98	A16S
ATOM	24726	O3*	G	A1173	212.444	153.320	-25.812	1.00	85.98	A16S
ATOM	24727	P	G	A1174	213.552	153.947	-24.840	1.00	99.71	A16S
ATOM	24728	O1P	G	A1174	214.784	153.153	-25.047	1.00112.40		A16S
ATOM	24729	O2P	G	A1174	212.989	154.080	-23.472	1.00112.40		A16S
ATOM	24730	O5*	G	A1174	213.773	155.408	-25.435	1.00	99.71	A16S
ATOM	24731	C5*	G	A1174	214.263	155.586	-26.780	1.00	99.71	A16S
ATOM	24732	C4*	G	A1174	214.196	157.043	-27.193	1.00	99.71	A16S
ATOM	24733	O4*	G	A1174	212.808	157.479	-27.225	1.00	99.71	A16S
ATOM	24734	C1*	G	A1174	212.732	158.857	-26.881	1.00	99.71	A16S
ATOM	24735	N9	G	A1174	211.926	159.011	-25.669	1.00112.40		A16S
ATOM	24736	C4	G	A1174	211.433	160.199	-25.179	1.00112.40		A16S
ATOM	24737	N3	G	A1174	211.588	161.414	-25.748	1.00112.40		A16S
ATOM	24738	C2	G	A1174	211.018	162.370	-25.036	1.00112.40		A16S
ATOM	24739	N2	G	A1174	211.085	163.641	-25.457	1.00112.40		A16S
ATOM	24740	N1	G	A1174	210.342	162.153	-23.859	1.00112.40		A16S
ATOM	24741	C6	G	A1174	210.167	160.911	-23.254	1.00112.40		A16S
ATOM	24742	O6	G	A1174	209.540	160.826	-22.189	1.00112.40		A16S
ATOM	24743	C5	G	A1174	210.781	159.871	-24.008	1.00112.40		A16S
ATOM	24744	N7	G	A1174	210.852	158.504	-23.769	1.00112.40		A16S
ATOM	24745	C8	G	A1174	211.534	158.034	-24.781	1.00112.40		A16S
ATOM	24746	C2*	G	A1174	214.158	159.357	-26.635	1.00	99.71	A16S
ATOM	24747	O2*	G	A1174	214.669	160.015	-27.784	1.00	99.71	A16S
ATOM	24748	C3*	G	A1174	214.882	158.061	-26.288	1.00	99.71	A16S
ATOM	24749	O3*	G	A1174	216.283	158.181	-26.485	1.00	99.71	A16S
ATOM	24750	P	G	A1175	217.192	158.802	-25.312	1.00120.23		A16S
ATOM	24751	O1P	G	A1175	218.602	158.706	-25.757	1.00126.50		A16S
ATOM	24752	O2P	G	A1175	216.787	158.184	-24.024	1.00126.50		A16S
ATOM	24753	O5*	G	A1175	216.778	160.342	-25.259	1.00120.23		A16S
ATOM	24754	C5*	G	A1175	217.095	161.234	-26.345	1.00120.23		A16S
ATOM	24755	C4*	G	A1175	216.588	162.632	-26.056	1.00120.23		A16S
ATOM	24756	O4*	G	A1175	215.139	162.610	-25.943	1.00120.23		A16S
ATOM	24757	C1*	G	A1175	214.714	163.567	-24.979	1.00120.23		A16S
ATOM	24758	N9	G	A1175	214.067	162.865	-23.871	1.00126.50		A16S
ATOM	24759	C4	G	A1175	213.377	163.444	-22.830	1.00126.50		A16S
ATOM	24760	N3	G	A1175	213.157	164.765	-22.660	1.00126.50		A16S
ATOM	24761	C2	G	A1175	212.477	165.014	-21.555	1.00126.50		A16S
ATOM	24762	N2	G	A1175	212.180	166.275	-21.224	1.00126.50		A16S
ATOM	24763	N1	G	A1175	212.041	164.044	-20.689	1.00126.50		A16S
ATOM	24764	C6	G	A1175	212.251	162.679	-20.846	1.00126.50		A16S
ATOM	24765	O6	G	A1175	211.808	161.886	-20.007	1.00126.50		A16S
ATOM	24766	C5	G	A1175	212.986	162.397	-22.022	1.00126.50		A16S
ATOM	24767	N7	G	A1175	213.410	161.184	-22.546	1.00126.50		A16S
ATOM	24768	C8	G	A1175	214.041	161.508	-23.642	1.00126.50		A16S
ATOM	24769	C2*	G	A1175	215.958	164.313	-24.497	1.00120.23		A16S
ATOM	24770	O2*	G	A1175	216.105	165.516	-25.232	1.00120.23		A16S
ATOM	24771	C3*	G	A1175	217.050	163.280	-24.758	1.00120.23		A16S
ATOM	24772	O3*	G	A1175	218.348	163.858	-24.834	1.00120.23		A16S
ATOM	24773	P	A	A1176	219.217	164.035	-23.488	1.00116.92		A16S
ATOM	24774	O1P	A	A1176	220.596	164.403	-23.892	1.00107.86		A16S
ATOM	24775	O2P	A	A1176	219.000	162.840	-22.623	1.00107.86		A16S
ATOM	24776	O5*	A	A1176	218.568	165.303	-22.772	1.00116.92		A16S
ATOM	24777	C5*	A	A1176	218.550	166.595	-23.419	1.00116.92		A16S
ATOM	24778	C4*	A	A1176	217.900	167.623	-22.522	1.00116.92		A16S
ATOM	24779	O4*	A	A1176	216.496	167.300	-22.342	1.00116.92		A16S
ATOM	24780	C1*	A	A1176	216.096	167.618	-21.015	1.00116.92		A16S
ATOM	24781	N9	A	A1176	215.573	166.401	-20.376	1.00107.86		A16S
ATOM	24782	C4	A	A1176	214.918	166.325	-19.166	1.00107.86		A16S
ATOM	24783	N3	A	A1176	214.642	167.332	-18.320	1.00107.86		A16S
ATOM	24784	C2	A	A1176	213.989	166.881	-17.251	1.00107.86		A16S
ATOM	24785	N1	A	A1176	213.606	165.635	-16.956	1.00107.86		A16S
ATOM	24786	C6	A	A1176	213.896	164.648	-17.828	1.00107.86		A16S
ATOM	24787	N6	A	A1176	213.502	163.409	-17.542	1.00107.86		A16S

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ATOM	24788	C5	A	A1176	214.593	164.990	-18.996	1.00107.86	A16S
ATOM	24789	N7	A	A1176	215.042	164.232	-20.067	1.00107.86	A16S
ATOM	24790	C8	A	A1176	215.617	165.110	-20.854	1.00107.86	A16S
ATOM	24791	C2*	A	A1176	217.300	168.240	-20.298	1.00116.92	A16S
ATOM	24792	O2*	A	A1176	217.220	169.653	-20.330	1.00116.92	A16S
ATOM	24793	C3*	A	A1176	218.464	167.690	-21.113	1.00116.92	A16S
ATOM	24794	O3*	A	A1176	219.618	168.514	-21.051	1.00116.92	A16S
ATOM	24795	P	G	A1177	220.929	167.984	-20.284	1.00 88.54	A16S
ATOM	24796	O1P	G	A1177	222.086	168.725	-20.852	1.00104.86	A16S
ATOM	24797	O2P	G	A1177	220.921	166.496	-20.335	1.00104.86	A16S
ATOM	24798	O5*	G	A1177	220.714	168.444	-18.766	1.00 88.54	A16S
ATOM	24799	C5*	G	A1177	220.494	169.836	-18.432	1.00 88.54	A16S
ATOM	24800	C4*	G	A1177	219.481	169.963	-17.314	1.00 88.54	A16S
ATOM	24801	O4*	G	A1177	218.260	169.283	-17.698	1.00 88.54	A16S
ATOM	24802	C1*	G	A1177	217.682	168.659	-16.563	1.00 88.54	A16S
ATOM	24803	N9	G	A1177	217.645	167.218	-16.795	1.00104.86	A16S
ATOM	24804	C4	G	A1177	217.007	166.289	-16.013	1.00104.86	A16S
ATOM	24805	N3	G	A1177	216.283	166.553	-14.908	1.00104.86	A16S
ATOM	24806	C2	G	A1177	215.814	165.455	-14.356	1.00104.86	A16S
ATOM	24807	N2	G	A1177	215.071	165.537	-13.244	1.00104.86	A16S
ATOM	24808	N1	G	A1177	216.038	164.194	-14.850	1.00104.86	A16S
ATOM	24809	C6	G	A1177	216.780	163.900	-15.987	1.00104.86	A16S
ATOM	24810	O6	G	A1177	216.927	162.726	-16.343	1.00104.86	A16S
ATOM	24811	C5	G	A1177	217.285	165.071	-16.590	1.00104.86	A16S
ATOM	24812	N7	G	A1177	218.066	165.230	-17.725	1.00104.86	A16S
ATOM	24813	C8	G	A1177	218.252	166.518	-17.810	1.00104.86	A16S
ATOM	24814	C2*	G	A1177	218.540	169.006	-15.345	1.00 88.54	A16S
ATOM	24815	O2*	G	A1177	217.974	170.098	-14.660	1.00 88.54	A16S
ATOM	24816	C3*	G	A1177	219.878	169.329	-15.992	1.00 88.54	A16S
ATOM	24817	O3*	G	A1177	220.620	170.233	-15.201	1.00 88.54	A16S
ATOM	24818	P	G	A1178	222.022	169.770	-14.588	1.00 92.38	A16S
ATOM	24819	O1P	G	A1178	222.633	170.918	-13.877	1.00 99.05	A16S
ATOM	24820	O2P	G	A1178	222.767	169.108	-15.696	1.00 99.05	A16S
ATOM	24821	O5*	G	A1178	221.626	168.681	-13.494	1.00 92.38	A16S
ATOM	24822	C5*	G	A1178	220.942	169.054	-12.281	1.00 92.38	A16S
ATOM	24823	C4*	G	A1178	220.486	167.817	-11.531	1.00 92.38	A16S
ATOM	24824	O4*	G	A1178	219.466	167.115	-12.297	1.00 92.38	A16S
ATOM	24825	C1*	G	A1178	219.593	165.712	-12.097	1.00 92.38	A16S
ATOM	24826	N9	G	A1178	219.849	165.074	-13.389	1.00 99.05	A16S
ATOM	24827	C4	G	A1178	219.584	163.765	-13.734	1.00 99.05	A16S
ATOM	24828	N3	G	A1178	218.993	162.839	-12.950	1.00 99.05	A16S
ATOM	24829	C2	G	A1178	218.891	161.666	-13.558	1.00 99.05	A16S
ATOM	24830	N2	G	A1178	218.313	160.633	-12.925	1.00 99.05	A16S
ATOM	24831	N1	G	A1178	219.344	161.419	-14.832	1.00 99.05	A16S
ATOM	24832	C6	G	A1178	219.960	162.352	-15.657	1.00 99.05	A16S
ATOM	24833	O6	G	A1178	220.345	162.018	-16.786	1.00 99.05	A16S
ATOM	24834	C5	G	A1178	220.061	163.623	-15.021	1.00 99.05	A16S
ATOM	24835	N7	G	A1178	220.583	164.819	-15.486	1.00 99.05	A16S
ATOM	24836	C8	G	A1178	220.431	165.650	-14.491	1.00 99.05	A16S
ATOM	24837	C2*	G	A1178	220.737	165.489	-11.100	1.00 92.38	A16S
ATOM	24838	O2*	G	A1178	220.225	165.366	-9.787	1.00 92.38	A16S
ATOM	24839	C3*	G	A1178	221.553	166.763	-11.270	1.00 92.38	A16S
ATOM	24840	O3*	G	A1178	222.331	167.052	-10.118	1.00 92.38	A16S
ATOM	24841	P	A	A1179	223.902	166.708	-10.122	1.00 83.02	A16S
ATOM	24842	O1P	A	A1179	224.551	167.345	-8.943	1.00 92.81	A16S
ATOM	24843	O2P	A	A1179	224.421	166.987	-11.490	1.00 92.81	A16S
ATOM	24844	O5*	A	A1179	223.966	165.134	-9.872	1.00 83.02	A16S
ATOM	24845	C5*	A	A1179	225.218	164.428	-10.001	1.00 83.02	A16S
ATOM	24846	C4*	A	A1179	225.080	162.993	-9.544	1.00 83.02	A16S
ATOM	24847	O4*	A	A1179	224.817	162.966	-8.117	1.00 83.02	A16S
ATOM	24848	C1*	A	A1179	223.954	161.886	-7.814	1.00 83.02	A16S
ATOM	24849	N9	A	A1179	222.703	162.443	-7.300	1.00 92.81	A16S
ATOM	24850	C4	A	A1179	221.734	161.761	-6.606	1.00 92.81	A16S
ATOM	24851	N3	A	A1179	221.758	160.474	-6.226	1.00 92.81	A16S
ATOM	24852	C2	A	A1179	220.642	160.159	-5.581	1.00 92.81	A16S
ATOM	24853	N1	A	A1179	219.581	160.923	-5.300	1.00 92.81	A16S
ATOM	24854	C6	A	A1179	219.586	162.208	-5.704	1.00 92.81	A16S
ATOM	24855	N6	A	A1179	218.520	162.963	-5.442	1.00 92.81	A16S
ATOM	24856	C5	A	A1179	220.717	162.671	-6.386	1.00 92.81	A16S
ATOM	24857	N7	A	A1179	221.045	163.912	-6.912	1.00 92.81	A16S
ATOM	24858	C8	A	A1179	222.233	163.727	-7.435	1.00 92.81	A16S
ATOM	24859	C2*	A	A1179	223.714	161.109	-9.111	1.00 83.02	A16S
ATOM	24860	O2*	A	A1179	224.627	160.034	-9.197	1.00 83.02	A16S
ATOM	24861	C3*	A	A1179	223.948	162.188	-10.158	1.00 83.02	A16S
ATOM	24862	O3*	A	A1179	224.267	161.670	-11.441	1.00 83.02	A16S
ATOM	24863	P	A	A1180	223.127	161.629	-12.578	1.00 82.60	A16S
ATOM	24864	O1P	A	A1180	223.733	161.166	-13.849	1.00 90.88	A16S

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ATOM	24865	O2P	A	A1180	222.392	162.918	-12.549	1.00	90.88	A16S
ATOM	24866	O5*	A	A1180	222.137	160.486	-12.078	1.00	82.60	A16S
ATOM	24867	C5*	A	A1180	222.638	159.176	-11.740	1.00	82.60	A16S
ATOM	24868	C4*	A	A1180	221.633	158.423	-10.894	1.00	82.60	A16S
ATOM	24869	O4*	A	A1180	221.456	159.104	-9.624	1.00	82.60	A16S
ATOM	24870	C1*	A	A1180	220.085	159.104	-9.267	1.00	82.60	A16S
ATOM	24871	N9	A	A1180	219.633	160.499	-9.305	1.00	90.88	A16S
ATOM	24872	C4	A	A1180	218.542	161.057	-8.684	1.00	90.88	A16S
ATOM	24873	N3	A	A1180	217.649	160.445	-7.891	1.00	90.88	A16S
ATOM	24874	C2	A	A1180	216.722	161.307	-7.482	1.00	90.88	A16S
ATOM	24875	N1	A	A1180	216.595	162.611	-7.758	1.00	90.88	A16S
ATOM	24876	C6	A	A1180	217.511	163.191	-8.557	1.00	90.88	A16S
ATOM	24877	N6	A	A1180	217.385	164.487	-8.843	1.00	90.88	A16S
ATOM	24878	C5	A	A1180	218.543	162.391	-9.050	1.00	90.88	A16S
ATOM	24879	N7	A	A1180	219.618	162.674	-9.875	1.00	90.88	A16S
ATOM	24880	C8	A	A1180	220.232	161.526	-9.995	1.00	90.88	A16S
ATOM	24881	C2*	A	A1180	219.352	158.195	-10.265	1.00	82.60	A16S
ATOM	24882	O2*	A	A1180	219.311	156.876	-9.751	1.00	82.60	A16S
ATOM	24883	C3*	A	A1180	220.241	158.308	-11.499	1.00	82.60	A16S
ATOM	24884	O3*	A	A1180	220.169	157.164	-12.348	1.00	82.60	A16S
ATOM	24885	P	G	A1181	219.515	157.290	-13.808	1.00	97.79	A16S
ATOM	24886	O1P	G	A1181	219.986	156.131	-14.591	1.00	98.93	A16S
ATOM	24887	O2P	G	A1181	219.711	158.657	-14.335	1.00	98.93	A16S
ATOM	24888	O5*	G	A1181	217.977	157.062	-13.526	1.00	97.79	A16S
ATOM	24889	C5*	G	A1181	217.581	156.001	-12.668	1.00	97.79	A16S
ATOM	24890	C4*	G	A1181	216.092	155.885	-12.649	1.00	97.79	A16S
ATOM	24891	O4*	G	A1181	215.539	157.154	-12.241	1.00	97.79	A16S
ATOM	24892	C1*	G	A1181	214.290	157.340	-12.868	1.00	97.79	A16S
ATOM	24893	N9	G	A1181	214.318	158.621	-13.554	1.00	98.93	A16S
ATOM	24894	C4	G	A1181	213.576	159.724	-13.215	1.00	98.93	A16S
ATOM	24895	N3	G	A1181	212.666	159.793	-12.217	1.00	98.93	A16S
ATOM	24896	C2	G	A1181	212.133	160.998	-12.119	1.00	98.93	A16S
ATOM	24897	N2	G	A1181	211.199	161.244	-11.198	1.00	98.93	A16S
ATOM	24898	N1	G	A1181	212.473	162.050	-12.920	1.00	98.93	A16S
ATOM	24899	C6	G	A1181	213.405	162.001	-13.950	1.00	98.93	A16S
ATOM	24900	O6	G	A1181	213.638	163.014	-14.611	1.00	98.93	A16S
ATOM	24901	C5	G	A1181	213.975	160.710	-14.081	1.00	98.93	A16S
ATOM	24902	N7	G	A1181	214.927	160.227	-14.973	1.00	98.93	A16S
ATOM	24903	C8	G	A1181	215.094	158.981	-14.626	1.00	98.93	A16S
ATOM	24904	C2*	G	A1181	214.013	156.134	-13.766	1.00	97.79	A16S
ATOM	24905	O2*	G	A1181	213.206	155.229	-13.034	1.00	97.79	A16S
ATOM	24906	C3*	G	A1181	215.414	155.575	-13.975	1.00	97.79	A16S
ATOM	24907	O3*	G	A1181	215.363	154.169	-14.170	1.00	97.79	A16S
ATOM	24908	P	G	A1182	214.686	153.575	-15.494	1.00	105.87	A16S
ATOM	24909	O1P	G	A1182	215.180	152.180	-15.597	1.00	100.60	A16S
ATOM	24910	O2P	G	A1182	214.937	154.535	-16.604	1.00	100.60	A16S
ATOM	24911	O5*	G	A1182	213.115	153.570	-15.191	1.00	105.87	A16S
ATOM	24912	C5*	G	A1182	212.531	152.750	-14.137	1.00	105.87	A16S
ATOM	24913	C4*	G	A1182	211.090	153.167	-13.889	1.00	105.87	A16S
ATOM	24914	O4*	G	A1182	211.091	154.608	-13.737	1.00	105.87	A16S
ATOM	24915	C1*	G	A1182	210.029	155.184	-14.468	1.00	105.87	A16S
ATOM	24916	N9	G	A1182	210.612	156.057	-15.483	1.00	100.60	A16S
ATOM	24917	C4	G	A1182	210.602	157.435	-15.475	1.00	100.60	A16S
ATOM	24918	N3	G	A1182	210.015	158.222	-14.543	1.00	100.60	A16S
ATOM	24919	C2	G	A1182	210.184	159.511	-14.802	1.00	100.60	A16S
ATOM	24920	N2	G	A1182	209.655	160.433	-13.982	1.00	100.60	A16S
ATOM	24921	N1	G	A1182	210.881	159.988	-15.885	1.00	100.60	A16S
ATOM	24922	C6	G	A1182	211.492	159.199	-16.856	1.00	100.60	A16S
ATOM	24923	O6	G	A1182	212.097	159.733	-17.789	1.00	100.60	A16S
ATOM	24924	C5	G	A1182	211.310	157.811	-16.595	1.00	100.60	A16S
ATOM	24925	N7	G	A1182	211.738	156.697	-17.305	1.00	100.60	A16S
ATOM	24926	C8	G	A1182	211.299	155.682	-16.612	1.00	100.60	A16S
ATOM	24927	C2*	G	A1182	209.138	154.059	-14.994	1.00	105.87	A16S
ATOM	24928	O2*	G	A1182	208.029	153.925	-14.135	1.00	105.87	A16S
ATOM	24929	C3*	G	A1182	210.107	152.880	-15.022	1.00	105.87	A16S
ATOM	24930	O3*	G	A1182	209.531	151.550	-14.971	1.00	105.87	A16S
ATOM	24931	P	A	A1183	208.547	151.100	-13.757	1.00	87.38	A16S
ATOM	24932	O1P	A	A1183	208.438	149.617	-13.859	1.00	89.64	A16S
ATOM	24933	O2P	A	A1183	207.296	151.906	-13.702	1.00	89.64	A16S
ATOM	24934	O5*	A	A1183	209.417	151.373	-12.455	1.00	87.38	A16S
ATOM	24935	C5*	A	A1183	208.903	152.144	-11.375	1.00	87.38	A16S
ATOM	24936	C4*	A	A1183	209.414	151.593	-10.078	1.00	87.38	A16S
ATOM	24937	O4*	A	A1183	208.871	150.274	-9.886	1.00	87.38	A16S
ATOM	24938	C1*	A	A1183	209.740	149.538	-9.059	1.00	87.38	A16S
ATOM	24939	N9	A	A1183	209.770	148.155	-9.522	1.00	89.64	A16S
ATOM	24940	C4	A	A1183	209.408	147.064	-8.771	1.00	89.64	A16S
ATOM	24941	N3	A	A1183	208.977	147.056	-7.499	1.00	89.64	A16S

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ATOM	24942	C2	A	A1183	208.738	145.816	-7.094	1.00	89.64	A16S
ATOM	24943	N1	A	A1183	208.866	144.670	-7.765	1.00	89.64	A16S
ATOM	24944	C6	A	A1183	209.294	144.715	-9.046	1.00	89.64	A16S
ATOM	24945	N6	A	A1183	209.416	143.573	-9.725	1.00	89.64	A16S
ATOM	24946	C5	A	A1183	209.586	145.967	-9.590	1.00	89.64	A16S
ATOM	24947	N7	A	A1183	210.045	146.356	-10.839	1.00	89.64	A16S
ATOM	24948	C8	A	A1183	210.140	147.662	-10.747	1.00	89.64	A16S
ATOM	24949	C2*	A	A1183	211.081	150.272	-8.962	1.00	87.38	A16S
ATOM	24950	O2*	A	A1183	211.255	150.695	-7.626	1.00	87.38	A16S
ATOM	24951	C3*	A	A1183	210.920	151.402	-9.994	1.00	87.38	A16S
ATOM	24952	O3*	A	A1183	211.493	152.684	-9.662	1.00	87.38	A16S
ATOM	24953	P	G	A1184	212.846	152.794	-8.789	1.00	84.91	A16S
ATOM	24954	O1P	G	A1184	213.455	151.446	-8.595	1.00	78.63	A16S
ATOM	24955	O2P	G	A1184	212.512	153.624	-7.596	1.00	78.63	A16S
ATOM	24956	O5*	G	A1184	213.834	153.647	-9.704	1.00	84.91	A16S
ATOM	24957	C5*	G	A1184	214.437	153.091	-10.892	1.00	84.91	A16S
ATOM	24958	C4*	G	A1184	215.920	152.859	-10.673	1.00	84.91	A16S
ATOM	24959	O4*	G	A1184	216.467	153.999	-9.949	1.00	84.91	A16S
ATOM	24960	C1*	G	A1184	217.475	153.565	-9.048	1.00	84.91	A16S
ATOM	24961	N9	G	A1184	217.021	153.839	-7.687	1.00	78.63	A16S
ATOM	24962	C4	G	A1184	217.758	153.687	-6.533	1.00	78.63	A16S
ATOM	24963	N3	G	A1184	219.053	153.317	-6.459	1.00	78.63	A16S
ATOM	24964	C2	G	A1184	219.474	153.246	-5.209	1.00	78.63	A16S
ATOM	24965	N2	G	A1184	220.741	152.915	-4.957	1.00	78.63	A16S
ATOM	24966	N1	G	A1184	218.684	153.498	-4.118	1.00	78.63	A16S
ATOM	24967	C6	G	A1184	217.346	153.875	-4.173	1.00	78.63	A16S
ATOM	24968	O6	G	A1184	216.715	154.071	-3.131	1.00	78.63	A16S
ATOM	24969	C5	G	A1184	216.887	153.975	-5.504	1.00	78.63	A16S
ATOM	24970	N7	G	A1184	215.640	154.338	-5.998	1.00	78.63	A16S
ATOM	24971	C8	G	A1184	215.769	154.251	-7.294	1.00	78.63	A16S
ATOM	24972	C2*	G	A1184	217.664	152.061	-9.260	1.00	84.91	A16S
ATOM	24973	O2*	G	A1184	218.738	151.818	-10.153	1.00	84.91	A16S
ATOM	24974	C3*	G	A1184	216.304	151.657	-9.817	1.00	84.91	A16S
ATOM	24975	O3*	G	A1184	216.378	150.448	-10.568	1.00	84.91	A16S
ATOM	24976	P	G	A1185	216.169	149.032	-9.827	1.00	70.10	A16S
ATOM	24977	O1P	G	A1185	216.213	148.020	-10.904	1.00	78.11	A16S
ATOM	24978	O2P	G	A1185	214.989	149.091	-8.918	1.00	78.11	A16S
ATOM	24979	O5*	G	A1185	217.475	148.841	-8.939	1.00	70.10	A16S
ATOM	24980	C5*	G	A1185	218.710	148.459	-9.554	1.00	70.10	A16S
ATOM	24981	C4*	G	A1185	219.727	148.059	-8.513	1.00	70.10	A16S
ATOM	24982	O4*	G	A1185	220.174	149.228	-7.779	1.00	70.10	A16S
ATOM	24983	C1*	G	A1185	220.432	148.871	-6.428	1.00	70.10	A16S
ATOM	24984	N9	G	A1185	219.454	149.553	-5.588	1.00	78.11	A16S
ATOM	24985	C4	G	A1185	219.469	149.605	-4.223	1.00	78.11	A16S
ATOM	24986	N3	G	A1185	220.405	149.060	-3.428	1.00	78.11	A16S
ATOM	24987	C2	G	A1185	220.141	149.256	-2.155	1.00	78.11	A16S
ATOM	24988	N2	G	A1185	220.971	148.773	-1.232	1.00	78.11	A16S
ATOM	24989	N1	G	A1185	219.041	149.937	-1.695	1.00	78.11	A16S
ATOM	24990	C6	G	A1185	218.059	150.506	-2.500	1.00	78.11	A16S
ATOM	24991	O6	G	A1185	217.097	151.088	-1.988	1.00	78.11	A16S
ATOM	24992	C5	G	A1185	218.335	150.304	-3.869	1.00	78.11	A16S
ATOM	24993	N7	G	A1185	217.627	150.700	-4.997	1.00	78.11	A16S
ATOM	24994	C8	G	A1185	218.329	150.237	-5.993	1.00	78.11	A16S
ATOM	24995	C2*	G	A1185	220.248	147.357	-6.307	1.00	70.10	A16S
ATOM	24996	O2*	G	A1185	221.498	146.703	-6.449	1.00	70.10	A16S
ATOM	24997	C3*	G	A1185	219.263	147.087	-7.440	1.00	70.10	A16S
ATOM	24998	O3*	G	A1185	219.262	145.736	-7.869	1.00	70.10	A16S
ATOM	24999	P	G	A1186	218.169	144.722	-7.269	1.00	57.05	A16S
ATOM	25000	O1P	G	A1186	218.276	143.459	-8.045	1.00	80.50	A16S
ATOM	25001	O2P	G	A1186	216.858	145.429	-7.189	1.00	80.50	A16S
ATOM	25002	O5*	G	A1186	218.692	144.443	-5.793	1.00	57.05	A16S
ATOM	25003	C5*	G	A1186	219.968	143.829	-5.586	1.00	57.05	A16S
ATOM	25004	C4*	G	A1186	220.256	143.708	-4.117	1.00	57.05	A16S
ATOM	25005	O4*	G	A1186	220.412	145.035	-3.548	1.00	57.05	A16S
ATOM	25006	C1*	G	A1186	219.922	145.048	-2.211	1.00	57.05	A16S
ATOM	25007	N9	G	A1186	218.819	146.002	-2.117	1.00	80.50	A16S
ATOM	25008	C4	G	A1186	218.225	146.443	-0.959	1.00	80.50	A16S
ATOM	25009	N3	G	A1186	218.586	146.103	0.295	1.00	80.50	A16S
ATOM	25010	C2	G	A1186	217.822	146.682	1.200	1.00	80.50	A16S
ATOM	25011	N2	G	A1186	218.054	146.465	2.499	1.00	80.50	A16S
ATOM	25012	N1	G	A1186	216.776	147.518	0.896	1.00	80.50	A16S
ATOM	25013	C6	G	A1186	216.382	147.872	-0.389	1.00	80.50	A16S
ATOM	25014	O6	G	A1186	215.413	148.624	-0.556	1.00	80.50	A16S
ATOM	25015	C5	G	A1186	217.203	147.272	-1.365	1.00	80.50	A16S
ATOM	25016	N7	G	A1186	217.169	147.372	-2.747	1.00	80.50	A16S
ATOM	25017	C8	G	A1186	218.147	146.608	-3.150	1.00	80.50	A16S
ATOM	25018	C2*	G	A1186	219.437	143.635	-1.890	1.00	57.05	A16S

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ATOM	25019	O2*	G	A1186	220.417	142.912	-1.161	1.00	57.05	A16S
ATOM	25020	C3*	G	A1186	219.154	143.088	-3.285	1.00	57.05	A16S
ATOM	25021	O3*	G	A1186	219.122	141.682	-3.321	1.00	57.05	A16S
ATOM	25022	P	G	A1187	217.908	140.924	-2.607	1.00	64.53	A16S
ATOM	25023	O1P	G	A1187	218.046	139.472	-2.864	1.00	64.35	A16S
ATOM	25024	O2P	G	A1187	216.648	141.624	-2.968	1.00	64.35	A16S
ATOM	25025	O5*	G	A1187	218.204	141.149	-1.062	1.00	64.53	A16S
ATOM	25026	C5*	G	A1187	217.278	140.704	-0.073	1.00	64.53	A16S
ATOM	25027	C4*	G	A1187	217.580	141.344	1.261	1.00	64.53	A16S
ATOM	25028	O4*	G	A1187	217.647	142.791	1.131	1.00	64.53	A16S
ATOM	25029	C1*	G	A1187	216.986	143.403	2.229	1.00	64.53	A16S
ATOM	25030	N9	G	A1187	215.852	144.171	1.705	1.00	64.35	A16S
ATOM	25031	C4	G	A1187	214.904	144.866	2.430	1.00	64.35	A16S
ATOM	25032	N3	G	A1187	214.833	144.951	3.776	1.00	64.35	A16S
ATOM	25033	C2	G	A1187	213.829	145.727	4.172	1.00	64.35	A16S
ATOM	25034	N2	G	A1187	213.621	145.937	5.484	1.00	64.35	A16S
ATOM	25035	N1	G	A1187	212.958	146.361	3.315	1.00	64.35	A16S
ATOM	25036	C6	G	A1187	213.009	146.288	1.926	1.00	64.35	A16S
ATOM	25037	O6	G	A1187	212.181	146.911	1.243	1.00	64.35	A16S
ATOM	25038	C5	G	A1187	214.084	145.459	1.486	1.00	64.35	A16S
ATOM	25039	N7	G	A1187	214.489	145.126	0.202	1.00	64.35	A16S
ATOM	25040	C8	G	A1187	215.533	144.361	0.379	1.00	64.35	A16S
ATOM	25041	C2*	G	A1187	216.600	142.291	3.209	1.00	64.53	A16S
ATOM	25042	O2*	G	A1187	217.641	142.110	4.149	1.00	64.53	A16S
ATOM	25043	C3*	G	A1187	216.483	141.095	2.279	1.00	64.53	A16S
ATOM	25044	O3*	G	A1187	216.660	139.843	2.921	1.00	64.53	A16S
ATOM	25045	P	A	A1188	215.395	138.873	3.095	1.00	70.15	A16S
ATOM	25046	O1P	A	A1188	215.838	137.529	3.592	1.00	55.46	A16S
ATOM	25047	O2P	A	A1188	214.578	138.978	1.837	1.00	55.46	A16S
ATOM	25048	O5*	A	A1188	214.576	139.568	4.270	1.00	70.15	A16S
ATOM	25049	C5*	A	A1188	215.126	139.662	5.597	1.00	70.15	A16S
ATOM	25050	C4*	A	A1188	214.202	140.466	6.475	1.00	70.15	A16S
ATOM	25051	O4*	A	A1188	214.182	141.840	6.029	1.00	70.15	A16S
ATOM	25052	C1*	A	A1188	212.873	142.352	6.122	1.00	70.15	A16S
ATOM	25053	N9	A	A1188	212.454	142.661	4.767	1.00	55.46	A16S
ATOM	25054	C4	A	A1188	211.478	143.539	4.375	1.00	55.46	A16S
ATOM	25055	N3	A	A1188	210.714	144.312	5.160	1.00	55.46	A16S
ATOM	25056	C2	A	A1188	209.885	145.052	4.422	1.00	55.46	A16S
ATOM	25057	N1	A	A1188	209.740	145.097	3.091	1.00	55.46	A16S
ATOM	25058	C6	A	A1188	210.520	144.300	2.333	1.00	55.46	A16S
ATOM	25059	N6	A	A1188	210.372	144.332	1.007	1.00	55.46	A16S
ATOM	25060	C5	A	A1188	211.448	143.476	2.993	1.00	55.46	A16S
ATOM	25061	N7	A	A1188	212.396	142.577	2.524	1.00	55.46	A16S
ATOM	25062	C8	A	A1188	212.961	142.121	3.613	1.00	55.46	A16S
ATOM	25063	C2*	A	A1188	211.998	141.279	6.765	1.00	70.15	A16S
ATOM	25064	O2*	A	A1188	211.968	141.462	8.163	1.00	70.15	A16S
ATOM	25065	C3*	A	A1188	212.758	140.019	6.415	1.00	70.15	A16S
ATOM	25066	O3*	A	A1188	212.536	139.018	7.372	1.00	70.15	A16S
ATOM	25067	P	C	A1189	211.599	137.786	6.999	1.00	61.43	A16S
ATOM	25068	O1P	C	A1189	211.212	137.136	8.279	1.00	66.23	A16S
ATOM	25069	O2P	C	A1189	212.303	136.995	5.962	1.00	66.23	A16S
ATOM	25070	O5*	C	A1189	210.328	138.490	6.332	1.00	61.43	A16S
ATOM	25071	C5*	C	A1189	209.407	139.266	7.133	1.00	61.43	A16S
ATOM	25072	C4*	C	A1189	208.354	139.940	6.267	1.00	61.43	A16S
ATOM	25073	O4*	C	A1189	208.982	140.896	5.376	1.00	61.43	A16S
ATOM	25074	C1*	C	A1189	208.240	140.979	4.176	1.00	61.43	A16S
ATOM	25075	N1	C	A1189	209.079	140.498	3.080	1.00	66.23	A16S
ATOM	25076	C6	C	A1189	210.103	139.620	3.313	1.00	66.23	A16S
ATOM	25077	C2	C	A1189	208.802	140.939	1.786	1.00	66.23	A16S
ATOM	25078	O2	C	A1189	207.858	141.733	1.606	1.00	66.23	A16S
ATOM	25079	N3	C	A1189	209.561	140.486	0.764	1.00	66.23	A16S
ATOM	25080	C4	C	A1189	210.557	139.626	1.002	1.00	66.23	A16S
ATOM	25081	N4	C	A1189	211.280	139.207	-0.036	1.00	66.23	A16S
ATOM	25082	C5	C	A1189	210.856	139.160	2.315	1.00	66.23	A16S
ATOM	25083	C2*	C	A1189	207.013	140.085	4.322	1.00	61.43	A16S
ATOM	25084	O2*	C	A1189	205.953	140.901	4.781	1.00	61.43	A16S
ATOM	25085	C3*	C	A1189	207.493	139.071	5.356	1.00	61.43	A16S
ATOM	25086	O3*	C	A1189	206.393	138.504	6.053	1.00	61.43	A16S
ATOM	25087	P	G	A1190	206.409	136.947	6.457	1.00	66.89	A16S
ATOM	25088	O1P	G	A1190	205.447	136.854	7.576	1.00	85.89	A16S
ATOM	25089	O2P	G	A1190	207.787	136.442	6.634	1.00	85.89	A16S
ATOM	25090	O5*	G	A1190	205.792	136.223	5.192	1.00	66.89	A16S
ATOM	25091	C5*	G	A1190	204.566	136.685	4.630	1.00	66.89	A16S
ATOM	25092	C4*	G	A1190	204.260	135.924	3.373	1.00	66.89	A16S
ATOM	25093	O4*	G	A1190	205.376	136.091	2.472	1.00	66.89	A16S
ATOM	25094	C1*	G	A1190	205.528	134.930	1.694	1.00	66.89	A16S
ATOM	25095	N9	G	A1190	206.934	134.538	1.727	1.00	85.89	A16S

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ATOM	25096	C4	G	A1190	207.632	133.860	0.749	1.00	85.89	A16S
ATOM	25097	N3	G	A1190	207.129	133.397	-0.417	1.00	85.89	A16S
ATOM	25098	C2	G	A1190	208.058	132.826	-1.165	1.00	85.89	A16S
ATOM	25099	N2	G	A1190	207.741	132.333	-2.361	1.00	85.89	A16S
ATOM	25100	N1	G	A1190	209.373	132.701	-0.797	1.00	85.89	A16S
ATOM	25101	C6	G	A1190	209.918	133.166	0.400	1.00	85.89	A16S
ATOM	25102	O6	G	A1190	211.134	133.003	0.640	1.00	85.89	A16S
ATOM	25103	C5	G	A1190	208.931	133.796	1.209	1.00	85.89	A16S
ATOM	25104	N7	G	A1190	209.044	134.400	2.453	1.00	85.89	A16S
ATOM	25105	C8	G	A1190	207.836	134.814	2.723	1.00	85.89	A16S
ATOM	25106	C2*	G	A1190	204.452	133.918	2.113	1.00	66.89	A16S
ATOM	25107	O2*	G	A1190	203.398	134.091	1.193	1.00	66.89	A16S
ATOM	25108	C3*	G	A1190	204.041	134.417	3.498	1.00	66.89	A16S
ATOM	25109	O3*	G	A1190	202.651	134.238	3.918	1.00	66.89	A16S
ATOM	25110	P	A	A1191	201.660	133.121	3.251	1.00	48.45	A16S
ATOM	25111	O1P	A	A1191	202.398	132.192	2.365	1.00	82.72	A16S
ATOM	25112	O2P	A	A1191	200.837	132.550	4.353	1.00	82.72	A16S
ATOM	25113	O5*	A	A1191	200.632	133.993	2.393	1.00	48.45	A16S
ATOM	25114	C5*	A	A1191	199.979	135.139	2.996	1.00	48.45	A16S
ATOM	25115	C4*	A	A1191	198.557	135.293	2.490	1.00	48.45	A16S
ATOM	25116	O4*	A	A1191	198.575	135.673	1.094	1.00	48.45	A16S
ATOM	25117	C1*	A	A1191	197.574	134.970	0.396	1.00	48.45	A16S
ATOM	25118	N9	A	A1191	198.265	134.137	-0.585	1.00	82.72	A16S
ATOM	25119	C4	A	A1191	197.733	133.511	-1.684	1.00	82.72	A16S
ATOM	25120	N3	A	A1191	196.450	133.501	-2.079	1.00	82.72	A16S
ATOM	25121	C2	A	A1191	196.315	132.814	-3.205	1.00	82.72	A16S
ATOM	25122	N1	A	A1191	197.243	132.183	-3.926	1.00	82.72	A16S
ATOM	25123	C6	A	A1191	198.520	132.210	-3.498	1.00	82.72	A16S
ATOM	25124	N6	A	A1191	199.449	131.583	-4.216	1.00	82.72	A16S
ATOM	25125	C5	A	A1191	198.796	132.901	-2.318	1.00	82.72	A16S
ATOM	25126	N7	A	A1191	199.974	133.115	-1.621	1.00	82.72	A16S
ATOM	25127	C8	A	A1191	199.606	133.845	-0.602	1.00	82.72	A16S
ATOM	25128	C2*	A	A1191	196.712	134.214	1.419	1.00	48.45	A16S
ATOM	25129	O2*	A	A1191	195.538	134.962	1.686	1.00	48.45	A16S
ATOM	25130	C3*	A	A1191	197.670	134.063	2.608	1.00	48.45	A16S
ATOM	25131	O3*	A	A1191	196.998	134.125	3.874	1.00	48.45	A16S
ATOM	25132	P	C	A1192	196.408	132.791	4.558	1.00	42.68	A16S
ATOM	25133	O1P	C	A1192	195.711	133.216	5.808	1.00	84.78	A16S
ATOM	25134	O2P	C	A1192	197.475	131.757	4.633	1.00	84.78	A16S
ATOM	25135	O5*	C	A1192	195.288	132.289	3.539	1.00	42.68	A16S
ATOM	25136	C5*	C	A1192	193.938	132.786	3.612	1.00	42.68	A16S
ATOM	25137	C4*	C	A1192	192.994	131.838	2.905	1.00	42.68	A16S
ATOM	25138	O4*	C	A1192	193.197	131.924	1.472	1.00	42.68	A16S
ATOM	25139	C1*	C	A1192	193.070	130.628	0.900	1.00	42.68	A16S
ATOM	25140	N1	C	A1192	194.356	130.275	0.261	1.00	84.78	A16S
ATOM	25141	C6	C	A1192	195.541	130.699	0.797	1.00	84.78	A16S
ATOM	25142	C2	C	A1192	194.350	129.491	-0.898	1.00	84.78	A16S
ATOM	25143	O2	C	A1192	193.264	129.144	-1.386	1.00	84.78	A16S
ATOM	25144	N3	C	A1192	195.528	129.142	-1.462	1.00	84.78	A16S
ATOM	25145	C4	C	A1192	196.677	129.560	-0.925	1.00	84.78	A16S
ATOM	25146	N4	C	A1192	197.816	129.194	-1.511	1.00	84.78	A16S
ATOM	25147	C5	C	A1192	196.710	130.372	0.238	1.00	84.78	A16S
ATOM	25148	C2*	C	A1192	192.690	129.646	2.013	1.00	42.68	A16S
ATOM	25149	O2*	C	A1192	191.303	129.410	2.059	1.00	42.68	A16S
ATOM	25150	C3*	C	A1192	193.185	130.370	3.253	1.00	42.68	A16S
ATOM	25151	O3*	C	A1192	192.419	129.990	4.378	1.00	42.68	A16S
ATOM	25152	P	G	A1193	192.749	128.609	5.121	1.00	51.18	A16S
ATOM	25153	O1P	G	A1193	191.592	128.216	5.960	1.00	75.90	A16S
ATOM	25154	O2P	G	A1193	194.101	128.741	5.741	1.00	75.90	A16S
ATOM	25155	O5*	G	A1193	192.802	127.564	3.924	1.00	51.18	A16S
ATOM	25156	C5*	G	A1193	193.775	126.503	3.904	1.00	51.18	A16S
ATOM	25157	C4*	G	A1193	193.970	126.005	2.491	1.00	51.18	A16S
ATOM	25158	O4*	G	A1193	194.560	127.044	1.658	1.00	51.18	A16S
ATOM	25159	C1*	G	A1193	195.516	126.471	0.782	1.00	51.18	A16S
ATOM	25160	N9	G	A1193	196.832	126.995	1.155	1.00	75.90	A16S
ATOM	25161	C4	G	A1193	198.041	126.727	0.544	1.00	75.90	A16S
ATOM	25162	N3	G	A1193	198.227	125.950	-0.545	1.00	75.90	A16S
ATOM	25163	C2	G	A1193	199.506	125.849	-0.868	1.00	75.90	A16S
ATOM	25164	N2	G	A1193	199.867	125.106	-1.927	1.00	75.90	A16S
ATOM	25165	N1	G	A1193	200.521	126.462	-0.177	1.00	75.90	A16S
ATOM	25166	C6	G	A1193	200.353	127.267	0.943	1.00	75.90	A16S
ATOM	25167	O6	G	A1193	201.340	127.765	1.497	1.00	75.90	A16S
ATOM	25168	C5	G	A1193	198.986	127.387	1.297	1.00	75.90	A16S
ATOM	25169	N7	G	A1193	198.388	128.080	2.338	1.00	75.90	A16S
ATOM	25170	C8	G	A1193	197.116	127.826	2.210	1.00	75.90	A16S
ATOM	25171	C2*	G	A1193	195.422	124.948	0.953	1.00	51.18	A16S
ATOM	25172	O2*	G	A1193	194.502	124.408	0.020	1.00	51.18	A16S

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ATOM	25173	C3*	G	A1193	194.914	124.829	2.381	1.00	51.18	A16S
ATOM	25174	O3*	G	A1193	194.194	123.636	2.599	1.00	51.18	A16S
ATOM	25175	P	U	A1194	194.958	122.340	3.140	1.00	61.11	A16S
ATOM	25176	O1P	U	A1194	193.976	121.234	3.296	1.00	65.56	A16S
ATOM	25177	O2P	U	A1194	195.787	122.758	4.296	1.00	65.56	A16S
ATOM	25178	O5*	U	A1194	195.917	121.947	1.933	1.00	61.11	A16S
ATOM	25179	C5*	U	A1194	195.383	121.656	0.624	1.00	61.11	A16S
ATOM	25180	C4*	U	A1194	196.468	121.099	-0.264	1.00	61.11	A16S
ATOM	25181	O4*	U	A1194	197.374	122.153	-0.688	1.00	61.11	A16S
ATOM	25182	C1*	U	A1194	198.696	121.647	-0.740	1.00	61.11	A16S
ATOM	25183	N1	U	A1194	199.540	122.437	0.172	1.00	65.56	A16S
ATOM	25184	C6	U	A1194	198.993	123.193	1.177	1.00	65.56	A16S
ATOM	25185	C2	U	A1194	200.915	122.379	0.002	1.00	65.56	A16S
ATOM	25186	O2	U	A1194	201.457	121.753	-0.897	1.00	65.56	A16S
ATOM	25187	N3	U	A1194	201.637	123.085	0.924	1.00	65.56	A16S
ATOM	25188	C4	U	A1194	201.147	123.837	1.955	1.00	65.56	A16S
ATOM	25189	O4	U	A1194	201.932	124.400	2.707	1.00	65.56	A16S
ATOM	25190	C5	U	A1194	199.729	123.875	2.048	1.00	65.56	A16S
ATOM	25191	C2*	U	A1194	198.649	120.159	-0.363	1.00	61.11	A16S
ATOM	25192	O2*	U	A1194	198.645	119.360	-1.524	1.00	61.11	A16S
ATOM	25193	C3*	U	A1194	197.345	120.064	0.413	1.00	61.11	A16S
ATOM	25194	O3*	U	A1194	196.754	118.778	0.327	1.00	61.11	A16S
ATOM	25195	P	C	A1195	197.056	117.684	1.469	1.00	45.26	A16S
ATOM	25196	O1P	C	A1195	196.138	116.522	1.270	1.00	77.54	A16S
ATOM	25197	O2P	C	A1195	197.113	118.370	2.798	1.00	77.54	A16S
ATOM	25198	O5*	C	A1195	198.519	117.189	1.125	1.00	45.26	A16S
ATOM	25199	C5*	C	A1195	198.827	116.704	-0.178	1.00	45.26	A16S
ATOM	25200	C4*	C	A1195	200.284	116.413	-0.250	1.00	45.26	A16S
ATOM	25201	O4*	C	A1195	201.011	117.657	-0.227	1.00	45.26	A16S
ATOM	25202	C1*	C	A1195	202.146	117.520	0.601	1.00	45.26	A16S
ATOM	25203	N1	C	A1195	202.138	118.637	1.577	1.00	77.54	A16S
ATOM	25204	C6	C	A1195	200.974	119.284	1.889	1.00	77.54	A16S
ATOM	25205	C2	C	A1195	203.350	119.051	2.162	1.00	77.54	A16S
ATOM	25206	O2	C	A1195	204.397	118.439	1.890	1.00	77.54	A16S
ATOM	25207	N3	C	A1195	203.347	120.111	3.009	1.00	77.54	A16S
ATOM	25208	C4	C	A1195	202.206	120.743	3.282	1.00	77.54	A16S
ATOM	25209	N4	C	A1195	202.254	121.785	4.104	1.00	77.54	A16S
ATOM	25210	C5	C	A1195	200.965	120.334	2.723	1.00	77.54	A16S
ATOM	25211	C2*	C	A1195	202.197	116.074	1.123	1.00	45.26	A16S
ATOM	25212	O2*	C	A1195	203.092	115.356	0.303	1.00	45.26	A16S
ATOM	25213	C3*	C	A1195	200.748	115.617	0.953	1.00	45.26	A16S
ATOM	25214	O3*	C	A1195	200.537	114.242	0.608	1.00	45.26	A16S
ATOM	25215	P	U	A1196	200.702	113.078	1.702	1.00	83.06	A16S
ATOM	25216	O1P	U	A1196	201.898	113.388	2.510	1.00	98.18	A16S
ATOM	25217	O2P	U	A1196	200.624	111.792	0.975	1.00	98.18	A16S
ATOM	25218	O5*	U	A1196	199.422	113.174	2.643	1.00	83.06	A16S
ATOM	25219	C5*	U	A1196	199.088	114.401	3.306	1.00	83.06	A16S
ATOM	25220	C4*	U	A1196	198.918	114.189	4.798	1.00	83.06	A16S
ATOM	25221	O4*	U	A1196	197.795	113.330	5.071	1.00	83.06	A16S
ATOM	25222	C1*	U	A1196	197.912	112.852	6.390	1.00	83.06	A16S
ATOM	25223	N1	U	A1196	197.324	111.506	6.478	1.00	98.18	A16S
ATOM	25224	C6	U	A1196	197.940	110.401	5.944	1.00	98.18	A16S
ATOM	25225	C2	U	A1196	196.096	111.393	7.123	1.00	98.18	A16S
ATOM	25226	O2	U	A1196	195.506	112.345	7.618	1.00	98.18	A16S
ATOM	25227	N3	U	A1196	195.578	110.126	7.167	1.00	98.18	A16S
ATOM	25228	C4	U	A1196	196.135	108.986	6.646	1.00	98.18	A16S
ATOM	25229	O4	U	A1196	195.519	107.925	6.733	1.00	98.18	A16S
ATOM	25230	C5	U	A1196	197.400	109.177	6.003	1.00	98.18	A16S
ATOM	25231	C2*	U	A1196	199.354	113.076	6.865	1.00	83.06	A16S
ATOM	25232	O2*	U	A1196	199.335	114.096	7.848	1.00	83.06	A16S
ATOM	25233	C3*	U	A1196	200.055	113.566	5.594	1.00	83.06	A16S
ATOM	25234	O3*	U	A1196	200.953	114.628	5.902	1.00	83.06	A16S
ATOM	25235	P	G	A1197	202.277	114.371	6.786	1.00	58.08	A16S
ATOM	25236	O1P	G	A1197	202.630	112.920	6.924	1.00	56.46	A16S
ATOM	25237	O2P	G	A1197	202.092	115.213	8.004	1.00	56.46	A16S
ATOM	25238	O5*	G	A1197	203.396	115.067	5.906	1.00	58.08	A16S
ATOM	25239	C5*	G	A1197	203.797	114.508	4.639	1.00	58.08	A16S
ATOM	25240	C4*	G	A1197	205.109	115.106	4.237	1.00	58.08	A16S
ATOM	25241	O4*	G	A1197	204.894	116.465	3.779	1.00	58.08	A16S
ATOM	25242	C1*	G	A1197	205.829	117.336	4.389	1.00	58.08	A16S
ATOM	25243	N9	G	A1197	205.065	118.305	5.181	1.00	56.46	A16S
ATOM	25244	C4	G	A1197	205.552	119.410	5.865	1.00	56.46	A16S
ATOM	25245	N3	G	A1197	206.842	119.816	5.920	1.00	56.46	A16S
ATOM	25246	C2	G	A1197	206.992	120.887	6.686	1.00	56.46	A16S
ATOM	25247	N2	G	A1197	208.201	121.431	6.857	1.00	56.46	A16S
ATOM	25248	N1	G	A1197	205.968	121.510	7.342	1.00	56.46	A16S
ATOM	25249	C6	G	A1197	204.636	121.122	7.301	1.00	56.46	A16S

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ATOM	25250	O6	G	A1197	203.795	121.765	7.936	1.00	56.46	A16S
ATOM	25251	C5	G	A1197	204.450	119.970	6.482	1.00	56.46	A16S
ATOM	25252	N7	G	A1197	203.295	119.257	6.175	1.00	56.46	A16S
ATOM	25253	C8	G	A1197	203.703	118.284	5.406	1.00	56.46	A16S
ATOM	25254	C2*	G	A1197	206.821	116.470	5.186	1.00	58.08	A16S
ATOM	25255	O2*	G	A1197	207.966	116.187	4.414	1.00	58.08	A16S
ATOM	25256	C3*	G	A1197	205.993	115.225	5.459	1.00	58.08	A16S
ATOM	25257	O3*	G	A1197	206.703	114.015	5.678	1.00	58.08	A16S
ATOM	25258	P	G	A1198	206.771	113.415	7.165	1.00	43.77	A16S
ATOM	25259	O1P	G	A1198	207.458	112.085	7.171	1.00	65.21	A16S
ATOM	25260	O2P	G	A1198	205.391	113.529	7.734	1.00	65.21	A16S
ATOM	25261	O5*	G	A1198	207.718	114.479	7.876	1.00	43.77	A16S
ATOM	25262	C5*	G	A1198	208.942	114.900	7.239	1.00	43.77	A16S
ATOM	25263	C4*	G	A1198	209.747	115.780	8.160	1.00	43.77	A16S
ATOM	25264	O4*	G	A1198	209.437	117.180	7.954	1.00	43.77	A16S
ATOM	25265	C1*	G	A1198	209.532	117.863	9.192	1.00	43.77	A16S
ATOM	25266	N9	G	A1198	208.234	118.466	9.483	1.00	65.21	A16S
ATOM	25267	C4	G	A1198	208.009	119.530	10.312	1.00	65.21	A16S
ATOM	25268	N3	G	A1198	208.953	120.222	10.978	1.00	65.21	A16S
ATOM	25269	C2	G	A1198	208.431	121.194	11.703	1.00	65.21	A16S
ATOM	25270	N2	G	A1198	209.229	122.002	12.413	1.00	65.21	A16S
ATOM	25271	N1	G	A1198	207.089	121.456	11.783	1.00	65.21	A16S
ATOM	25272	C6	G	A1198	206.097	120.752	11.112	1.00	65.21	A16S
ATOM	25273	O6	G	A1198	204.906	121.067	11.267	1.00	65.21	A16S
ATOM	25274	C5	G	A1198	206.646	119.715	10.311	1.00	65.21	A16S
ATOM	25275	N7	G	A1198	206.025	118.796	9.480	1.00	65.21	A16S
ATOM	25276	C8	G	A1198	207.005	118.078	9.009	1.00	65.21	A16S
ATOM	25277	C2*	G	A1198	209.964	116.850	10.260	1.00	43.77	A16S
ATOM	25278	O2*	G	A1198	211.360	116.892	10.409	1.00	43.77	A16S
ATOM	25279	C3*	G	A1198	209.534	115.534	9.638	1.00	43.77	A16S
ATOM	25280	O3*	G	A1198	210.295	114.431	10.087	1.00	43.77	A16S
ATOM	25281	P	U	A1199	209.818	113.633	11.394	1.00	51.02	A16S
ATOM	25282	O1P	U	A1199	210.705	112.451	11.618	1.00	50.27	A16S
ATOM	25283	O2P	U	A1199	208.340	113.425	11.280	1.00	50.27	A16S
ATOM	25284	O5*	U	A1199	210.118	114.676	12.562	1.00	51.02	A16S
ATOM	25285	C5*	U	A1199	211.474	115.037	12.889	1.00	51.02	A16S
ATOM	25286	C4*	U	A1199	211.495	116.103	13.959	1.00	51.02	A16S
ATOM	25287	O4*	U	A1199	210.832	117.292	13.470	1.00	51.02	A16S
ATOM	25288	C1*	U	A1199	210.120	117.909	14.517	1.00	51.02	A16S
ATOM	25289	N1	U	A1199	208.708	117.960	14.122	1.00	50.27	A16S
ATOM	25290	C6	U	A1199	208.087	116.884	13.534	1.00	50.27	A16S
ATOM	25291	C2	U	A1199	208.032	119.132	14.347	1.00	50.27	A16S
ATOM	25292	O2	U	A1199	208.543	120.090	14.902	1.00	50.27	A16S
ATOM	25293	N3	U	A1199	206.732	119.144	13.906	1.00	50.27	A16S
ATOM	25294	C4	U	A1199	206.059	118.115	13.294	1.00	50.27	A16S
ATOM	25295	O4	U	A1199	204.913	118.302	12.889	1.00	50.27	A16S
ATOM	25296	C5	U	A1199	206.821	116.921	13.128	1.00	50.27	A16S
ATOM	25297	C2*	U	A1199	210.383	117.121	15.797	1.00	51.02	A16S
ATOM	25298	O2*	U	A1199	211.429	117.769	16.488	1.00	51.02	A16S
ATOM	25299	C3*	U	A1199	210.776	115.754	15.247	1.00	51.02	A16S
ATOM	25300	O3*	U	A1199	211.662	115.059	16.106	1.00	51.02	A16S
ATOM	25301	P	C	A1200	211.196	113.684	16.768	1.00	85.05	A16S
ATOM	25302	O1P	C	A1200	212.408	112.990	17.277	1.00	83.37	A16S
ATOM	25303	O2P	C	A1200	210.320	112.998	15.794	1.00	83.37	A16S
ATOM	25304	O5*	C	A1200	210.292	114.143	17.993	1.00	85.05	A16S
ATOM	25305	C5*	C	A1200	210.181	113.311	19.154	1.00	85.05	A16S
ATOM	25306	C4*	C	A1200	209.106	113.818	20.083	1.00	85.05	A16S
ATOM	25307	O4*	C	A1200	207.823	113.827	19.434	1.00	85.05	A16S
ATOM	25308	C1*	C	A1200	206.845	113.796	20.440	1.00	85.05	A16S
ATOM	25309	N1	C	A1200	205.609	113.227	19.895	1.00	83.37	A16S
ATOM	25310	C6	C	A1200	205.592	112.627	18.672	1.00	83.37	A16S
ATOM	25311	C2	C	A1200	204.437	113.311	20.655	1.00	83.37	A16S
ATOM	25312	O2	C	A1200	204.470	113.861	21.770	1.00	83.37	A16S
ATOM	25313	N3	C	A1200	203.299	112.796	20.160	1.00	83.37	A16S
ATOM	25314	C4	C	A1200	203.295	112.219	18.963	1.00	83.37	A16S
ATOM	25315	N4	C	A1200	202.143	111.733	18.515	1.00	83.37	A16S
ATOM	25316	C5	C	A1200	204.467	112.116	18.173	1.00	83.37	A16S
ATOM	25317	C2*	C	A1200	207.412	112.947	21.580	1.00	85.05	A16S
ATOM	25318	O2*	C	A1200	207.070	113.493	22.839	1.00	85.05	A16S
ATOM	25319	C3*	C	A1200	208.917	112.920	21.297	1.00	85.05	A16S
ATOM	25320	O3*	C	A1200	209.655	113.476	22.380	1.00	85.05	A16S
ATOM	25321	P	A	A1201	211.031	112.790	22.848	1.00	55.78	A16S
ATOM	25322	O1P	A	A1201	210.985	111.359	22.382	1.00	50.04	A16S
ATOM	25323	O2P	A	A1201	211.209	113.072	24.306	1.00	50.04	A16S
ATOM	25324	O5*	A	A1201	212.157	113.628	22.069	1.00	55.78	A16S
ATOM	25325	C5*	A	A1201	212.404	115.024	22.406	1.00	55.78	A16S
ATOM	25326	C4*	A	A1201	213.400	115.681	21.449	1.00	55.78	A16S

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ATOM	25327	O4* A	A1201	214.739	115.180	21.668	1.00	55.78	A16S
ATOM	25328	C1* A	A1201	215.298	114.705	20.462	1.00	55.78	A16S
ATOM	25329	N9 A	A1201	215.821	113.364	20.734	1.00	50.04	A16S
ATOM	25330	C4 A	A1201	217.068	112.874	20.427	1.00	50.04	A16S
ATOM	25331	N3 A	A1201	218.071	113.523	19.810	1.00	50.04	A16S
ATOM	25332	C2 A	A1201	219.131	112.727	19.680	1.00	50.04	A16S
ATOM	25333	N1 A	A1201	219.289	111.452	20.069	1.00	50.04	A16S
ATOM	25334	C6 A	A1201	218.260	110.832	20.690	1.00	50.04	A16S
ATOM	25335	N6 A	A1201	218.415	109.566	21.079	1.00	50.04	A16S
ATOM	25336	C5 A	A1201	217.083	111.565	20.887	1.00	50.04	A16S
ATOM	25337	N7 A	A1201	215.872	111.234	21.471	1.00	50.04	A16S
ATOM	25338	C8 A	A1201	215.160	112.329	21.357	1.00	50.04	A16S
ATOM	25339	C2* A	A1201	214.189	114.643	19.416	1.00	55.78	A16S
ATOM	25340	O2* A	A1201	214.673	114.929	18.118	1.00	55.78	A16S
ATOM	25341	C3* A	A1201	213.139	115.620	19.951	1.00	55.78	A16S
ATOM	25342	O3* A	A1201	212.965	116.920	19.348	1.00	55.78	A16S
ATOM	25343	P G	A1202	214.207	117.922	19.157	1.00	61.57	A16S
ATOM	25344	O1P G	A1202	213.793	118.971	18.191	1.00	78.17	A16S
ATOM	25345	O2P G	A1202	215.442	117.141	18.900	1.00	78.17	A16S
ATOM	25346	O5* G	A1202	214.318	118.647	20.571	1.00	61.57	A16S
ATOM	25347	C5* G	A1202	215.599	118.853	21.204	1.00	61.57	A16S
ATOM	25348	C4* G	A1202	215.549	120.063	22.100	1.00	61.57	A16S
ATOM	25349	O4* G	A1202	215.395	121.257	21.282	1.00	61.57	A16S
ATOM	25350	C1* G	A1202	214.573	122.198	21.954	1.00	61.57	A16S
ATOM	25351	N9 G	A1202	213.379	122.445	21.147	1.00	78.17	A16S
ATOM	25352	C4 G	A1202	212.518	123.523	21.252	1.00	78.17	A16S
ATOM	25353	N3 G	A1202	212.632	124.553	22.115	1.00	78.17	A16S
ATOM	25354	C2 G	A1202	211.650	125.433	21.971	1.00	78.17	A16S
ATOM	25355	N2 G	A1202	211.606	126.525	22.747	1.00	78.17	A16S
ATOM	25356	N1 G	A1202	210.637	125.313	21.061	1.00	78.17	A16S
ATOM	25357	C6 G	A1202	210.487	124.261	20.171	1.00	78.17	A16S
ATOM	25358	O6 G	A1202	209.516	124.246	19.406	1.00	78.17	A16S
ATOM	25359	C5 G	A1202	211.542	123.307	20.303	1.00	78.17	A16S
ATOM	25360	N7 G	A1202	211.779	122.124	19.615	1.00	78.17	A16S
ATOM	25361	C8 G	A1202	212.876	121.649	20.147	1.00	78.17	A16S
ATOM	25362	C2* G	A1202	214.225	121.607	23.320	1.00	61.57	A16S
ATOM	25363	O2* G	A1202	215.135	122.111	24.277	1.00	61.57	A16S
ATOM	25364	C3* G	A1202	214.372	120.108	23.062	1.00	61.57	A16S
ATOM	25365	O3* G	A1202	214.552	119.311	24.246	1.00	61.57	A16S
ATOM	25366	P C	A1203	213.271	118.564	24.905	1.00	55.50	A16S
ATOM	25367	O1P C	A1203	213.667	117.957	26.206	1.00	80.61	A16S
ATOM	25368	O2P C	A1203	212.639	117.709	23.873	1.00	80.61	A16S
ATOM	25369	O5* C	A1203	212.262	119.763	25.207	1.00	55.50	A16S
ATOM	25370	C5* C	A1203	212.716	120.916	25.940	1.00	55.50	A16S
ATOM	25371	C4* C	A1203	211.669	122.005	25.955	1.00	55.50	A16S
ATOM	25372	O4* C	A1203	211.578	122.668	24.665	1.00	55.50	A16S
ATOM	25373	C1* C	A1203	210.236	123.056	24.430	1.00	55.50	A16S
ATOM	25374	N1 C	A1203	209.731	122.274	23.287	1.00	80.61	A16S
ATOM	25375	C6 C	A1203	210.286	121.064	22.970	1.00	80.61	A16S
ATOM	25376	C2 C	A1203	208.659	122.780	22.531	1.00	80.61	A16S
ATOM	25377	O2 C	A1203	208.158	123.875	22.846	1.00	80.61	A16S
ATOM	25378	N3 C	A1203	208.193	122.057	21.485	1.00	80.61	A16S
ATOM	25379	C4 C	A1203	208.746	120.878	21.188	1.00	80.61	A16S
ATOM	25380	N4 C	A1203	208.260	120.201	20.146	1.00	80.61	A16S
ATOM	25381	C5 C	A1203	209.826	120.339	21.944	1.00	80.61	A16S
ATOM	25382	C2* C	A1203	209.433	122.717	25.689	1.00	55.50	A16S
ATOM	25383	O2* C	A1203	209.342	123.848	26.540	1.00	55.50	A16S
ATOM	25384	C3* C	A1203	210.252	121.567	26.262	1.00	55.50	A16S
ATOM	25385	O3* C	A1203	210.035	121.326	27.642	1.00	55.50	A16S
ATOM	25386	P A	A1204	209.136	120.064	28.091	1.00	78.33	A16S
ATOM	25387	O1P A	A1204	209.282	119.876	29.562	1.00	84.11	A16S
ATOM	25388	O2P A	A1204	209.452	118.926	27.183	1.00	84.11	A16S
ATOM	25389	O5* A	A1204	207.654	120.580	27.804	1.00	78.33	A16S
ATOM	25390	C5* A	A1204	207.232	121.882	28.269	1.00	78.33	A16S
ATOM	25391	C4* A	A1204	205.943	122.289	27.602	1.00	78.33	A16S
ATOM	25392	O4* A	A1204	206.187	122.561	26.199	1.00	78.33	A16S
ATOM	25393	C1* A	A1204	205.085	122.105	25.424	1.00	78.33	A16S
ATOM	25394	N9 A	A1204	205.556	121.050	24.513	1.00	84.11	A16S
ATOM	25395	C4 A	A1204	204.837	120.464	23.494	1.00	84.11	A16S
ATOM	25396	N3 A	A1204	203.589	120.761	23.097	1.00	84.11	A16S
ATOM	25397	C2 A	A1204	203.210	119.960	22.108	1.00	84.11	A16S
ATOM	25398	N1 A	A1204	203.878	118.967	21.519	1.00	84.11	A16S
ATOM	25399	C6 A	A1204	205.126	118.689	21.944	1.00	84.11	A16S
ATOM	25400	N6 A	A1204	205.784	117.675	21.377	1.00	84.11	A16S
ATOM	25401	C5 A	A1204	205.654	119.477	22.976	1.00	84.11	A16S
ATOM	25402	N7 A	A1204	206.881	119.464	23.623	1.00	84.11	A16S
ATOM	25403	C8 A	A1204	206.777	120.415	24.517	1.00	84.11	A16S

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ATOM	25404	C2* A	A1204	204.017	121.599	26.401	1.00	78.33	A16S
ATOM	25405	O2* A	A1204	203.108	122.639	26.684	1.00	78.33	A16S
ATOM	25406	C3* A	A1204	204.854	121.231	27.618	1.00	78.33	A16S
ATOM	25407	O3* A	A1204	204.104	121.268	28.824	1.00	78.33	A16S
ATOM	25408	P U	A1205	203.679	119.889	29.541	1.00	74.23	A16S
ATOM	25409	O1P U	A1205	202.938	120.262	30.780	1.00	85.05	A16S
ATOM	25410	O2P U	A1205	204.857	118.980	29.632	1.00	85.05	A16S
ATOM	25411	O5* U	A1205	202.638	119.236	28.529	1.00	74.23	A16S
ATOM	25412	C5* U	A1205	201.345	119.826	28.337	1.00	74.23	A16S
ATOM	25413	C4* U	A1205	200.586	119.094	27.265	1.00	74.23	A16S
ATOM	25414	O4* U	A1205	201.271	119.265	26.003	1.00	74.23	A16S
ATOM	25415	C1* U	A1205	201.103	118.099	25.216	1.00	74.23	A16S
ATOM	25416	N1 U	A1205	202.424	117.540	24.888	1.00	85.05	A16S
ATOM	25417	C6 U	A1205	203.532	117.807	25.654	1.00	85.05	A16S
ATOM	25418	C2 U	A1205	202.508	116.714	23.780	1.00	85.05	A16S
ATOM	25419	O2 U	A1205	201.553	116.470	23.056	1.00	85.05	A16S
ATOM	25420	N3 U	A1205	203.750	116.186	23.547	1.00	85.05	A16S
ATOM	25421	C4 U	A1205	204.890	116.399	24.283	1.00	85.05	A16S
ATOM	25422	O4 U	A1205	205.929	115.819	23.967	1.00	85.05	A16S
ATOM	25423	C5 U	A1205	204.727	117.281	25.397	1.00	85.05	A16S
ATOM	25424	C2* U	A1205	200.243	117.112	26.007	1.00	74.23	A16S
ATOM	25425	O2* U	A1205	198.900	117.226	25.578	1.00	74.23	A16S
ATOM	25426	C3* U	A1205	200.459	117.590	27.437	1.00	74.23	A16S
ATOM	25427	O3* U	A1205	199.370	117.242	28.280	1.00	74.23	A16S
ATOM	25428	P G	A1206	199.226	115.729	28.816	1.00	68.73	A16S
ATOM	25429	O1P G	A1206	198.550	115.803	30.137	1.00	79.55	A16S
ATOM	25430	O2P G	A1206	200.541	115.048	28.702	1.00	79.55	A16S
ATOM	25431	O5* G	A1206	198.238	115.036	27.776	1.00	68.73	A16S
ATOM	25432	C5* G	A1206	196.873	115.483	27.619	1.00	68.73	A16S
ATOM	25433	C4* G	A1206	196.119	114.528	26.727	1.00	68.73	A16S
ATOM	25434	O4* G	A1206	196.519	114.716	25.346	1.00	68.73	A16S
ATOM	25435	C1* G	A1206	196.593	113.452	24.691	1.00	68.73	A16S
ATOM	25436	N9 G	A1206	197.974	113.232	24.262	1.00	79.55	A16S
ATOM	25437	C4 G	A1206	198.439	112.209	23.460	1.00	79.55	A16S
ATOM	25438	N3 G	A1206	197.692	111.243	22.886	1.00	79.55	A16S
ATOM	25439	C2 G	A1206	198.432	110.386	22.201	1.00	79.55	A16S
ATOM	25440	N2 G	A1206	197.855	109.362	21.562	1.00	79.55	A16S
ATOM	25441	N1 G	A1206	199.793	110.469	22.090	1.00	79.55	A16S
ATOM	25442	C6 G	A1206	200.582	111.454	22.671	1.00	79.55	A16S
ATOM	25443	O6 G	A1206	201.810	111.430	22.518	1.00	79.55	A16S
ATOM	25444	C5 G	A1206	199.801	112.383	23.404	1.00	79.55	A16S
ATOM	25445	N7 G	A1206	200.185	113.506	24.122	1.00	79.55	A16S
ATOM	25446	C8 G	A1206	199.072	113.980	24.605	1.00	79.55	A16S
ATOM	25447	C2* G	A1206	196.136	112.380	25.686	1.00	68.73	A16S
ATOM	25448	O2* G	A1206	194.775	112.050	25.471	1.00	68.73	A16S
ATOM	25449	C3* G	A1206	196.404	113.066	27.021	1.00	68.73	A16S
ATOM	25450	O3* G	A1206	195.587	112.576	28.064	1.00	68.73	A16S
ATOM	25451	P G	A1207	196.146	111.426	29.029	1.00	75.20	A16S
ATOM	25452	O1P G	A1207	195.080	111.153	30.026	1.00	79.64	A16S
ATOM	25453	O2P G	A1207	197.497	111.848	29.487	1.00	79.64	A16S
ATOM	25454	O5* G	A1207	196.288	110.147	28.086	1.00	75.20	A16S
ATOM	25455	C5* G	A1207	195.145	109.602	27.386	1.00	75.20	A16S
ATOM	25456	C4* G	A1207	195.579	108.507	26.433	1.00	75.20	A16S
ATOM	25457	O4* G	A1207	196.348	109.072	25.334	1.00	75.20	A16S
ATOM	25458	C1* G	A1207	197.376	108.162	24.948	1.00	75.20	A16S
ATOM	25459	N9 G	A1207	198.678	108.825	25.069	1.00	79.64	A16S
ATOM	25460	C4 G	A1207	199.876	108.399	24.524	1.00	79.64	A16S
ATOM	25461	N3 G	A1207	200.064	107.286	23.785	1.00	79.64	A16S
ATOM	25462	C2 G	A1207	201.321	107.156	23.399	1.00	79.64	A16S
ATOM	25463	N2 G	A1207	201.691	106.096	22.678	1.00	79.64	A16S
ATOM	25464	N1 G	A1207	202.311	108.054	23.697	1.00	79.64	A16S
ATOM	25465	C6 G	A1207	202.143	109.209	24.451	1.00	79.64	A16S
ATOM	25466	O6 G	A1207	203.105	109.964	24.648	1.00	79.64	A16S
ATOM	25467	C5 G	A1207	200.804	109.351	24.892	1.00	79.64	A16S
ATOM	25468	N7 G	A1207	200.214	110.343	25.664	1.00	79.64	A16S
ATOM	25469	C8 G	A1207	198.959	109.993	25.743	1.00	79.64	A16S
ATOM	25470	C2* G	A1207	197.259	106.917	25.831	1.00	75.20	A16S
ATOM	25471	O2* G	A1207	196.582	105.887	25.146	1.00	75.20	A16S
ATOM	25472	C3* G	A1207	196.494	107.454	27.037	1.00	75.20	A16S
ATOM	25473	O3* G	A1207	195.790	106.434	27.728	1.00	75.20	A16S
ATOM	25474	P C	A1208	196.568	105.544	28.820	1.00	67.89	A16S
ATOM	25475	O1P C	A1208	195.611	104.565	29.402	1.00	88.13	A16S
ATOM	25476	O2P C	A1208	197.307	106.475	29.722	1.00	88.13	A16S
ATOM	25477	O5* C	A1208	197.639	104.740	27.958	1.00	67.89	A16S
ATOM	25478	C5* C	A1208	197.227	103.780	26.978	1.00	67.89	A16S
ATOM	25479	C4* C	A1208	198.435	103.159	26.329	1.00	67.89	A16S
ATOM	25480	O4* C	A1208	199.132	104.164	25.549	1.00	67.89	A16S

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ATOM	25481	C1*	C	A1208	200.531	103.928	25.615	1.00	67.89	A16S
ATOM	25482	N1	C	A1208	201.194	105.121	26.179	1.00	88.13	A16S
ATOM	25483	C6	C	A1208	200.492	106.038	26.910	1.00	88.13	A16S
ATOM	25484	C2	C	A1208	202.568	105.300	25.957	1.00	88.13	A16S
ATOM	25485	O2	C	A1208	203.187	104.458	25.287	1.00	88.13	A16S
ATOM	25486	N3	C	A1208	203.186	106.384	26.477	1.00	88.13	A16S
ATOM	25487	C4	C	A1208	202.489	107.272	27.189	1.00	88.13	A16S
ATOM	25488	N4	C	A1208	203.141	108.331	27.683	1.00	88.13	A16S
ATOM	25489	C5	C	A1208	201.093	107.116	27.428	1.00	88.13	A16S
ATOM	25490	C2*	C	A1208	200.760	102.673	26.462	1.00	67.89	A16S
ATOM	25491	O2*	C	A1208	200.894	101.530	25.640	1.00	67.89	A16S
ATOM	25492	C3*	C	A1208	199.487	102.627	27.293	1.00	67.89	A16S
ATOM	25493	O3*	C	A1208	199.204	101.310	27.755	1.00	67.89	A16S
ATOM	25494	P	C	A1209	199.584	100.898	29.267	1.00	98.07	A16S
ATOM	25495	O1P	C	A1209	198.921	99.597	29.560	1.00	80.34	A16S
ATOM	25496	O2P	C	A1209	199.316	102.078	30.142	1.00	80.34	A16S
ATOM	25497	O5*	C	A1209	201.161	100.649	29.228	1.00	98.07	A16S
ATOM	25498	C5*	C	A1209	201.730	99.595	28.419	1.00	98.07	A16S
ATOM	25499	C4*	C	A1209	203.218	99.811	28.227	1.00	98.07	A16S
ATOM	25500	O4*	C	A1209	203.441	101.095	27.583	1.00	98.07	A16S
ATOM	25501	C1*	C	A1209	204.660	101.657	28.042	1.00	98.07	A16S
ATOM	25502	N1	C	A1209	204.388	102.971	28.665	1.00	80.34	A16S
ATOM	25503	C6	C	A1209	203.134	103.515	28.651	1.00	80.34	A16S
ATOM	25504	C2	C	A1209	205.450	103.665	29.280	1.00	80.34	A16S
ATOM	25505	O2	C	A1209	206.586	103.161	29.279	1.00	80.34	A16S
ATOM	25506	N3	C	A1209	205.215	104.866	29.854	1.00	80.34	A16S
ATOM	25507	C4	C	A1209	203.993	105.389	29.825	1.00	80.34	A16S
ATOM	25508	N4	C	A1209	203.819	106.590	30.389	1.00	80.34	A16S
ATOM	25509	C5	C	A1209	202.894	104.710	29.213	1.00	80.34	A16S
ATOM	25510	C2*	C	A1209	205.290	100.660	29.014	1.00	98.07	A16S
ATOM	25511	O2*	C	A1209	206.226	99.868	28.315	1.00	98.07	A16S
ATOM	25512	C3*	C	A1209	204.075	99.871	29.482	1.00	98.07	A16S
ATOM	25513	O3*	C	A1209	204.446	98.583	29.962	1.00	98.07	A16S
ATOM	25514	P	C	A1210	204.660	98.351	31.545	1.00	85.31	A16S
ATOM	25515	O1P	C	A1210	204.795	96.878	31.743	1.00	80.41	A16S
ATOM	25516	O2P	C	A1210	203.609	99.106	32.293	1.00	80.41	A16S
ATOM	25517	O5*	C	A1210	206.062	99.041	31.873	1.00	85.31	A16S
ATOM	25518	C5*	C	A1210	207.286	98.479	31.377	1.00	85.31	A16S
ATOM	25519	C4*	C	A1210	208.476	99.262	31.879	1.00	85.31	A16S
ATOM	25520	O4*	C	A1210	208.418	100.628	31.396	1.00	85.31	A16S
ATOM	25521	C1*	C	A1210	209.064	101.482	32.321	1.00	85.31	A16S
ATOM	25522	N1	C	A1210	208.147	102.562	32.719	1.00	80.41	A16S
ATOM	25523	C6	C	A1210	206.818	102.534	32.397	1.00	80.41	A16S
ATOM	25524	C2	C	A1210	208.674	103.636	33.448	1.00	80.41	A16S
ATOM	25525	O2	C	A1210	209.887	103.629	33.733	1.00	80.41	A16S
ATOM	25526	N3	C	A1210	207.858	104.647	33.827	1.00	80.41	A16S
ATOM	25527	C4	C	A1210	206.563	104.611	33.511	1.00	80.41	A16S
ATOM	25528	N4	C	A1210	205.796	105.632	33.914	1.00	80.41	A16S
ATOM	25529	C5	C	A1210	205.996	103.527	32.769	1.00	80.41	A16S
ATOM	25530	C2*	C	A1210	209.520	100.637	33.509	1.00	85.31	A16S
ATOM	25531	O2*	C	A1210	210.901	100.363	33.373	1.00	85.31	A16S
ATOM	25532	C3*	C	A1210	208.617	99.413	33.381	1.00	85.31	A16S
ATOM	25533	O3*	C	A1210	209.170	98.256	33.987	1.00	85.31	A16S
ATOM	25534	P	U	A1211	208.497	97.669	35.327	1.00	108.65	A16S
ATOM	25535	O1P	U	A1211	208.040	96.287	35.015	1.00	73.09	A16S
ATOM	25536	O2P	U	A1211	207.520	98.671	35.846	1.00	73.09	A16S
ATOM	25537	O5*	U	A1211	209.710	97.588	36.357	1.00	108.65	A16S
ATOM	25538	C5*	U	A1211	209.572	98.070	37.705	1.00	108.65	A16S
ATOM	25539	C4*	U	A1211	210.227	99.422	37.841	1.00	108.65	A16S
ATOM	25540	O4*	U	A1211	209.538	100.384	37.011	1.00	108.65	A16S
ATOM	25541	C1*	U	A1211	209.789	101.676	37.521	1.00	108.65	A16S
ATOM	25542	N1	U	A1211	208.619	102.554	37.321	1.00	73.09	A16S
ATOM	25543	C6	U	A1211	207.452	102.103	36.733	1.00	73.09	A16S
ATOM	25544	C2	U	A1211	208.740	103.890	37.724	1.00	73.09	A16S
ATOM	25545	O2	U	A1211	209.738	104.340	38.275	1.00	73.09	A16S
ATOM	25546	N3	U	A1211	207.648	104.683	37.458	1.00	73.09	A16S
ATOM	25547	C4	U	A1211	206.467	104.303	36.857	1.00	73.09	A16S
ATOM	25548	O4	U	A1211	205.588	105.155	36.663	1.00	73.09	A16S
ATOM	25549	C5	U	A1211	206.401	102.910	36.491	1.00	73.09	A16S
ATOM	25550	C2*	U	A1211	210.320	101.535	38.952	1.00	108.65	A16S
ATOM	25551	O2*	U	A1211	211.677	101.922	38.969	1.00	108.65	A16S
ATOM	25552	C3*	U	A1211	210.164	100.042	39.227	1.00	108.65	A16S
ATOM	25553	O3*	U	A1211	211.277	99.613	40.008	1.00	108.65	A16S
ATOM	25554	P	U	A1212	211.143	98.336	40.968	1.00	150.03	A16S
ATOM	25555	O1P	U	A1212	209.702	98.122	41.248	1.00	149.39	A16S
ATOM	25556	O2P	U	A1212	212.084	98.552	42.095	1.00	149.39	A16S
ATOM	25557	O5*	U	A1212	211.652	97.124	40.062	1.00	150.03	A16S

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ATOM	25558	C5* U	A1212	212.729	96.256	40.484	1.00150.03	A16S
ATOM	25559	C4* U	A1212	214.063	96.923	40.228	1.00150.03	A16S
ATOM	25560	O4* U	A1212	214.351	97.848	41.310	1.00150.03	A16S
ATOM	25561	C1* U	A1212	215.743	97.877	41.563	1.00150.03	A16S
ATOM	25562	N1 U	A1212	215.971	97.547	42.980	1.00149.39	A16S
ATOM	25563	C6 U	A1212	216.379	96.290	43.375	1.00149.39	A16S
ATOM	25564	C2 U	A1212	215.765	98.553	43.917	1.00149.39	A16S
ATOM	25565	O2 U	A1212	215.401	99.681	43.622	1.00149.39	A16S
ATOM	25566	N3 U	A1212	216.002	98.189	45.216	1.00149.39	A16S
ATOM	25567	C4 U	A1212	216.413	96.957	45.671	1.00149.39	A16S
ATOM	25568	O4 U	A1212	216.584	96.788	46.879	1.00149.39	A16S
ATOM	25569	C5 U	A1212	216.602	95.971	44.650	1.00149.39	A16S
ATOM	25570	C2* U	A1212	216.422	96.945	40.559	1.00150.03	A16S
ATOM	25571	O2* U	A1212	216.898	97.741	39.496	1.00150.03	A16S
ATOM	25572	C3* U	A1212	215.276	96.009	40.169	1.00150.03	A16S
ATOM	25573	O3* U	A1212	215.365	95.459	38.848	1.00150.03	A16S
ATOM	25574	P A	A1213	216.789	95.026	38.234	1.00155.84	A16S
ATOM	25575	O1P A	A1213	216.514	93.969	37.227	1.00106.56	A16S
ATOM	25576	O2P A	A1213	217.738	94.746	39.349	1.00106.56	A16S
ATOM	25577	O5* A	A1213	217.288	96.352	37.493	1.00155.84	A16S
ATOM	25578	C5* A	A1213	217.042	96.601	36.081	1.00155.84	A16S
ATOM	25579	C4* A	A1213	215.759	97.385	35.893	1.00155.84	A16S
ATOM	25580	O4* A	A1213	215.519	98.242	37.025	1.00155.84	A16S
ATOM	25581	C1* A	A1213	214.625	99.254	36.632	1.00155.84	A16S
ATOM	25582	N9 A	A1213	214.910	100.478	37.378	1.00106.56	A16S
ATOM	25583	C4 A	A1213	214.221	101.662	37.275	1.00106.56	A16S
ATOM	25584	N3 A	A1213	213.210	101.948	36.437	1.00106.56	A16S
ATOM	25585	C2 A	A1213	212.774	103.187	36.638	1.00106.56	A16S
ATOM	25586	N1 A	A1213	213.200	104.104	37.518	1.00106.56	A16S
ATOM	25587	C6 A	A1213	214.217	103.782	38.344	1.00106.56	A16S
ATOM	25588	N6 A	A1213	214.644	104.692	39.222	1.00106.56	A16S
ATOM	25589	C5 A	A1213	214.770	102.499	38.228	1.00106.56	A16S
ATOM	25590	N7 A	A1213	215.806	101.868	38.897	1.00106.56	A16S
ATOM	25591	C8 A	A1213	215.857	100.680	38.350	1.00106.56	A16S
ATOM	25592	C2* A	A1213	214.613	99.340	35.103	1.00155.84	A16S
ATOM	25593	O2* A	A1213	213.322	98.983	34.654	1.00155.84	A16S
ATOM	25594	C3* A	A1213	215.684	98.324	34.695	1.00155.84	A16S
ATOM	25595	O3* A	A1213	215.224	97.610	33.554	1.00155.84	A16S
ATOM	25596	P C	A1214	215.746	98.004	32.088	1.00 95.78	A16S
ATOM	25597	O1P C	A1214	214.943	97.190	31.136	1.00 73.84	A16S
ATOM	25598	O2P C	A1214	217.232	97.881	32.098	1.00 73.84	A16S
ATOM	25599	O5* C	A1214	215.336	99.537	31.883	1.00 95.78	A16S
ATOM	25600	C5* C	A1214	216.150	100.433	31.073	1.00 95.78	A16S
ATOM	25601	C4* C	A1214	215.286	101.470	30.381	1.00 95.78	A16S
ATOM	25602	O4* C	A1214	214.437	100.816	29.415	1.00 95.78	A16S
ATOM	25603	C1* C	A1214	213.232	101.540	29.283	1.00 95.78	A16S
ATOM	25604	N1 C	A1214	212.104	100.590	29.166	1.00 73.84	A16S
ATOM	25605	C6 C	A1214	212.292	99.261	29.429	1.00 73.84	A16S
ATOM	25606	C2 C	A1214	210.832	101.057	28.740	1.00 73.84	A16S
ATOM	25607	O2 C	A1214	210.658	102.269	28.546	1.00 73.84	A16S
ATOM	25608	N3 C	A1214	209.831	100.165	28.556	1.00 73.84	A16S
ATOM	25609	C4 C	A1214	210.043	98.865	28.792	1.00 73.84	A16S
ATOM	25610	N4 C	A1214	209.032	98.010	28.583	1.00 73.84	A16S
ATOM	25611	C5 C	A1214	211.304	98.374	29.252	1.00 73.84	A16S
ATOM	25612	C2* C	A1214	213.179	102.626	30.362	1.00 95.78	A16S
ATOM	25613	O2* C	A1214	213.348	103.896	29.756	1.00 95.78	A16S
ATOM	25614	C3* C	A1214	214.338	102.241	31.289	1.00 95.78	A16S
ATOM	25615	O3* C	A1214	214.892	103.454	31.843	1.00 95.78	A16S
ATOM	25616	P G	A1215	216.380	103.968	31.442	1.00 90.76	A16S
ATOM	25617	O1P G	A1215	216.331	104.416	30.019	1.00 97.37	A16S
ATOM	25618	O2P G	A1215	217.407	102.978	31.872	1.00 97.37	A16S
ATOM	25619	O5* G	A1215	216.569	105.289	32.318	1.00 90.76	A16S
ATOM	25620	C5* G	A1215	215.538	106.304	32.344	1.00 90.76	A16S
ATOM	25621	C4* G	A1215	215.240	106.736	33.769	1.00 90.76	A16S
ATOM	25622	O4* G	A1215	214.847	105.591	34.571	1.00 90.76	A16S
ATOM	25623	C1* G	A1215	215.344	105.729	35.892	1.00 90.76	A16S
ATOM	25624	N9 G	A1215	216.229	104.597	36.169	1.00 97.37	A16S
ATOM	25625	C4 G	A1215	217.115	104.479	37.217	1.00 97.37	A16S
ATOM	25626	N3 G	A1215	217.323	105.394	38.188	1.00 97.37	A16S
ATOM	25627	C2 G	A1215	218.223	104.985	39.067	1.00 97.37	A16S
ATOM	25628	N2 G	A1215	218.539	105.768	40.109	1.00 97.37	A16S
ATOM	25629	N1 G	A1215	218.879	103.778	38.990	1.00 97.37	A16S
ATOM	25630	C6 G	A1215	218.691	102.824	37.993	1.00 97.37	A16S
ATOM	25631	O6 G	A1215	219.352	101.774	38.005	1.00 97.37	A16S
ATOM	25632	C5 G	A1215	217.713	103.243	37.053	1.00 97.37	A16S
ATOM	25633	N7 G	A1215	217.211	102.595	35.931	1.00 97.37	A16S
ATOM	25634	C8 G	A1215	216.340	103.434	35.438	1.00 97.37	A16S

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ATOM	25635	C2*	G	A1215	216.019	107.098	35.986	1.00	90.76	A16S
ATOM	25636	O2*	G	A1215	215.064	108.015	36.490	1.00	90.76	A16S
ATOM	25637	C3*	G	A1215	216.398	107.353	34.528	1.00	90.76	A16S
ATOM	25638	O3*	G	A1215	216.509	108.729	34.202	1.00	90.76	A16S
ATOM	25639	P	G	A1216	217.933	109.318	33.755	1.00	81.84	A16S
ATOM	25640	O1P	G	A1216	217.778	110.792	33.553	1.00	90.60	A16S
ATOM	25641	O2P	G	A1216	218.443	108.468	32.645	1.00	90.60	A16S
ATOM	25642	O5*	G	A1216	218.842	109.079	35.041	1.00	81.84	A16S
ATOM	25643	C5*	G	A1216	218.555	109.765	36.272	1.00	81.84	A16S
ATOM	25644	C4*	G	A1216	219.578	109.421	37.326	1.00	81.84	A16S
ATOM	25645	O4*	G	A1216	219.352	108.094	37.865	1.00	81.84	A16S
ATOM	25646	C1*	G	A1216	220.591	107.543	38.280	1.00	81.84	A16S
ATOM	25647	N9	G	A1216	220.775	106.240	37.651	1.00	90.60	A16S
ATOM	25648	C4	G	A1216	221.652	105.266	38.059	1.00	90.60	A16S
ATOM	25649	N3	G	A1216	222.515	105.363	39.092	1.00	90.60	A16S
ATOM	25650	C2	G	A1216	223.215	104.254	39.255	1.00	90.60	A16S
ATOM	25651	N2	G	A1216	224.123	104.186	40.237	1.00	90.60	A16S
ATOM	25652	N1	G	A1216	223.072	103.133	38.467	1.00	90.60	A16S
ATOM	25653	C6	G	A1216	222.181	103.011	37.399	1.00	90.60	A16S
ATOM	25654	O6	G	A1216	222.111	101.945	36.762	1.00	90.60	A16S
ATOM	25655	C5	G	A1216	221.439	104.201	37.208	1.00	90.60	A16S
ATOM	25656	N7	G	A1216	220.470	104.510	36.267	1.00	90.60	A16S
ATOM	25657	C8	G	A1216	220.108	105.729	36.564	1.00	90.60	A16S
ATOM	25658	C2*	G	A1216	221.696	108.540	37.939	1.00	81.84	A16S
ATOM	25659	O2*	G	A1216	222.007	109.246	39.122	1.00	81.84	A16S
ATOM	25660	C3*	G	A1216	221.023	109.397	36.870	1.00	81.84	A16S
ATOM	25661	O3*	G	A1216	221.553	110.706	36.774	1.00	81.84	A16S
ATOM	25662	P	C	A1217	222.854	110.961	35.875	1.00	92.90	A16S
ATOM	25663	O1P	C	A1217	222.961	112.432	35.682	1.00	76.44	A16S
ATOM	25664	O2P	C	A1217	222.814	110.065	34.699	1.00	76.44	A16S
ATOM	25665	O5*	C	A1217	224.045	110.454	36.798	1.00	92.90	A16S
ATOM	25666	C5*	C	A1217	224.307	111.086	38.062	1.00	92.90	A16S
ATOM	25667	C4*	C	A1217	225.396	110.350	38.802	1.00	92.90	A16S
ATOM	25668	O4*	C	A1217	224.926	109.040	39.215	1.00	92.90	A16S
ATOM	25669	C1*	C	A1217	226.008	108.122	39.197	1.00	92.90	A16S
ATOM	25670	N1	C	A1217	225.683	107.007	38.293	1.00	76.44	A16S
ATOM	25671	C6	C	A1217	224.737	107.134	37.311	1.00	76.44	A16S
ATOM	25672	C2	C	A1217	226.377	105.806	38.451	1.00	76.44	A16S
ATOM	25673	O2	C	A1217	227.226	105.720	39.354	1.00	76.44	A16S
ATOM	25674	N3	C	A1217	226.111	104.773	37.620	1.00	76.44	A16S
ATOM	25675	C4	C	A1217	225.194	104.906	36.661	1.00	76.44	A16S
ATOM	25676	N4	C	A1217	224.975	103.861	35.858	1.00	76.44	A16S
ATOM	25677	C5	C	A1217	224.464	106.118	36.480	1.00	76.44	A16S
ATOM	25678	C2*	C	A1217	227.257	108.876	38.742	1.00	92.90	A16S
ATOM	25679	O2*	C	A1217	228.013	109.263	39.870	1.00	92.90	A16S
ATOM	25680	C3*	C	A1217	226.648	110.057	38.001	1.00	92.90	A16S
ATOM	25681	O3*	C	A1217	227.519	111.166	37.943	1.00	92.90	A16S
ATOM	25682	P	C	A1218	228.536	111.294	36.708	1.00	81.95	A16S
ATOM	25683	O1P	C	A1218	229.305	112.561	36.884	1.00	85.76	A16S
ATOM	25684	O2P	C	A1218	227.776	111.061	35.439	1.00	85.76	A16S
ATOM	25685	O5*	C	A1218	229.531	110.070	36.933	1.00	81.95	A16S
ATOM	25686	C5*	C	A1218	230.348	110.011	38.108	1.00	81.95	A16S
ATOM	25687	C4*	C	A1218	231.203	108.775	38.090	1.00	81.95	A16S
ATOM	25688	O4*	C	A1218	230.372	107.595	38.201	1.00	81.95	A16S
ATOM	25689	C1*	C	A1218	230.968	106.533	37.487	1.00	81.95	A16S
ATOM	25690	N1	C	A1218	230.016	106.036	36.485	1.00	85.76	A16S
ATOM	25691	C6	C	A1218	229.023	106.834	35.981	1.00	85.76	A16S
ATOM	25692	C2	C	A1218	230.150	104.719	36.049	1.00	85.76	A16S
ATOM	25693	O2	C	A1218	231.067	104.026	36.521	1.00	85.76	A16S
ATOM	25694	N3	C	A1218	229.286	104.232	35.128	1.00	85.76	A16S
ATOM	25695	C4	C	A1218	228.317	105.014	34.644	1.00	85.76	A16S
ATOM	25696	N4	C	A1218	227.482	104.487	33.742	1.00	85.76	A16S
ATOM	25697	C5	C	A1218	228.161	106.370	35.067	1.00	85.76	A16S
ATOM	25698	C2*	C	A1218	232.265	107.050	36.864	1.00	81.95	A16S
ATOM	25699	O2*	C	A1218	233.333	106.692	37.708	1.00	81.95	A16S
ATOM	25700	C3*	C	A1218	232.020	108.553	36.832	1.00	81.95	A16S
ATOM	25701	O3*	C	A1218	233.223	109.307	36.880	1.00	81.95	A16S
ATOM	25702	P	U	A1219	233.915	109.798	35.514	1.00	68.57	A16S
ATOM	25703	O1P	U	A1219	234.852	110.896	35.879	1.00	92.09	A16S
ATOM	25704	O2P	U	A1219	232.864	110.052	34.494	1.00	92.09	A16S
ATOM	25705	O5*	U	A1219	234.781	108.531	35.091	1.00	68.57	A16S
ATOM	25706	C5*	U	A1219	235.848	108.071	35.939	1.00	68.57	A16S
ATOM	25707	C4*	U	A1219	236.293	106.690	35.529	1.00	68.57	A16S
ATOM	25708	O4*	U	A1219	235.212	105.744	35.740	1.00	68.57	A16S
ATOM	25709	C1*	U	A1219	235.210	104.770	34.705	1.00	68.57	A16S
ATOM	25710	N1	U	A1219	233.985	104.962	33.910	1.00	92.09	A16S
ATOM	25711	C6	U	A1219	233.459	106.227	33.723	1.00	92.09	A16S

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ATOM	25712	C2	U	A1219	233.382	103.849	33.342	1.00	92.09	A16S
ATOM	25713	O2	U	A1219	233.811	102.716	33.477	1.00	92.09	A16S
ATOM	25714	N3	U	A1219	232.252	104.121	32.602	1.00	92.09	A16S
ATOM	25715	C4	U	A1219	231.679	105.368	32.374	1.00	92.09	A16S
ATOM	25716	O4	U	A1219	230.662	105.458	31.680	1.00	92.09	A16S
ATOM	25717	C5	U	A1219	232.364	106.459	32.994	1.00	92.09	A16S
ATOM	25718	C2*	U	A1219	236.447	105.031	33.847	1.00	68.57	A16S
ATOM	25719	O2*	U	A1219	237.551	104.278	34.313	1.00	68.57	A16S
ATOM	25720	C3*	U	A1219	236.640	106.521	34.062	1.00	68.57	A16S
ATOM	25721	O3*	U	A1219	237.936	106.958	33.728	1.00	68.57	A16S
ATOM	25722	P	G	A1220	238.183	107.599	32.280	1.00	77.85	A16S
ATOM	25723	O1P	G	A1220	239.616	108.010	32.242	1.00	65.44	A16S
ATOM	25724	O2P	G	A1220	237.114	108.621	32.040	1.00	65.44	A16S
ATOM	25725	O5*	G	A1220	237.985	106.355	31.302	1.00	77.85	A16S
ATOM	25726	C5*	G	A1220	238.955	105.296	31.302	1.00	77.85	A16S
ATOM	25727	C4*	G	A1220	238.533	104.158	30.403	1.00	77.85	A16S
ATOM	25728	O4*	G	A1220	237.396	103.453	30.970	1.00	77.85	A16S
ATOM	25729	C1*	G	A1220	236.608	102.900	29.923	1.00	77.85	A16S
ATOM	25730	N9	G	A1220	235.303	103.563	29.897	1.00	65.44	A16S
ATOM	25731	C4	G	A1220	234.185	103.107	29.235	1.00	65.44	A16S
ATOM	25732	N3	G	A1220	234.090	101.947	28.545	1.00	65.44	A16S
ATOM	25733	C2	G	A1220	232.914	101.813	27.962	1.00	65.44	A16S
ATOM	25734	N2	G	A1220	232.665	100.735	27.212	1.00	65.44	A16S
ATOM	25735	N1	G	A1220	231.901	102.732	28.064	1.00	65.44	A16S
ATOM	25736	C6	G	A1220	231.974	103.929	28.770	1.00	65.44	A16S
ATOM	25737	O6	G	A1220	231.005	104.691	28.788	1.00	65.44	A16S
ATOM	25738	C5	G	A1220	233.239	104.094	29.392	1.00	65.44	A16S
ATOM	25739	N7	G	A1220	233.735	105.137	30.164	1.00	65.44	A16S
ATOM	25740	C8	G	A1220	234.955	104.774	30.453	1.00	65.44	A16S
ATOM	25741	C2*	G	A1220	237.322	103.225	28.613	1.00	77.85	A16S
ATOM	25742	O2*	G	A1220	238.193	102.171	28.248	1.00	77.85	A16S
ATOM	25743	C3*	G	A1220	238.078	104.486	28.993	1.00	77.85	A16S
ATOM	25744	O3*	G	A1220	239.110	104.755	28.073	1.00	77.85	A16S
ATOM	25745	P	G	A1221	238.766	105.603	26.755	1.00	77.75	A16S
ATOM	25746	O1P	G	A1221	240.050	105.851	26.050	1.00	64.03	A16S
ATOM	25747	O2P	G	A1221	237.905	106.761	27.153	1.00	64.03	A16S
ATOM	25748	O5*	G	A1221	237.892	104.593	25.883	1.00	77.75	A16S
ATOM	25749	C5*	G	A1221	238.459	103.350	25.414	1.00	77.75	A16S
ATOM	25750	C4*	G	A1221	237.410	102.503	24.723	1.00	77.75	A16S
ATOM	25751	O4*	G	A1221	236.350	102.176	25.663	1.00	77.75	A16S
ATOM	25752	C1*	G	A1221	235.101	102.133	24.990	1.00	77.75	A16S
ATOM	25753	N9	G	A1221	234.323	103.296	25.402	1.00	64.03	A16S
ATOM	25754	C4	G	A1221	232.994	103.535	25.129	1.00	64.03	A16S
ATOM	25755	N3	G	A1221	232.154	102.700	24.484	1.00	64.03	A16S
ATOM	25756	C2	G	A1221	230.957	103.237	24.311	1.00	64.03	A16S
ATOM	25757	N2	G	A1221	230.002	102.549	23.655	1.00	64.03	A16S
ATOM	25758	N1	G	A1221	230.608	104.488	24.756	1.00	64.03	A16S
ATOM	25759	C6	G	A1221	231.455	105.365	25.425	1.00	64.03	A16S
ATOM	25760	O6	G	A1221	231.043	106.487	25.766	1.00	64.03	A16S
ATOM	25761	C5	G	A1221	232.745	104.803	25.608	1.00	64.03	A16S
ATOM	25762	N7	G	A1221	233.878	105.333	26.207	1.00	64.03	A16S
ATOM	25763	C8	G	A1221	234.783	104.401	26.074	1.00	64.03	A16S
ATOM	25764	C2*	G	A1221	235.398	102.299	23.504	1.00	77.75	A16S
ATOM	25765	O2*	G	A1221	235.570	101.032	22.903	1.00	77.75	A16S
ATOM	25766	C3*	G	A1221	236.672	103.129	23.552	1.00	77.75	A16S
ATOM	25767	O3*	G	A1221	237.389	103.104	22.330	1.00	77.75	A16S
ATOM	25768	P	G	A1222	237.062	104.209	21.202	1.00	64.25	A16S
ATOM	25769	O1P	G	A1222	237.863	103.843	20.004	1.00	93.92	A16S
ATOM	25770	O2P	G	A1222	237.193	105.571	21.779	1.00	93.92	A16S
ATOM	25771	O5*	G	A1222	235.516	103.981	20.879	1.00	64.25	A16S
ATOM	25772	C5*	G	A1222	235.053	102.742	20.299	1.00	64.25	A16S
ATOM	25773	C4*	G	A1222	233.607	102.862	19.889	1.00	64.25	A16S
ATOM	25774	O4*	G	A1222	232.794	103.072	21.074	1.00	64.25	A16S
ATOM	25775	C1*	G	A1222	231.699	103.924	20.768	1.00	64.25	A16S
ATOM	25776	N9	G	A1222	231.812	105.141	21.572	1.00	93.92	A16S
ATOM	25777	C4	G	A1222	230.849	106.115	21.711	1.00	93.92	A16S
ATOM	25778	N3	G	A1222	229.619	106.100	21.151	1.00	93.92	A16S
ATOM	25779	C2	G	A1222	228.931	107.191	21.441	1.00	93.92	A16S
ATOM	25780	N2	G	A1222	227.692	107.340	20.956	1.00	93.92	A16S
ATOM	25781	N1	G	A1222	229.408	108.215	22.228	1.00	93.92	A16S
ATOM	25782	C6	G	A1222	230.668	108.247	22.824	1.00	93.92	A16S
ATOM	25783	O6	G	A1222	230.997	109.211	23.529	1.00	93.92	A16S
ATOM	25784	C5	G	A1222	231.422	107.087	22.510	1.00	93.92	A16S
ATOM	25785	N7	G	A1222	232.711	106.726	22.879	1.00	93.92	A16S
ATOM	25786	C8	G	A1222	232.898	105.565	22.307	1.00	93.92	A16S
ATOM	25787	C2*	G	A1222	231.785	104.250	19.278	1.00	64.25	A16S
ATOM	25788	O2*	G	A1222	230.988	103.364	18.523	1.00	64.25	A16S

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ATOM	25789	C3*	G	A1222	233.268	104.051	19.012	1.00	64.25	A16S
ATOM	25790	O3*	G	A1222	233.537	103.863	17.644	1.00	64.25	A16S
ATOM	25791	P	C	A1223	233.867	105.145	16.739	1.00	57.53	A16S
ATOM	25792	O1P	C	A1223	234.052	104.630	15.368	1.00	74.14	A16S
ATOM	25793	O2P	C	A1223	234.959	105.927	17.391	1.00	74.14	A16S
ATOM	25794	O5*	C	A1223	232.528	106.014	16.770	1.00	57.53	A16S
ATOM	25795	C5*	C	A1223	231.286	105.456	16.319	1.00	57.53	A16S
ATOM	25796	C4*	C	A1223	230.178	106.481	16.392	1.00	57.53	A16S
ATOM	25797	O4*	C	A1223	229.947	106.875	17.768	1.00	57.53	A16S
ATOM	25798	C1*	C	A1223	229.381	108.177	17.793	1.00	57.53	A16S
ATOM	25799	N1	C	A1223	230.099	109.022	18.767	1.00	74.14	A16S
ATOM	25800	C6	C	A1223	231.433	108.844	19.005	1.00	74.14	A16S
ATOM	25801	C2	C	A1223	229.390	110.045	19.438	1.00	74.14	A16S
ATOM	25802	O2	C	A1223	228.172	110.192	19.224	1.00	74.14	A16S
ATOM	25803	N3	C	A1223	230.051	110.850	20.295	1.00	74.14	A16S
ATOM	25804	C4	C	A1223	231.359	110.680	20.495	1.00	74.14	A16S
ATOM	25805	N4	C	A1223	231.974	111.526	21.322	1.00	74.14	A16S
ATOM	25806	C5	C	A1223	232.095	109.642	19.851	1.00	74.14	A16S
ATOM	25807	C2*	C	A1223	229.437	108.745	16.373	1.00	57.53	A16S
ATOM	25808	O2*	C	A1223	228.150	108.756	15.785	1.00	57.53	A16S
ATOM	25809	C3*	C	A1223	230.411	107.799	15.678	1.00	57.53	A16S
ATOM	25810	O3*	C	A1223	230.115	107.732	14.293	1.00	57.53	A16S
ATOM	25811	P	G	A1224	230.562	108.941	13.338	1.00	61.43	A16S
ATOM	25812	O1P	G	A1224	230.148	110.217	13.967	1.00	70.98	A16S
ATOM	25813	O2P	G	A1224	230.119	108.633	11.966	1.00	70.98	A16S
ATOM	25814	O5*	G	A1224	232.150	108.872	13.374	1.00	61.43	A16S
ATOM	25815	C5*	G	A1224	232.840	107.612	13.500	1.00	61.43	A16S
ATOM	25816	C4*	G	A1224	234.320	107.821	13.308	1.00	61.43	A16S
ATOM	25817	O4*	G	A1224	234.747	108.867	14.197	1.00	61.43	A16S
ATOM	25818	C1*	G	A1224	236.112	108.704	14.475	1.00	61.43	A16S
ATOM	25819	N9	G	A1224	236.414	109.336	15.757	1.00	70.98	A16S
ATOM	25820	C4	G	A1224	237.141	110.486	15.900	1.00	70.98	A16S
ATOM	25821	N3	G	A1224	237.698	111.186	14.896	1.00	70.98	A16S
ATOM	25822	C2	G	A1224	238.313	112.266	15.328	1.00	70.98	A16S
ATOM	25823	N2	G	A1224	238.904	113.078	14.448	1.00	70.98	A16S
ATOM	25824	N1	G	A1224	238.391	112.631	16.650	1.00	70.98	A16S
ATOM	25825	C6	G	A1224	237.832	111.925	17.706	1.00	70.98	A16S
ATOM	25826	O6	G	A1224	237.971	112.344	18.862	1.00	70.98	A16S
ATOM	25827	C5	G	A1224	237.149	110.757	17.250	1.00	70.98	A16S
ATOM	25828	N7	G	A1224	236.442	109.787	17.948	1.00	70.98	A16S
ATOM	25829	C8	G	A1224	236.030	108.959	17.023	1.00	70.98	A16S
ATOM	25830	C2*	G	A1224	236.523	107.253	14.190	1.00	61.43	A16S
ATOM	25831	O2*	G	A1224	237.659	107.266	13.336	1.00	61.43	A16S
ATOM	25832	C3*	G	A1224	235.217	106.636	13.639	1.00	61.43	A16S
ATOM	25833	O3*	G	A1224	235.253	105.670	12.537	1.00	61.43	A16S
ATOM	25834	P	A	A1225	236.059	105.972	11.147	1.00	76.52	A16S
ATOM	25835	O1P	A	A1225	236.420	107.409	11.020	1.00	74.07	A16S
ATOM	25836	O2P	A	A1225	235.294	105.338	10.045	1.00	74.07	A16S
ATOM	25837	O5*	A	A1225	237.394	105.127	11.340	1.00	76.52	A16S
ATOM	25838	C5*	A	A1225	237.498	103.795	10.815	1.00	76.52	A16S
ATOM	25839	C4*	A	A1225	237.036	102.765	11.826	1.00	76.52	A16S
ATOM	25840	O4*	A	A1225	235.694	103.043	12.284	1.00	76.52	A16S
ATOM	25841	C1*	A	A1225	235.078	101.821	12.648	1.00	76.52	A16S
ATOM	25842	N9	A	A1225	233.629	101.901	12.400	1.00	74.07	A16S
ATOM	25843	C4	A	A1225	232.983	101.260	11.436	1.00	74.07	A16S
ATOM	25844	N3	A	A1225	233.319	100.411	10.494	1.00	74.07	A16S
ATOM	25845	C2	A	A1225	232.310	100.002	9.724	1.00	74.07	A16S
ATOM	25846	N1	A	A1225	231.015	100.321	9.783	1.00	74.07	A16S
ATOM	25847	C6	A	A1225	230.608	101.177	10.739	1.00	74.07	A16S
ATOM	25848	N6	A	A1225	229.316	101.500	10.789	1.00	74.07	A16S
ATOM	25849	C5	A	A1225	231.579	101.681	11.625	1.00	74.07	A16S
ATOM	25850	N7	A	A1225	231.497	102.559	12.692	1.00	74.07	A16S
ATOM	25851	C8	A	A1225	232.733	102.655	13.116	1.00	74.07	A16S
ATOM	25852	C2*	A	A1225	235.835	100.668	11.970	1.00	76.52	A16S
ATOM	25853	O2*	A	A1225	236.280	99.704	12.901	1.00	76.52	A16S
ATOM	25854	C3*	A	A1225	236.969	101.372	11.216	1.00	76.52	A16S
ATOM	25855	O3*	A	A1225	238.201	100.711	11.500	1.00	76.52	A16S
ATOM	25856	P	C	A1226	239.353	100.631	10.391	1.00	77.02	A16S
ATOM	25857	O1P	C	A1226	240.320	99.618	10.858	1.00	55.23	A16S
ATOM	25858	O2P	C	A1226	239.833	101.984	10.054	1.00	55.23	A16S
ATOM	25859	O5*	C	A1226	238.616	100.014	9.134	1.00	77.02	A16S
ATOM	25860	C5*	C	A1226	239.035	100.350	7.814	1.00	77.02	A16S
ATOM	25861	C4*	C	A1226	238.194	99.612	6.833	1.00	77.02	A16S
ATOM	25862	O4*	C	A1226	236.863	99.570	7.372	1.00	77.02	A16S
ATOM	25863	C1*	C	A1226	235.929	99.756	6.337	1.00	77.02	A16S
ATOM	25864	N1	C	A1226	235.019	100.861	6.714	1.00	55.23	A16S
ATOM	25865	C6	C	A1226	235.452	101.906	7.484	1.00	55.23	A16S

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ATOM	25866	C2	C	A1226	233.675	100.793	6.312	1.00	55.23	A16S
ATOM	25867	O2	C	A1226	233.320	99.878	5.553	1.00	55.23	A16S
ATOM	25868	N3	C	A1226	232.802	101.723	6.760	1.00	55.23	A16S
ATOM	25869	C4	C	A1226	233.225	102.701	7.560	1.00	55.23	A16S
ATOM	25870	N4	C	A1226	232.318	103.558	8.027	1.00	55.23	A16S
ATOM	25871	C5	C	A1226	234.595	102.835	7.930	1.00	55.23	A16S
ATOM	25872	C2*	C	A1226	236.683	99.845	5.006	1.00	77.02	A16S
ATOM	25873	O2*	C	A1226	236.661	98.567	4.406	1.00	77.02	A16S
ATOM	25874	C3*	C	A1226	238.080	100.238	5.455	1.00	77.02	A16S
ATOM	25875	O3*	C	A1226	239.139	99.818	4.561	1.00	77.02	A16S
ATOM	25876	P	A	A1227	239.504	98.236	4.363	1.00	62.91	A16S
ATOM	25877	O1P	A	A1227	239.085	97.466	5.561	1.00	79.07	A16S
ATOM	25878	O2P	A	A1227	240.937	98.193	3.944	1.00	79.07	A16S
ATOM	25879	O5*	A	A1227	238.652	97.714	3.111	1.00	62.91	A16S
ATOM	25880	C5*	A	A1227	239.076	96.513	2.427	1.00	62.91	A16S
ATOM	25881	C4*	A	A1227	238.258	96.242	1.177	1.00	62.91	A16S
ATOM	25882	O4*	A	A1227	237.061	95.475	1.478	1.00	62.91	A16S
ATOM	25883	C1*	A	A1227	236.074	95.740	0.493	1.00	62.91	A16S
ATOM	25884	N9	A	A1227	234.905	96.341	1.141	1.00	79.07	A16S
ATOM	25885	C4	A	A1227	233.678	95.754	1.284	1.00	79.07	A16S
ATOM	25886	N3	A	A1227	233.325	94.522	0.893	1.00	79.07	A16S
ATOM	25887	C2	A	A1227	232.047	94.299	1.174	1.00	79.07	A16S
ATOM	25888	N1	A	A1227	231.147	95.114	1.754	1.00	79.07	A16S
ATOM	25889	C6	A	A1227	231.539	96.353	2.126	1.00	79.07	A16S
ATOM	25890	N6	A	A1227	230.638	97.173	2.678	1.00	79.07	A16S
ATOM	25891	C5	A	A1227	232.871	96.705	1.895	1.00	79.07	A16S
ATOM	25892	N7	A	A1227	233.581	97.867	2.151	1.00	79.07	A16S
ATOM	25893	C8	A	A1227	234.781	97.603	1.696	1.00	79.07	A16S
ATOM	25894	C2*	A	A1227	236.679	96.719	-0.511	1.00	62.91	A16S
ATOM	25895	O2*	A	A1227	237.200	96.012	-1.616	1.00	62.91	A16S
ATOM	25896	C3*	A	A1227	237.762	97.394	0.324	1.00	62.91	A16S
ATOM	25897	O3*	A	A1227	238.739	97.987	-0.512	1.00	62.91	A16S
ATOM	25898	P	C	A1228	238.386	99.368	-1.253	1.00	54.18	A16S
ATOM	25899	O1P	C	A1228	239.404	99.642	-2.304	1.00	65.61	A16S
ATOM	25900	O2P	C	A1228	238.119	100.392	-0.208	1.00	65.61	A16S
ATOM	25901	O5*	C	A1228	237.005	99.022	-1.958	1.00	54.18	A16S
ATOM	25902	C5*	C	A1228	236.108	100.055	-2.369	1.00	54.18	A16S
ATOM	25903	C4*	C	A1228	234.742	99.478	-2.639	1.00	54.18	A16S
ATOM	25904	O4*	C	A1228	234.223	98.880	-1.421	1.00	54.18	A16S
ATOM	25905	C1*	C	A1228	232.867	99.257	-1.241	1.00	54.18	A16S
ATOM	25906	N1	C	A1228	232.787	100.154	-0.057	1.00	65.61	A16S
ATOM	25907	C6	C	A1228	233.878	100.878	0.342	1.00	65.61	A16S
ATOM	25908	C2	C	A1228	231.571	100.275	0.643	1.00	65.61	A16S
ATOM	25909	O2	C	A1228	230.597	99.597	0.296	1.00	65.61	A16S
ATOM	25910	N3	C	A1228	231.491	101.129	1.685	1.00	65.61	A16S
ATOM	25911	C4	C	A1228	232.555	101.841	2.051	1.00	65.61	A16S
ATOM	25912	N4	C	A1228	232.417	102.681	3.079	1.00	65.61	A16S
ATOM	25913	C5	C	A1228	233.807	101.725	1.378	1.00	65.61	A16S
ATOM	25914	C2*	C	A1228	232.418	99.952	-2.535	1.00	54.18	A16S
ATOM	25915	O2*	C	A1228	231.864	99.005	-3.432	1.00	54.18	A16S
ATOM	25916	C3*	C	A1228	233.730	100.536	-3.035	1.00	54.18	A16S
ATOM	25917	O3*	C	A1228	233.759	100.756	-4.437	1.00	54.18	A16S
ATOM	25918	P	A	A1229	233.753	102.257	-4.998	1.00	56.63	A16S
ATOM	25919	O1P	A	A1229	234.122	102.221	-6.438	1.00	58.27	A16S
ATOM	25920	O2P	A	A1229	234.545	103.097	-4.061	1.00	58.27	A16S
ATOM	25921	O5*	A	A1229	232.228	102.698	-4.865	1.00	56.63	A16S
ATOM	25922	C5*	A	A1229	231.190	102.062	-5.643	1.00	56.63	A16S
ATOM	25923	C4*	A	A1229	229.841	102.672	-5.313	1.00	56.63	A16S
ATOM	25924	O4*	A	A1229	229.407	102.249	-3.994	1.00	56.63	A16S
ATOM	25925	C1*	A	A1229	228.797	103.335	-3.310	1.00	56.63	A16S
ATOM	25926	N9	A	A1229	229.601	103.648	-2.123	1.00	58.27	A16S
ATOM	25927	C4	A	A1229	229.263	104.522	-1.116	1.00	58.27	A16S
ATOM	25928	N3	A	A1229	228.135	105.241	-1.005	1.00	58.27	A16S
ATOM	25929	C2	A	A1229	228.165	105.987	0.098	1.00	58.27	A16S
ATOM	25930	N1	A	A1229	229.122	106.091	1.030	1.00	58.27	A16S
ATOM	25931	C6	A	A1229	230.242	105.356	0.888	1.00	58.27	A16S
ATOM	25932	N6	A	A1229	231.196	105.460	1.815	1.00	58.27	A16S
ATOM	25933	C5	A	A1229	230.335	104.519	-0.238	1.00	58.27	A16S
ATOM	25934	N7	A	A1229	231.325	103.647	-0.673	1.00	58.27	A16S
ATOM	25935	C8	A	A1229	230.843	103.154	-1.786	1.00	58.27	A16S
ATOM	25936	C2*	A	A1229	228.715	104.505	-4.289	1.00	56.63	A16S
ATOM	25937	O2*	A	A1229	227.448	104.477	-4.900	1.00	56.63	A16S
ATOM	25938	C3*	A	A1229	229.851	104.185	-5.251	1.00	56.63	A16S
ATOM	25939	O3*	A	A1229	229.666	104.740	-6.532	1.00	56.63	A16S
ATOM	25940	P	C	A1230	230.206	106.216	-6.824	1.00	45.33	A16S
ATOM	25941	O1P	C	A1230	230.201	106.456	-8.289	1.00	57.87	A16S
ATOM	25942	O2P	C	A1230	231.470	106.377	-6.059	1.00	57.87	A16S

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ATOM	25943	O5*	C	A1230	229.100	107.154	-6.168	1.00	45.33	A16S
ATOM	25944	C5*	C	A1230	227.763	107.214	-6.712	1.00	45.33	A16S
ATOM	25945	C4*	C	A1230	226.879	108.078	-5.841	1.00	45.33	A16S
ATOM	25946	O4*	C	A1230	226.820	107.501	-4.509	1.00	45.33	A16S
ATOM	25947	C1*	C	A1230	226.782	108.539	-3.545	1.00	45.33	A16S
ATOM	25948	N1	C	A1230	227.958	108.436	-2.652	1.00	57.87	A16S
ATOM	25949	C6	C	A1230	229.009	107.615	-2.941	1.00	57.87	A16S
ATOM	25950	C2	C	A1230	227.979	109.217	-1.494	1.00	57.87	A16S
ATOM	25951	O2	C	A1230	227.003	109.926	-1.237	1.00	57.87	A16S
ATOM	25952	N3	C	A1230	229.052	109.177	-0.682	1.00	57.87	A16S
ATOM	25953	C4	C	A1230	230.075	108.386	-0.974	1.00	57.87	A16S
ATOM	25954	N4	C	A1230	231.117	108.388	-0.141	1.00	57.87	A16S
ATOM	25955	C5	C	A1230	230.078	107.558	-2.134	1.00	57.87	A16S
ATOM	25956	C2*	C	A1230	226.743	109.872	-4.293	1.00	45.33	A16S
ATOM	25957	O2*	C	A1230	225.396	110.259	-4.457	1.00	45.33	A16S
ATOM	25958	C3*	C	A1230	227.380	109.497	-5.617	1.00	45.33	A16S
ATOM	25959	O3*	C	A1230	226.978	110.381	-6.648	1.00	45.33	A16S
ATOM	25960	P	G	A1231	227.750	111.783	-6.829	1.00	52.50	A16S
ATOM	25961	O1P	G	A1231	227.319	112.359	-8.138	1.00	61.29	A16S
ATOM	25962	O2P	G	A1231	229.200	111.567	-6.560	1.00	61.29	A16S
ATOM	25963	O5*	G	A1231	227.182	112.704	-5.654	1.00	52.50	A16S
ATOM	25964	C5*	G	A1231	225.773	112.974	-5.546	1.00	52.50	A16S
ATOM	25965	C4*	G	A1231	225.472	113.807	-4.318	1.00	52.50	A16S
ATOM	25966	O4*	G	A1231	225.669	113.036	-3.108	1.00	52.50	A16S
ATOM	25967	C1*	G	A1231	226.149	113.886	-2.080	1.00	52.50	A16S
ATOM	25968	N9	G	A1231	227.479	113.431	-1.685	1.00	61.29	A16S
ATOM	25969	C4	G	A1231	228.190	113.846	-0.587	1.00	61.29	A16S
ATOM	25970	N3	G	A1231	227.791	114.764	0.308	1.00	61.29	A16S
ATOM	25971	C2	G	A1231	228.687	114.945	1.249	1.00	61.29	A16S
ATOM	25972	N2	G	A1231	228.462	115.836	2.216	1.00	61.29	A16S
ATOM	25973	N1	G	A1231	229.875	114.274	1.316	1.00	61.29	A16S
ATOM	25974	C6	G	A1231	230.307	113.324	0.405	1.00	61.29	A16S
ATOM	25975	O6	G	A1231	231.404	112.768	0.559	1.00	61.29	A16S
ATOM	25976	C5	G	A1231	229.362	113.126	-0.617	1.00	61.29	A16S
ATOM	25977	N7	G	A1231	229.398	112.285	-1.720	1.00	61.29	A16S
ATOM	25978	C8	G	A1231	228.264	112.501	-2.325	1.00	61.29	A16S
ATOM	25979	C2*	G	A1231	226.167	115.310	-2.626	1.00	52.50	A16S
ATOM	25980	O2*	G	A1231	224.935	115.908	-2.274	1.00	52.50	A16S
ATOM	25981	C3*	G	A1231	226.311	115.056	-4.121	1.00	52.50	A16S
ATOM	25982	O3*	G	A1231	225.826	116.123	-4.912	1.00	52.50	A16S
ATOM	25983	P	U	A1232	226.864	117.180	-5.530	1.00	42.64	A16S
ATOM	25984	O1P	U	A1232	226.161	118.030	-6.549	1.00	69.32	A16S
ATOM	25985	O2P	U	A1232	228.065	116.407	-5.933	1.00	69.32	A16S
ATOM	25986	O5*	U	A1232	227.261	118.061	-4.264	1.00	42.64	A16S
ATOM	25987	C5*	U	A1232	226.257	118.768	-3.509	1.00	42.64	A16S
ATOM	25988	C4*	U	A1232	226.877	119.390	-2.282	1.00	42.64	A16S
ATOM	25989	O4*	U	A1232	227.304	118.354	-1.366	1.00	42.64	A16S
ATOM	25990	C1*	U	A1232	228.517	118.722	-0.757	1.00	42.64	A16S
ATOM	25991	N1	U	A1232	229.502	117.680	-1.059	1.00	69.32	A16S
ATOM	25992	C6	U	A1232	229.410	116.930	-2.201	1.00	69.32	A16S
ATOM	25993	C2	U	A1232	230.520	117.475	-0.155	1.00	69.32	A16S
ATOM	25994	O2	U	A1232	230.642	118.125	0.860	1.00	69.32	A16S
ATOM	25995	N3	U	A1232	231.397	116.479	-0.487	1.00	69.32	A16S
ATOM	25996	C4	U	A1232	231.363	115.689	-1.610	1.00	69.32	A16S
ATOM	25997	O4	U	A1232	232.223	114.822	-1.767	1.00	69.32	A16S
ATOM	25998	C5	U	A1232	230.281	115.968	-2.501	1.00	69.32	A16S
ATOM	25999	C2*	U	A1232	228.899	120.115	-1.262	1.00	42.64	A16S
ATOM	26000	O2*	U	A1232	228.487	121.073	-0.310	1.00	42.64	A16S
ATOM	26001	C3*	U	A1232	228.120	120.202	-2.569	1.00	42.64	A16S
ATOM	26002	O3*	U	A1232	227.750	121.528	-2.936	1.00	42.64	A16S
ATOM	26003	P	G	A1233	228.828	122.478	-3.644	1.00	46.31	A16S
ATOM	26004	O1P	G	A1233	228.173	123.767	-3.984	1.00	60.03	A16S
ATOM	26005	O2P	G	A1233	229.483	121.683	-4.713	1.00	60.03	A16S
ATOM	26006	O5*	G	A1233	229.888	122.713	-2.478	1.00	46.31	A16S
ATOM	26007	C5*	G	A1233	231.279	122.867	-2.764	1.00	46.31	A16S
ATOM	26008	C4*	G	A1233	232.094	122.613	-1.530	1.00	46.31	A16S
ATOM	26009	O4*	G	A1233	232.002	121.211	-1.161	1.00	46.31	A16S
ATOM	26010	C1*	G	A1233	233.239	120.779	-0.599	1.00	46.31	A16S
ATOM	26011	N9	G	A1233	233.734	119.619	-1.346	1.00	60.03	A16S
ATOM	26012	C4	G	A1233	234.869	118.874	-1.077	1.00	60.03	A16S
ATOM	26013	N3	G	A1233	235.749	119.084	-0.074	1.00	60.03	A16S
ATOM	26014	C2	G	A1233	236.730	118.189	-0.085	1.00	60.03	A16S
ATOM	26015	N2	G	A1233	237.702	118.235	0.838	1.00	60.03	A16S
ATOM	26016	N1	G	A1233	236.833	117.178	-0.996	1.00	60.03	A16S
ATOM	26017	C6	G	A1233	235.937	116.938	-2.026	1.00	60.03	A16S
ATOM	26018	O6	G	A1233	236.112	115.980	-2.780	1.00	60.03	A16S
ATOM	26019	C5	G	A1233	234.892	117.886	-2.040	1.00	60.03	A16S

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ATOM	26020	N7	G	A1233	233.812	118.007	-2.901	1.00	60.03	A16S
ATOM	26021	C8	G	A1233	233.155	119.045	-2.454	1.00	60.03	A16S
ATOM	26022	C2*	G	A1233	234.184	121.981	-0.599	1.00	46.31	A16S
ATOM	26023	O2*	G	A1233	234.083	122.571	0.679	1.00	46.31	A16S
ATOM	26024	C3*	G	A1233	233.581	122.861	-1.691	1.00	46.31	A16S
ATOM	26025	O3*	G	A1233	233.876	124.250	-1.545	1.00	46.31	A16S
ATOM	26026	P	C	A1234	235.006	124.925	-2.478	1.00	55.83	A16S
ATOM	26027	O1P	C	A1234	234.914	126.397	-2.284	1.00	57.83	A16S
ATOM	26028	O2P	C	A1234	234.947	124.369	-3.857	1.00	57.83	A16S
ATOM	26029	O5*	C	A1234	236.351	124.405	-1.813	1.00	55.83	A16S
ATOM	26030	C5*	C	A1234	236.660	124.762	-0.461	1.00	55.83	A16S
ATOM	26031	C4*	C	A1234	237.872	124.009	0.022	1.00	55.83	A16S
ATOM	26032	O4*	C	A1234	237.583	122.591	0.044	1.00	55.83	A16S
ATOM	26033	C1*	C	A1234	238.746	121.860	-0.279	1.00	55.83	A16S
ATOM	26034	N1	C	A1234	238.457	121.039	-1.467	1.00	57.83	A16S
ATOM	26035	C6	C	A1234	237.423	121.350	-2.311	1.00	57.83	A16S
ATOM	26036	C2	C	A1234	239.252	119.917	-1.712	1.00	57.83	A16S
ATOM	26037	O2	C	A1234	240.216	119.690	-0.957	1.00	57.83	A16S
ATOM	26038	N3	C	A1234	238.962	119.115	-2.763	1.00	57.83	A16S
ATOM	26039	C4	C	A1234	237.936	119.409	-3.560	1.00	57.83	A16S
ATOM	26040	N4	C	A1234	237.669	118.576	-4.560	1.00	57.83	A16S
ATOM	26041	C5	C	A1234	237.132	120.569	-3.359	1.00	57.83	A16S
ATOM	26042	C2*	C	A1234	239.884	122.857	-0.479	1.00	55.83	A16S
ATOM	26043	O2*	C	A1234	240.588	122.941	0.738	1.00	55.83	A16S
ATOM	26044	C3*	C	A1234	239.116	124.126	-0.833	1.00	55.83	A16S
ATOM	26045	O3*	C	A1234	239.820	125.322	-0.553	1.00	55.83	A16S
ATOM	26046	P	U	A1235	240.631	126.046	-1.735	1.00	48.45	A16S
ATOM	26047	O1P	U	A1235	241.252	127.281	-1.174	1.00	56.67	A16S
ATOM	26048	O2P	U	A1235	239.751	126.167	-2.935	1.00	56.67	A16S
ATOM	26049	O5*	U	A1235	241.787	124.984	-2.036	1.00	48.45	A16S
ATOM	26050	C5*	U	A1235	242.862	124.781	-1.089	1.00	48.45	A16S
ATOM	26051	C4*	U	A1235	243.874	123.800	-1.634	1.00	48.45	A16S
ATOM	26052	O4*	U	A1235	243.305	122.463	-1.641	1.00	48.45	A16S
ATOM	26053	C1*	U	A1235	243.801	121.738	-2.769	1.00	48.45	A16S
ATOM	26054	N1	U	A1235	242.671	121.365	-3.653	1.00	56.67	A16S
ATOM	26055	C6	U	A1235	241.456	122.024	-3.585	1.00	56.67	A16S
ATOM	26056	C2	U	A1235	242.863	120.331	-4.581	1.00	56.67	A16S
ATOM	26057	O2	U	A1235	243.909	119.697	-4.677	1.00	56.67	A16S
ATOM	26058	N3	U	A1235	241.782	120.072	-5.390	1.00	56.67	A16S
ATOM	26059	C4	U	A1235	240.556	120.714	-5.381	1.00	56.67	A16S
ATOM	26060	O4	U	A1235	239.730	120.460	-6.265	1.00	56.67	A16S
ATOM	26061	C5	U	A1235	240.427	121.737	-4.391	1.00	56.67	A16S
ATOM	26062	C2*	U	A1235	244.810	122.644	-3.480	1.00	48.45	A16S
ATOM	26063	O2*	U	A1235	246.122	122.422	-3.007	1.00	48.45	A16S
ATOM	26064	C3*	U	A1235	244.328	124.023	-3.070	1.00	48.45	A16S
ATOM	26065	O3*	U	A1235	245.365	124.971	-3.227	1.00	48.45	A16S
ATOM	26066	P	A	A1236	245.551	125.702	-4.649	1.00	55.68	A16S
ATOM	26067	O1P	A	A1236	246.837	126.411	-4.482	1.00	55.96	A16S
ATOM	26068	O2P	A	A1236	244.334	126.477	-5.033	1.00	55.96	A16S
ATOM	26069	O5*	A	A1236	245.721	124.507	-5.704	1.00	55.68	A16S
ATOM	26070	C5*	A	A1236	246.923	123.718	-5.701	1.00	55.68	A16S
ATOM	26071	C4*	A	A1236	246.896	122.585	-6.726	1.00	55.68	A16S
ATOM	26072	O4*	A	A1236	245.799	121.651	-6.513	1.00	55.68	A16S
ATOM	26073	C1*	A	A1236	245.652	120.844	-7.674	1.00	55.68	A16S
ATOM	26074	N9	A	A1236	244.267	120.875	-8.148	1.00	55.96	A16S
ATOM	26075	C4	A	A1236	243.587	119.804	-8.680	1.00	55.96	A16S
ATOM	26076	N3	A	A1236	244.039	118.548	-8.844	1.00	55.96	A16S
ATOM	26077	C2	A	A1236	243.096	117.779	-9.387	1.00	55.96	A16S
ATOM	26078	N1	A	A1236	241.855	118.098	-9.758	1.00	55.96	A16S
ATOM	26079	C6	A	A1236	241.441	119.372	-9.591	1.00	55.96	A16S
ATOM	26080	N6	A	A1236	240.209	119.702	-9.980	1.00	55.96	A16S
ATOM	26081	C5	A	A1236	242.338	120.283	-9.020	1.00	55.96	A16S
ATOM	26082	N7	A	A1236	242.224	121.630	-8.709	1.00	55.96	A16S
ATOM	26083	C8	A	A1236	243.391	121.932	-8.191	1.00	55.96	A16S
ATOM	26084	C2*	A	A1236	246.587	121.406	-8.740	1.00	55.68	A16S
ATOM	26085	O2*	A	A1236	247.742	120.590	-8.710	1.00	55.68	A16S
ATOM	26086	C3*	A	A1236	246.856	122.825	-8.229	1.00	55.68	A16S
ATOM	26087	O3*	A	A1236	248.097	123.275	-8.773	1.00	55.68	A16S
ATOM	26088	P	C	A1237	248.118	123.963	-10.234	1.00	56.97	A16S
ATOM	26089	O1P	C	A1237	249.327	124.835	-10.302	1.00	46.61	A16S
ATOM	26090	O2P	C	A1237	246.775	124.551	-10.483	1.00	46.61	A16S
ATOM	26091	O5*	C	A1237	248.299	122.758	-11.265	1.00	56.97	A16S
ATOM	26092	C5*	C	A1237	249.490	121.951	-11.267	1.00	56.97	A16S
ATOM	26093	C4*	C	A1237	249.224	120.630	-11.950	1.00	56.97	A16S
ATOM	26094	O4*	C	A1237	248.097	119.997	-11.297	1.00	56.97	A16S
ATOM	26095	C1*	C	A1237	247.302	119.318	-12.250	1.00	56.97	A16S
ATOM	26096	N1	C	A1237	245.946	119.912	-12.243	1.00	46.61	A16S

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ATOM	26097	C6	C	A1237	245.769	121.251	-12.025	1.00	46.61	A16S
ATOM	26098	C2	C	A1237	244.837	119.088	-12.488	1.00	46.61	A16S
ATOM	26099	O2	C	A1237	245.016	117.867	-12.626	1.00	46.61	A16S
ATOM	26100	N3	C	A1237	243.601	119.647	-12.557	1.00	46.61	A16S
ATOM	26101	C4	C	A1237	243.451	120.958	-12.368	1.00	46.61	A16S
ATOM	26102	N4	C	A1237	242.233	121.474	-12.464	1.00	46.61	A16S
ATOM	26103	C5	C	A1237	244.551	121.806	-12.076	1.00	46.61	A16S
ATOM	26104	C2*	C	A1237	247.997	119.445	-13.610	1.00	56.97	A16S
ATOM	26105	O2*	C	A1237	248.776	118.295	-13.865	1.00	56.97	A16S
ATOM	26106	C3*	C	A1237	248.841	120.700	-13.420	1.00	56.97	A16S
ATOM	26107	O3*	C	A1237	250.008	120.650	-14.229	1.00	56.97	A16S
ATOM	26108	P	A	A1238	249.890	120.783	-15.829	1.00	52.31	A16S
ATOM	26109	O1P	A	A1238	248.499	120.434	-16.200	1.00	62.01	A16S
ATOM	26110	O2P	A	A1238	251.029	120.037	-16.460	1.00	62.01	A16S
ATOM	26111	O5*	A	A1238	250.147	122.333	-16.109	1.00	52.31	A16S
ATOM	26112	C5*	A	A1238	249.087	123.273	-16.027	1.00	52.31	A16S
ATOM	26113	C4*	A	A1238	249.474	124.462	-15.166	1.00	52.31	A16S
ATOM	26114	O4*	A	A1238	250.139	124.043	-13.940	1.00	52.31	A16S
ATOM	26115	C1*	A	A1238	250.845	125.148	-13.397	1.00	52.31	A16S
ATOM	26116	N9	A	A1238	252.230	124.770	-13.125	1.00	62.01	A16S
ATOM	26117	C4	A	A1238	253.215	125.651	-12.753	1.00	62.01	A16S
ATOM	26118	N3	A	A1238	253.087	126.971	-12.546	1.00	62.01	A16S
ATOM	26119	C2	A	A1238	254.255	127.508	-12.232	1.00	62.01	A16S
ATOM	26120	N1	A	A1238	255.443	126.927	-12.114	1.00	62.01	A16S
ATOM	26121	C6	A	A1238	255.533	125.599	-12.324	1.00	62.01	A16S
ATOM	26122	N6	A	A1238	256.719	125.016	-12.204	1.00	62.01	A16S
ATOM	26123	C5	A	A1238	254.368	124.911	-12.659	1.00	62.01	A16S
ATOM	26124	N7	A	A1238	254.120	123.579	-12.935	1.00	62.01	A16S
ATOM	26125	C8	A	A1238	252.837	123.547	-13.199	1.00	62.01	A16S
ATOM	26126	C2*	A	A1238	250.773	126.281	-14.421	1.00	52.31	A16S
ATOM	26127	O2*	A	A1238	249.759	127.169	-13.990	1.00	52.31	A16S
ATOM	26128	C3*	A	A1238	250.407	125.535	-15.703	1.00	52.31	A16S
ATOM	26129	O3*	A	A1238	249.738	126.418	-16.594	1.00	52.31	A16S
ATOM	26130	P	A	A1239	250.547	127.085	-17.811	1.00	52.88	A16S
ATOM	26131	O1P	A	A1239	249.581	127.824	-18.671	1.00	45.88	A16S
ATOM	26132	O2P	A	A1239	251.414	126.033	-18.407	1.00	45.88	A16S
ATOM	26133	O5*	A	A1239	251.497	128.155	-17.113	1.00	52.88	A16S
ATOM	26134	C5*	A	A1239	250.982	129.422	-16.665	1.00	52.88	A16S
ATOM	26135	C4*	A	A1239	252.011	130.506	-16.876	1.00	52.88	A16S
ATOM	26136	O4*	A	A1239	253.211	130.162	-16.136	1.00	52.88	A16S
ATOM	26137	C1*	A	A1239	254.311	130.144	-17.013	1.00	52.88	A16S
ATOM	26138	N9	A	A1239	255.263	129.142	-16.563	1.00	45.88	A16S
ATOM	26139	C4	A	A1239	256.599	129.387	-16.376	1.00	45.88	A16S
ATOM	26140	N3	A	A1239	257.249	130.554	-16.566	1.00	45.88	A16S
ATOM	26141	C2	A	A1239	258.549	130.417	-16.308	1.00	45.88	A16S
ATOM	26142	N1	A	A1239	259.224	129.328	-15.907	1.00	45.88	A16S
ATOM	26143	C6	A	A1239	258.538	128.174	-15.717	1.00	45.88	A16S
ATOM	26144	N6	A	A1239	259.207	127.091	-15.313	1.00	45.88	A16S
ATOM	26145	C5	A	A1239	257.146	128.189	-15.962	1.00	45.88	A16S
ATOM	26146	N7	A	A1239	256.167	127.207	-15.879	1.00	45.88	A16S
ATOM	26147	C8	A	A1239	255.071	127.825	-16.246	1.00	45.88	A16S
ATOM	26148	C2*	A	A1239	253.739	129.896	-18.399	1.00	52.88	A16S
ATOM	26149	O2*	A	A1239	254.670	130.291	-19.385	1.00	52.88	A16S
ATOM	26150	C3*	A	A1239	252.446	130.706	-18.321	1.00	52.88	A16S
ATOM	26151	O3*	A	A1239	252.725	132.087	-18.495	1.00	52.88	A16S
ATOM	26152	P	U	A1240	251.748	132.991	-19.396	1.00	59.12	A16S
ATOM	26153	O1P	U	A1240	251.048	132.073	-20.341	1.00	59.92	A16S
ATOM	26154	O2P	U	A1240	252.520	134.147	-19.931	1.00	59.92	A16S
ATOM	26155	O5*	U	A1240	250.664	133.534	-18.357	1.00	59.12	A16S
ATOM	26156	C5*	U	A1240	250.988	134.587	-17.425	1.00	59.12	A16S
ATOM	26157	C4*	U	A1240	249.746	135.039	-16.699	1.00	59.12	A16S
ATOM	26158	O4*	U	A1240	248.787	135.546	-17.663	1.00	59.12	A16S
ATOM	26159	C1*	U	A1240	247.571	134.859	-17.511	1.00	59.12	A16S
ATOM	26160	N1	U	A1240	246.881	134.814	-18.806	1.00	59.92	A16S
ATOM	26161	C6	U	A1240	247.188	133.873	-19.756	1.00	59.92	A16S
ATOM	26162	C2	U	A1240	245.895	135.763	-19.037	1.00	59.92	A16S
ATOM	26163	O2	U	A1240	245.587	136.625	-18.230	1.00	59.92	A16S
ATOM	26164	N3	U	A1240	245.278	135.669	-20.255	1.00	59.92	A16S
ATOM	26165	C4	U	A1240	245.529	134.745	-21.242	1.00	59.92	A16S
ATOM	26166	O4	U	A1240	244.833	134.748	-22.256	1.00	59.92	A16S
ATOM	26167	C5	U	A1240	246.562	133.807	-20.934	1.00	59.92	A16S
ATOM	26168	C2*	U	A1240	247.939	133.516	-16.893	1.00	59.12	A16S
ATOM	26169	O2*	U	A1240	246.813	132.929	-16.286	1.00	59.12	A16S
ATOM	26170	C3*	U	A1240	249.033	133.940	-15.923	1.00	59.12	A16S
ATOM	26171	O3*	U	A1240	248.398	134.530	-14.788	1.00	59.12	A16S
ATOM	26172	P	G	A1241	249.190	134.672	-13.389	1.00	55.77	A16S
ATOM	26173	O1P	G	A1241	248.137	134.830	-12.339	1.00	59.41	A16S

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ATOM	26174	O2P	G	A1241	250.235	135.725	-13.550	1.00	59.41	A16S
ATOM	26175	O5*	G	A1241	249.898	133.261	-13.172	1.00	55.77	A16S
ATOM	26176	C5*	G	A1241	249.112	132.082	-13.073	1.00	55.77	A16S
ATOM	26177	C4*	G	A1241	249.966	130.922	-12.671	1.00	55.77	A16S
ATOM	26178	O4*	G	A1241	250.944	130.681	-13.705	1.00	55.77	A16S
ATOM	26179	C1*	G	A1241	252.159	130.250	-13.122	1.00	55.77	A16S
ATOM	26180	N9	G	A1241	253.189	131.231	-13.471	1.00	59.41	A16S
ATOM	26181	C4	G	A1241	254.556	131.093	-13.331	1.00	59.41	A16S
ATOM	26182	N3	G	A1241	255.199	130.025	-12.815	1.00	59.41	A16S
ATOM	26183	C2	G	A1241	256.506	130.178	-12.833	1.00	59.41	A16S
ATOM	26184	N2	G	A1241	257.284	129.207	-12.364	1.00	59.41	A16S
ATOM	26185	N1	G	A1241	257.138	131.295	-13.317	1.00	59.41	A16S
ATOM	26186	C6	G	A1241	256.496	132.413	-13.848	1.00	59.41	A16S
ATOM	26187	O6	G	A1241	257.156	133.377	-14.254	1.00	59.41	A16S
ATOM	26188	C5	G	A1241	255.094	132.258	-13.835	1.00	59.41	A16S
ATOM	26189	N7	G	A1241	254.094	133.120	-14.266	1.00	59.41	A16S
ATOM	26190	C8	G	A1241	252.984	132.475	-14.026	1.00	59.41	A16S
ATOM	26191	C2*	G	A1241	251.915	130.108	-11.618	1.00	55.77	A16S
ATOM	26192	O2*	G	A1241	251.495	128.788	-11.325	1.00	55.77	A16S
ATOM	26193	C3*	G	A1241	250.779	131.095	-11.405	1.00	55.77	A16S
ATOM	26194	O3*	G	A1241	250.025	130.770	-10.252	1.00	55.77	A16S
ATOM	26195	P	C	A1242	250.489	131.333	-8.820	1.00	53.12	A16S
ATOM	26196	O1P	C	A1242	249.477	130.922	-7.807	1.00	56.85	A16S
ATOM	26197	O2P	C	A1242	250.799	132.782	-9.001	1.00	56.85	A16S
ATOM	26198	O5*	C	A1242	251.814	130.511	-8.495	1.00	53.12	A16S
ATOM	26199	C5*	C	A1242	251.706	129.195	-7.958	1.00	53.12	A16S
ATOM	26200	C4*	C	A1242	253.063	128.642	-7.631	1.00	53.12	A16S
ATOM	26201	O4*	C	A1242	253.839	128.567	-8.854	1.00	53.12	A16S
ATOM	26202	C1*	C	A1242	255.201	128.837	-8.572	1.00	53.12	A16S
ATOM	26203	N1	C	A1242	255.548	130.116	-9.217	1.00	56.85	A16S
ATOM	26204	C6	C	A1242	254.580	130.898	-9.788	1.00	56.85	A16S
ATOM	26205	C2	C	A1242	256.884	130.534	-9.219	1.00	56.85	A16S
ATOM	26206	O2	C	A1242	257.747	129.801	-8.693	1.00	56.85	A16S
ATOM	26207	N3	C	A1242	257.197	131.725	-9.786	1.00	56.85	A16S
ATOM	26208	C4	C	A1242	256.237	132.484	-10.325	1.00	56.85	A16S
ATOM	26209	N4	C	A1242	256.582	133.656	-10.856	1.00	56.85	A16S
ATOM	26210	C5	C	A1242	254.878	132.076	-10.342	1.00	56.85	A16S
ATOM	26211	C2*	C	A1242	255.331	128.944	-7.052	1.00	53.12	A16S
ATOM	26212	O2*	C	A1242	255.644	127.658	-6.534	1.00	53.12	A16S
ATOM	26213	C3*	C	A1242	253.936	129.441	-6.671	1.00	53.12	A16S
ATOM	26214	O3*	C	A1242	253.600	129.249	-5.287	1.00	53.12	A16S
ATOM	26215	P	C	A1243	253.780	130.471	-4.242	1.00	76.47	A16S
ATOM	26216	O1P	C	A1243	253.238	130.054	-2.920	1.00	58.68	A16S
ATOM	26217	O2P	C	A1243	253.288	131.721	-4.876	1.00	58.68	A16S
ATOM	26218	O5*	C	A1243	255.361	130.588	-4.079	1.00	76.47	A16S
ATOM	26219	C5*	C	A1243	256.152	129.442	-3.672	1.00	76.47	A16S
ATOM	26220	C4*	C	A1243	257.629	129.778	-3.692	1.00	76.47	A16S
ATOM	26221	O4*	C	A1243	258.071	129.998	-5.057	1.00	76.47	A16S
ATOM	26222	C1*	C	A1243	259.019	131.049	-5.083	1.00	76.47	A16S
ATOM	26223	N1	C	A1243	258.451	132.156	-5.854	1.00	58.68	A16S
ATOM	26224	C6	C	A1243	257.128	132.476	-5.749	1.00	58.68	A16S
ATOM	26225	C2	C	A1243	259.287	132.888	-6.690	1.00	58.68	A16S
ATOM	26226	O2	C	A1243	260.488	132.579	-6.754	1.00	58.68	A16S
ATOM	26227	N3	C	A1243	258.776	133.916	-7.403	1.00	58.68	A16S
ATOM	26228	C4	C	A1243	257.483	134.223	-7.288	1.00	58.68	A16S
ATOM	26229	N4	C	A1243	257.016	135.254	-7.999	1.00	58.68	A16S
ATOM	26230	C5	C	A1243	256.608	133.492	-6.438	1.00	58.68	A16S
ATOM	26231	C2*	C	A1243	259.292	131.483	-3.645	1.00	76.47	A16S
ATOM	26232	O2*	C	A1243	260.443	130.819	-3.164	1.00	76.47	A16S
ATOM	26233	C3*	C	A1243	258.007	131.052	-2.953	1.00	76.47	A16S
ATOM	26234	O3*	C	A1243	258.176	130.824	-1.565	1.00	76.47	A16S
ATOM	26235	P	C	A1244	257.900	132.020	-0.531	1.00	99.27	A16S
ATOM	26236	O1P	C	A1244	257.944	131.375	0.811	1.00	75.72	A16S
ATOM	26237	O2P	C	A1244	256.695	132.788	-0.945	1.00	75.72	A16S
ATOM	26238	O5*	C	A1244	259.156	132.980	-0.730	1.00	99.27	A16S
ATOM	26239	C5*	C	A1244	260.465	132.585	-0.275	1.00	99.27	A16S
ATOM	26240	C4*	C	A1244	261.472	133.679	-0.544	1.00	99.27	A16S
ATOM	26241	O4*	C	A1244	261.705	133.796	-1.970	1.00	99.27	A16S
ATOM	26242	C1*	C	A1244	261.976	135.147	-2.296	1.00	99.27	A16S
ATOM	26243	N1	C	A1244	260.963	135.621	-3.246	1.00	75.72	A16S
ATOM	26244	C6	C	A1244	259.727	135.035	-3.315	1.00	75.72	A16S
ATOM	26245	C2	C	A1244	261.279	136.714	-4.073	1.00	75.72	A16S
ATOM	26246	O2	C	A1244	262.415	137.214	-4.009	1.00	75.72	A16S
ATOM	26247	N3	C	A1244	260.343	137.196	-4.915	1.00	75.72	A16S
ATOM	26248	C4	C	A1244	259.136	136.629	-4.962	1.00	75.72	A16S
ATOM	26249	N4	C	A1244	258.242	137.150	-5.802	1.00	75.72	A16S
ATOM	26250	C5	C	A1244	258.791	135.503	-4.147	1.00	75.72	A16S

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ATOM	26251	C2* C	A1244	261.927	135.965	-1.005	1.00	99.27	A16S
ATOM	26252	O2* C	A1244	263.236	136.153	-0.513	1.00	99.27	A16S
ATOM	26253	C3* C	A1244	261.070	135.080	-0.110	1.00	99.27	A16S
ATOM	26254	O3* C	A1244	261.309	135.314	1.270	1.00	99.27	A16S
ATOM	26255	P A	A1245	260.467	136.451	2.041	1.00	90.81	A16S
ATOM	26256	O1P A	A1245	260.847	136.319	3.477	1.00	88.42	A16S
ATOM	26257	O2P A	A1245	259.031	136.377	1.653	1.00	88.42	A16S
ATOM	26258	O5* A	A1245	261.063	137.812	1.465	1.00	90.81	A16S
ATOM	26259	C5* A	A1245	262.460	138.085	1.591	1.00	90.81	A16S
ATOM	26260	C4* A	A1245	262.852	139.241	0.719	1.00	90.81	A16S
ATOM	26261	O4* A	A1245	262.570	138.937	-0.669	1.00	90.81	A16S
ATOM	26262	C1* A	A1245	262.270	140.137	-1.362	1.00	90.81	A16S
ATOM	26263	N9 A	A1245	260.963	140.003	-2.000	1.00	88.42	A16S
ATOM	26264	C4 A	A1245	260.509	140.762	-3.053	1.00	88.42	A16S
ATOM	26265	N3 A	A1245	261.168	141.741	-3.696	1.00	88.42	A16S
ATOM	26266	C2 A	A1245	260.405	142.274	-4.650	1.00	88.42	A16S
ATOM	26267	N1 A	A1245	259.156	141.962	-5.008	1.00	88.42	A16S
ATOM	26268	C6 A	A1245	258.523	140.970	-4.340	1.00	88.42	A16S
ATOM	26269	N6 A	A1245	257.273	140.658	-4.689	1.00	88.42	A16S
ATOM	26270	C5 A	A1245	259.224	140.324	-3.306	1.00	88.42	A16S
ATOM	26271	N7 A	A1245	258.875	139.296	-2.439	1.00	88.42	A16S
ATOM	26272	C8 A	A1245	259.938	139.141	-1.689	1.00	88.42	A16S
ATOM	26273	C2* A	A1245	262.297	141.285	-0.351	1.00	90.81	A16S
ATOM	26274	O2* A	A1245	263.520	141.990	-0.451	1.00	90.81	A16S
ATOM	26275	C3* A	A1245	262.117	140.540	0.969	1.00	90.81	A16S
ATOM	26276	O3* A	A1245	262.661	141.240	2.076	1.00	90.81	A16S
ATOM	26277	P C	A1246	261.690	142.120	3.002	1.00	96.81	A16S
ATOM	26278	O1P C	A1246	262.465	142.512	4.204	1.00	117.67	A16S
ATOM	26279	O2P C	A1246	260.410	141.377	3.166	1.00	117.67	A16S
ATOM	26280	O5* C	A1246	261.410	143.423	2.125	1.00	96.81	A16S
ATOM	26281	C5* C	A1246	262.483	144.310	1.761	1.00	96.81	A16S
ATOM	26282	C4* C	A1246	262.025	145.290	0.705	1.00	96.81	A16S
ATOM	26283	O4* C	A1246	261.784	144.590	-0.546	1.00	96.81	A16S
ATOM	26284	C1* C	A1246	260.689	145.195	-1.235	1.00	96.81	A16S
ATOM	26285	N1 C	A1246	259.572	144.220	-1.307	1.00	117.67	A16S
ATOM	26286	C6 C	A1246	259.462	143.208	-0.388	1.00	117.67	A16S
ATOM	26287	C2 C	A1246	258.602	144.359	-2.324	1.00	117.67	A16S
ATOM	26288	O2 C	A1246	258.720	145.269	-3.160	1.00	117.67	A16S
ATOM	26289	N3 C	A1246	257.565	143.498	-2.363	1.00	117.67	A16S
ATOM	26290	C4 C	A1246	257.466	142.528	-1.451	1.00	117.67	A16S
ATOM	26291	N4 C	A1246	256.418	141.714	-1.524	1.00	117.67	A16S
ATOM	26292	C5 C	A1246	258.437	142.352	-0.422	1.00	117.67	A16S
ATOM	26293	C2* C	A1246	260.266	146.417	-0.423	1.00	96.81	A16S
ATOM	26294	O2* C	A1246	260.899	147.591	-0.907	1.00	96.81	A16S
ATOM	26295	C3* C	A1246	260.711	146.001	0.972	1.00	96.81	A16S
ATOM	26296	O3* C	A1246	260.787	147.080	1.877	1.00	96.81	A16S
ATOM	26297	P U	A1247	259.517	147.400	2.808	1.00	84.00	A16S
ATOM	26298	O1P U	A1247	259.929	148.423	3.794	1.00	82.92	A16S
ATOM	26299	O2P U	A1247	258.965	146.100	3.287	1.00	82.92	A16S
ATOM	26300	O5* U	A1247	258.482	148.071	1.800	1.00	84.00	A16S
ATOM	26301	C5* U	A1247	258.870	149.204	1.000	1.00	84.00	A16S
ATOM	26302	C4* U	A1247	257.813	149.502	-0.036	1.00	84.00	A16S
ATOM	26303	O4* U	A1247	257.776	148.429	-1.016	1.00	84.00	A16S
ATOM	26304	C1* U	A1247	256.431	148.187	-1.415	1.00	84.00	A16S
ATOM	26305	N1 U	A1247	256.028	146.856	-0.926	1.00	82.92	A16S
ATOM	26306	C6 U	A1247	256.630	146.275	0.174	1.00	82.92	A16S
ATOM	26307	C2 U	A1247	255.004	146.209	-1.592	1.00	82.92	A16S
ATOM	26308	O2 U	A1247	254.447	146.683	-2.568	1.00	82.92	A16S
ATOM	26309	N3 U	A1247	254.652	144.989	-1.067	1.00	82.92	A16S
ATOM	26310	C4 U	A1247	255.202	144.366	0.033	1.00	82.92	A16S
ATOM	26311	O4 U	A1247	254.750	143.284	0.405	1.00	82.92	A16S
ATOM	26312	C5 U	A1247	256.259	145.089	0.662	1.00	82.92	A16S
ATOM	26313	C2* U	A1247	255.567	149.266	-0.767	1.00	84.00	A16S
ATOM	26314	O2* U	A1247	255.425	150.360	-1.656	1.00	84.00	A16S
ATOM	26315	C3* U	A1247	256.385	149.581	0.481	1.00	84.00	A16S
ATOM	26316	O3* U	A1247	256.057	150.819	1.092	1.00	84.00	A16S
ATOM	26317	P A	A1248	254.839	150.879	2.138	1.00	97.85	A16S
ATOM	26318	O1P A	A1248	254.900	152.213	2.789	1.00	99.79	A16S
ATOM	26319	O2P A	A1248	254.861	149.646	2.979	1.00	99.79	A16S
ATOM	26320	O5* A	A1248	253.555	150.846	1.193	1.00	97.85	A16S
ATOM	26321	C5* A	A1248	253.404	151.842	0.158	1.00	97.85	A16S
ATOM	26322	C4* A	A1248	252.058	151.733	-0.530	1.00	97.85	A16S
ATOM	26323	O4* A	A1248	252.040	150.672	-1.522	1.00	97.85	A16S
ATOM	26324	C1* A	A1248	250.711	150.219	-1.696	1.00	97.85	A16S
ATOM	26325	N9 A	A1248	250.664	148.790	-1.396	1.00	99.79	A16S
ATOM	26326	C4 A	A1248	249.765	147.872	-1.898	1.00	99.79	A16S
ATOM	26327	N3 A	A1248	248.775	148.091	-2.785	1.00	99.79	A16S

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ATOM	26328	C2	A	A1248	248.099	146.967	-3.023	1.00	99.79	A16S
ATOM	26329	N1	A	A1248	248.284	145.740	-2.512	1.00	99.79	A16S
ATOM	26330	C6	A	A1248	249.287	145.552	-1.622	1.00	99.79	A16S
ATOM	26331	N6	A	A1248	249.471	144.329	-1.103	1.00	99.79	A16S
ATOM	26332	C5	A	A1248	250.081	146.665	-1.290	1.00	99.79	A16S
ATOM	26333	N7	A	A1248	251.166	146.813	-0.437	1.00	99.79	A16S
ATOM	26334	C8	A	A1248	251.477	148.086	-0.538	1.00	99.79	A16S
ATOM	26335	C2*	A	A1248	249.820	151.023	-0.745	1.00	97.85	A16S
ATOM	26336	O2*	A	A1248	249.250	152.117	-1.437	1.00	97.85	A16S
ATOM	26337	C3*	A	A1248	250.816	151.493	0.309	1.00	97.85	A16S
ATOM	26338	O3*	A	A1248	250.369	152.684	0.953	1.00	97.85	A16S
ATOM	26339	P	C	A1249	249.102	152.627	1.948	1.00	102.80	A16S
ATOM	26340	O1P	C	A1249	248.950	153.943	2.628	1.00	70.93	A16S
ATOM	26341	O2P	C	A1249	249.181	151.381	2.774	1.00	70.93	A16S
ATOM	26342	O5*	C	A1249	247.876	152.520	0.942	1.00	102.80	A16S
ATOM	26343	C5*	C	A1249	246.557	152.299	1.434	1.00	102.80	A16S
ATOM	26344	C4*	C	A1249	245.565	152.298	0.301	1.00	102.80	A16S
ATOM	26345	O4*	C	A1249	246.088	151.531	-0.813	1.00	102.80	A16S
ATOM	26346	C1*	C	A1249	245.120	150.587	-1.239	1.00	102.80	A16S
ATOM	26347	N1	C	A1249	245.575	149.255	-0.779	1.00	70.93	A16S
ATOM	26348	C6	C	A1249	246.619	149.145	0.101	1.00	70.93	A16S
ATOM	26349	C2	C	A1249	244.916	148.101	-1.243	1.00	70.93	A16S
ATOM	26350	O2	C	A1249	243.974	148.220	-2.068	1.00	70.93	A16S
ATOM	26351	N3	C	A1249	245.328	146.887	-0.784	1.00	70.93	A16S
ATOM	26352	C4	C	A1249	246.346	146.805	0.081	1.00	70.93	A16S
ATOM	26353	N4	C	A1249	246.718	145.596	0.507	1.00	70.93	A16S
ATOM	26354	C5	C	A1249	247.030	147.956	0.549	1.00	70.93	A16S
ATOM	26355	C2*	C	A1249	243.789	150.996	-0.596	1.00	102.80	A16S
ATOM	26356	O2*	C	A1249	243.085	151.899	-1.426	1.00	102.80	A16S
ATOM	26357	C3*	C	A1249	244.273	151.617	0.704	1.00	102.80	A16S
ATOM	26358	O3*	C	A1249	243.386	152.534	1.312	1.00	102.80	A16S
ATOM	26359	P	A	A1250	243.006	152.349	2.863	1.00	97.95	A16S
ATOM	26360	O1P	A	A1250	242.328	153.616	3.243	1.00	60.69	A16S
ATOM	26361	O2P	A	A1250	244.194	151.877	3.642	1.00	60.69	A16S
ATOM	26362	O5*	A	A1250	241.941	151.160	2.869	1.00	97.95	A16S
ATOM	26363	C5*	A	A1250	241.068	150.971	1.748	1.00	97.95	A16S
ATOM	26364	C4*	A	A1250	239.994	149.944	2.039	1.00	97.95	A16S
ATOM	26365	O4*	A	A1250	240.499	148.589	1.972	1.00	97.95	A16S
ATOM	26366	C1*	A	A1250	239.539	147.734	2.556	1.00	97.95	A16S
ATOM	26367	N9	A	A1250	240.178	146.719	3.395	1.00	60.69	A16S
ATOM	26368	C4	A	A1250	239.680	145.447	3.564	1.00	60.69	A16S
ATOM	26369	N3	A	A1250	238.572	144.931	3.008	1.00	60.69	A16S
ATOM	26370	C2	A	A1250	238.395	143.679	3.398	1.00	60.69	A16S
ATOM	26371	N1	A	A1250	239.141	142.930	4.219	1.00	60.69	A16S
ATOM	26372	C6	A	A1250	240.242	143.473	4.765	1.00	60.69	A16S
ATOM	26373	N6	A	A1250	240.971	142.715	5.588	1.00	60.69	A16S
ATOM	26374	C5	A	A1250	240.545	144.810	4.431	1.00	60.69	A16S
ATOM	26375	N7	A	A1250	241.571	145.666	4.810	1.00	60.69	A16S
ATOM	26376	C8	A	A1250	241.310	146.782	4.165	1.00	60.69	A16S
ATOM	26377	C2*	A	A1250	238.550	148.604	3.328	1.00	97.95	A16S
ATOM	26378	O2*	A	A1250	237.369	148.633	2.555	1.00	97.95	A16S
ATOM	26379	C3*	A	A1250	239.264	149.955	3.368	1.00	97.95	A16S
ATOM	26380	O3*	A	A1250	238.323	151.020	3.482	1.00	97.95	A16S
ATOM	26381	P	A	A1251	237.767	151.443	4.940	1.00	80.59	A16S
ATOM	26382	O1P	A	A1251	237.176	152.808	4.813	1.00	58.58	A16S
ATOM	26383	O2P	A	A1251	238.815	151.174	5.972	1.00	58.58	A16S
ATOM	26384	O5*	A	A1251	236.591	150.410	5.242	1.00	80.59	A16S
ATOM	26385	C5*	A	A1251	235.488	150.260	4.336	1.00	80.59	A16S
ATOM	26386	C4*	A	A1251	234.811	148.930	4.555	1.00	80.59	A16S
ATOM	26387	O4*	A	A1251	235.750	147.853	4.333	1.00	80.59	A16S
ATOM	26388	C1*	A	A1251	235.453	146.780	5.195	1.00	80.59	A16S
ATOM	26389	N9	A	A1251	236.668	146.429	5.925	1.00	58.58	A16S
ATOM	26390	C4	A	A1251	237.016	145.173	6.370	1.00	58.58	A16S
ATOM	26391	N3	A	A1251	236.305	144.038	6.255	1.00	58.58	A16S
ATOM	26392	C2	A	A1251	236.970	143.005	6.788	1.00	58.58	A16S
ATOM	26393	N1	A	A1251	238.171	142.979	7.378	1.00	58.58	A16S
ATOM	26394	C6	A	A1251	238.860	144.133	7.483	1.00	58.58	A16S
ATOM	26395	N6	A	A1251	240.058	144.100	8.076	1.00	58.58	A16S
ATOM	26396	C5	A	A1251	238.264	145.309	6.952	1.00	58.58	A16S
ATOM	26397	N7	A	A1251	238.690	146.629	6.887	1.00	58.58	A16S
ATOM	26398	C8	A	A1251	237.705	147.251	6.279	1.00	58.58	A16S
ATOM	26399	C2*	A	A1251	234.245	147.174	6.043	1.00	80.59	A16S
ATOM	26400	O2*	A	A1251	233.096	146.660	5.411	1.00	80.59	A16S
ATOM	26401	C3*	A	A1251	234.266	148.693	5.948	1.00	80.59	A16S
ATOM	26402	O3*	A	A1251	232.953	149.234	6.006	1.00	80.59	A16S
ATOM	26403	P	A	A1252	232.339	149.703	7.415	1.00	79.66	A16S
ATOM	26404	O1P	A	A1252	231.109	150.490	7.093	1.00	73.10	A16S

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ATOM	26405	O2P	A	A1252	233.418	150.323	8.220	1.00	73.10	A16S
ATOM	26406	O5*	A	A1252	231.944	148.343	8.153	1.00	79.66	A16S
ATOM	26407	C5*	A	A1252	230.949	147.452	7.607	1.00	79.66	A16S
ATOM	26408	C4*	A	A1252	231.123	146.063	8.177	1.00	79.66	A16S
ATOM	26409	O4*	A	A1252	232.417	145.540	7.790	1.00	79.66	A16S
ATOM	26410	C1*	A	A1252	232.947	144.748	8.834	1.00	79.66	A16S
ATOM	26411	N9	A	A1252	234.252	145.282	9.215	1.00	73.10	A16S
ATOM	26412	C4	A	A1252	235.261	144.554	9.799	1.00	73.10	A16S
ATOM	26413	N3	A	A1252	235.237	143.250	10.140	1.00	73.10	A16S
ATOM	26414	C2	A	A1252	236.404	142.878	10.666	1.00	73.10	A16S
ATOM	26415	N1	A	A1252	237.508	143.607	10.873	1.00	73.10	A16S
ATOM	26416	C6	A	A1252	237.497	144.915	10.516	1.00	73.10	A16S
ATOM	26417	N6	A	A1252	238.600	145.642	10.710	1.00	73.10	A16S
ATOM	26418	C5	A	A1252	236.316	145.433	9.953	1.00	73.10	A16S
ATOM	26419	N7	A	A1252	235.974	146.698	9.491	1.00	73.10	A16S
ATOM	26420	C8	A	A1252	234.743	146.558	9.070	1.00	73.10	A16S
ATOM	26421	C2*	A	A1252	231.944	144.732	9.983	1.00	79.66	A16S
ATOM	26422	O2*	A	A1252	231.230	143.520	9.923	1.00	79.66	A16S
ATOM	26423	C3*	A	A1252	231.111	145.979	9.691	1.00	79.66	A16S
ATOM	26424	O3*	A	A1252	229.778	145.881	10.169	1.00	79.66	A16S
ATOM	26425	P	G	A1253	229.490	145.976	11.748	1.00	63.64	A16S
ATOM	26426	O1P	G	A1253	228.005	146.016	11.928	1.00	67.46	A16S
ATOM	26427	O2P	G	A1253	230.337	147.059	12.320	1.00	67.46	A16S
ATOM	26428	O5*	G	A1253	230.032	144.591	12.312	1.00	63.64	A16S
ATOM	26429	C5*	G	A1253	230.553	144.484	13.635	1.00	63.64	A16S
ATOM	26430	C4*	G	A1253	231.454	143.291	13.711	1.00	63.64	A16S
ATOM	26431	O4*	G	A1253	232.575	143.477	12.811	1.00	63.64	A16S
ATOM	26432	C1*	G	A1253	233.733	142.868	13.367	1.00	63.64	A16S
ATOM	26433	N9	G	A1253	234.783	143.882	13.516	1.00	67.46	A16S
ATOM	26434	C4	G	A1253	236.054	143.673	14.015	1.00	67.46	A16S
ATOM	26435	N3	G	A1253	236.553	142.495	14.453	1.00	67.46	A16S
ATOM	26436	C2	G	A1253	237.800	142.609	14.871	1.00	67.46	A16S
ATOM	26437	N2	G	A1253	238.450	141.537	15.334	1.00	67.46	A16S
ATOM	26438	N1	G	A1253	238.504	143.782	14.865	1.00	67.46	A16S
ATOM	26439	C6	G	A1253	238.016	145.008	14.422	1.00	67.46	A16S
ATOM	26440	O6	G	A1253	238.741	146.012	14.464	1.00	67.46	A16S
ATOM	26441	C5	G	A1253	236.673	144.903	13.964	1.00	67.46	A16S
ATOM	26442	N7	G	A1253	235.818	145.868	13.444	1.00	67.46	A16S
ATOM	26443	C8	G	A1253	234.712	145.221	13.193	1.00	67.46	A16S
ATOM	26444	C2*	G	A1253	233.322	142.217	14.693	1.00	63.64	A16S
ATOM	26445	O2*	G	A1253	233.029	140.847	14.492	1.00	63.64	A16S
ATOM	26446	C3*	G	A1253	232.086	143.024	15.059	1.00	63.64	A16S
ATOM	26447	O3*	G	A1253	231.202	142.295	15.881	1.00	63.64	A16S
ATOM	26448	P	C	A1254	231.014	142.726	17.411	1.00	91.27	A16S
ATOM	26449	O1P	C	A1254	229.749	142.103	17.880	1.00	75.05	A16S
ATOM	26450	O2P	C	A1254	231.186	144.205	17.487	1.00	75.05	A16S
ATOM	26451	O5*	C	A1254	232.208	141.996	18.169	1.00	91.27	A16S
ATOM	26452	C5*	C	A1254	232.275	140.562	18.210	1.00	91.27	A16S
ATOM	26453	C4*	C	A1254	233.667	140.122	18.571	1.00	91.27	A16S
ATOM	26454	O4*	C	A1254	234.594	140.562	17.546	1.00	91.27	A16S
ATOM	26455	C1*	C	A1254	235.828	140.934	18.142	1.00	91.27	A16S
ATOM	26456	N1	C	A1254	236.074	142.357	17.859	1.00	75.05	A16S
ATOM	26457	C6	C	A1254	235.072	143.165	17.399	1.00	75.05	A16S
ATOM	26458	C2	C	A1254	237.357	142.877	18.075	1.00	75.05	A16S
ATOM	26459	O2	C	A1254	238.251	142.119	18.486	1.00	75.05	A16S
ATOM	26460	N3	C	A1254	237.588	144.190	17.833	1.00	75.05	A16S
ATOM	26461	C4	C	A1254	236.594	144.973	17.393	1.00	75.05	A16S
ATOM	26462	N4	C	A1254	236.853	146.272	17.180	1.00	75.05	A16S
ATOM	26463	C5	C	A1254	235.284	144.464	17.155	1.00	75.05	A16S
ATOM	26464	C2*	C	A1254	235.722	140.661	19.640	1.00	91.27	A16S
ATOM	26465	O2*	C	A1254	236.282	139.392	19.918	1.00	91.27	A16S
ATOM	26466	C3*	C	A1254	234.214	140.725	19.853	1.00	91.27	A16S
ATOM	26467	O3*	C	A1254	233.776	140.004	20.993	1.00	91.27	A16S
ATOM	26468	P	G	A1255	233.436	140.799	22.347	1.00	95.00	A16S
ATOM	26469	O1P	G	A1255	232.669	139.868	23.219	1.00	64.89	A16S
ATOM	26470	O2P	G	A1255	232.851	142.123	21.978	1.00	64.89	A16S
ATOM	26471	O5*	G	A1255	234.866	141.031	23.014	1.00	95.00	A16S
ATOM	26472	C5*	G	A1255	235.693	139.908	23.386	1.00	95.00	A16S
ATOM	26473	C4*	G	A1255	237.097	140.363	23.718	1.00	95.00	A16S
ATOM	26474	O4*	G	A1255	237.692	141.004	22.562	1.00	95.00	A16S
ATOM	26475	C1*	G	A1255	238.583	142.016	22.984	1.00	95.00	A16S
ATOM	26476	N9	G	A1255	238.191	143.282	22.371	1.00	64.89	A16S
ATOM	26477	C4	G	A1255	238.982	144.404	22.244	1.00	64.89	A16S
ATOM	26478	N3	G	A1255	240.256	144.530	22.674	1.00	64.89	A16S
ATOM	26479	C2	G	A1255	240.748	145.733	22.416	1.00	64.89	A16S
ATOM	26480	N2	G	A1255	241.999	146.040	22.786	1.00	64.89	A16S
ATOM	26481	N1	G	A1255	240.051	146.727	21.783	1.00	64.89	A16S

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ATOM	26482	C6	G	A1255	238.741	146.626	21.339	1.00	64.89	A16S
ATOM	26483	O6	G	A1255	238.202	147.599	20.799	1.00	64.89	A16S
ATOM	26484	C5	G	A1255	238.196	145.339	21.605	1.00	64.89	A16S
ATOM	26485	N7	G	A1255	236.937	144.819	21.332	1.00	64.89	A16S
ATOM	26486	C8	G	A1255	236.980	143.600	21.804	1.00	64.89	A16S
ATOM	26487	C2*	G	A1255	238.570	142.041	24.511	1.00	95.00	A16S
ATOM	26488	O2*	G	A1255	239.649	141.252	24.965	1.00	95.00	A16S
ATOM	26489	C3*	G	A1255	237.230	141.390	24.827	1.00	95.00	A16S
ATOM	26490	O3*	G	A1255	237.236	140.766	26.107	1.00	95.00	A16S
ATOM	26491	P	A	A1256	236.089	141.134	27.172	1.00142.61		A16S
ATOM	26492	O1P	A	A1256	234.922	140.278	26.854	1.00112.46		A16S
ATOM	26493	O2P	A	A1256	235.931	142.610	27.192	1.00112.46		A16S
ATOM	26494	O5*	A	A1256	236.672	140.657	28.577	1.00142.61		A16S
ATOM	26495	C5*	A	A1256	237.317	139.374	28.715	1.00142.61		A16S
ATOM	26496	C4*	A	A1256	238.008	139.269	30.059	1.00142.61		A16S
ATOM	26497	O4*	A	A1256	238.845	140.439	30.243	1.00142.61		A16S
ATOM	26498	C1*	A	A1256	238.863	140.807	31.606	1.00142.61		A16S
ATOM	26499	N9	A	A1256	238.508	142.221	31.712	1.00112.46		A16S
ATOM	26500	C4	A	A1256	239.177	143.261	31.110	1.00112.46		A16S
ATOM	26501	N3	A	A1256	240.234	143.187	30.282	1.00112.46		A16S
ATOM	26502	C2	A	A1256	240.644	144.406	29.929	1.00112.46		A16S
ATOM	26503	N1	A	A1256	240.160	145.600	30.285	1.00112.46		A16S
ATOM	26504	C6	A	A1256	239.096	145.638	31.118	1.00112.46		A16S
ATOM	26505	N6	A	A1256	238.618	146.826	31.492	1.00112.46		A16S
ATOM	26506	C5	A	A1256	238.556	144.413	31.553	1.00112.46		A16S
ATOM	26507	N7	A	A1256	237.487	144.106	32.384	1.00112.46		A16S
ATOM	26508	C8	A	A1256	237.498	142.798	32.439	1.00112.46		A16S
ATOM	26509	C2*	A	A1256	237.986	139.830	32.393	1.00142.61		A16S
ATOM	26510	O2*	A	A1256	238.846	138.947	33.073	1.00142.61		A16S
ATOM	26511	C3*	A	A1256	237.110	139.223	31.289	1.00142.61		A16S
ATOM	26512	O3*	A	A1256	236.600	137.876	31.447	1.00142.61		A16S
ATOM	26513	P	U	A1257	236.871	137.015	32.794	1.00197.98		A16S
ATOM	26514	O1P	U	A1257	235.998	135.816	32.703	1.00197.98		A16S
ATOM	26515	O2P	U	A1257	236.787	137.886	33.997	1.00197.98		A16S
ATOM	26516	O5*	U	A1257	238.371	136.497	32.627	1.00197.98		A16S
ATOM	26517	C5*	U	A1257	238.938	136.316	31.317	1.00197.98		A16S
ATOM	26518	C4*	U	A1257	240.433	136.530	31.348	1.00197.98		A16S
ATOM	26519	O4*	U	A1257	240.737	137.676	32.187	1.00197.98		A16S
ATOM	26520	C1*	U	A1257	241.963	137.466	32.872	1.00197.98		A16S
ATOM	26521	N1	U	A1257	241.720	137.500	34.323	1.00197.98		A16S
ATOM	26522	C6	U	A1257	240.508	137.123	34.864	1.00197.98		A16S
ATOM	26523	C2	U	A1257	242.762	137.919	35.138	1.00197.98		A16S
ATOM	26524	O2	U	A1257	243.853	138.261	34.704	1.00197.98		A16S
ATOM	26525	N3	U	A1257	242.479	137.920	36.481	1.00197.98		A16S
ATOM	26526	C4	U	A1257	241.293	137.553	37.083	1.00197.98		A16S
ATOM	26527	O4	U	A1257	241.197	137.603	38.310	1.00197.98		A16S
ATOM	26528	C5	U	A1257	240.267	137.134	36.177	1.00197.98		A16S
ATOM	26529	C2*	U	A1257	242.536	136.128	32.412	1.00197.98		A16S
ATOM	26530	O2*	U	A1257	243.523	136.404	31.443	1.00197.98		A16S
ATOM	26531	C3*	U	A1257	241.278	135.407	31.926	1.00197.98		A16S
ATOM	26532	O3*	U	A1257	241.446	134.324	30.999	1.00197.98		A16S
ATOM	26533	P	G	A1258	242.295	134.517	29.641	1.00111.49		A16S
ATOM	26534	O1P	G	A1258	241.951	133.329	28.811	1.00136.94		A16S
ATOM	26535	O2P	G	A1258	243.725	134.798	29.935	1.00136.94		A16S
ATOM	26536	O5*	G	A1258	241.633	135.797	28.952	1.00111.49		A16S
ATOM	26537	C5*	G	A1258	240.357	135.693	28.288	1.00111.49		A16S
ATOM	26538	C4*	G	A1258	240.193	136.799	27.275	1.00111.49		A16S
ATOM	26539	O4*	G	A1258	239.927	138.053	27.950	1.00111.49		A16S
ATOM	26540	C1*	G	A1258	240.483	139.124	27.202	1.00111.49		A16S
ATOM	26541	N9	G	A1258	241.493	139.795	28.018	1.00136.94		A16S
ATOM	26542	C4	G	A1258	241.873	141.116	27.924	1.00136.94		A16S
ATOM	26543	N3	G	A1258	241.356	142.033	27.078	1.00136.94		A16S
ATOM	26544	C2	G	A1258	241.933	143.214	27.213	1.00136.94		A16S
ATOM	26545	N2	G	A1258	241.537	144.241	26.448	1.00136.94		A16S
ATOM	26546	N1	G	A1258	242.940	143.476	28.107	1.00136.94		A16S
ATOM	26547	C6	G	A1258	243.490	142.550	28.990	1.00136.94		A16S
ATOM	26548	O6	G	A1258	244.401	142.894	29.759	1.00136.94		A16S
ATOM	26549	C5	G	A1258	242.877	141.274	28.855	1.00136.94		A16S
ATOM	26550	N7	G	A1258	243.117	140.084	29.530	1.00136.94		A16S
ATOM	26551	C8	G	A1258	242.272	139.238	29.006	1.00136.94		A16S
ATOM	26552	C2*	G	A1258	241.114	138.532	25.943	1.00111.49		A16S
ATOM	26553	O2*	G	A1258	240.206	138.626	24.864	1.00111.49		A16S
ATOM	26554	C3*	G	A1258	241.388	137.100	26.383	1.00111.49		A16S
ATOM	26555	O3*	G	A1258	241.520	136.213	25.283	1.00111.49		A16S
ATOM	26556	P	C	A1259	242.924	136.127	24.500	1.00	84.72	A16S
ATOM	26557	O1P	C	A1259	242.821	134.976	23.566	1.00110.48		A16S
ATOM	26558	O2P	C	A1259	244.040	136.175	25.482	1.00110.48		A16S

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ATOM	26559	O5*	C	A1259	242.953	137.463	23.632	1.00	84.72	A16S
ATOM	26560	C5*	C	A1259	241.998	137.654	22.580	1.00	84.72	A16S
ATOM	26561	C4*	C	A1259	242.242	138.957	21.865	1.00	84.72	A16S
ATOM	26562	O4*	C	A1259	241.918	140.066	22.741	1.00	84.72	A16S
ATOM	26563	C1*	C	A1259	242.785	141.158	22.469	1.00	84.72	A16S
ATOM	26564	N1	C	A1259	243.561	141.460	23.692	1.00110.48		A16S
ATOM	26565	C6	C	A1259	243.912	140.461	24.561	1.00110.48		A16S
ATOM	26566	C2	C	A1259	243.950	142.789	23.946	1.00110.48		A16S
ATOM	26567	O2	C	A1259	243.617	143.686	23.151	1.00110.48		A16S
ATOM	26568	N3	C	A1259	244.682	143.057	25.047	1.00110.48		A16S
ATOM	26569	C4	C	A1259	245.029	142.069	25.877	1.00110.48		A16S
ATOM	26570	N4	C	A1259	245.767	142.380	26.943	1.00110.48		A16S
ATOM	26571	C5	C	A1259	244.639	140.719	25.651	1.00110.48		A16S
ATOM	26572	C2*	C	A1259	243.694	140.750	21.306	1.00	84.72	A16S
ATOM	26573	O2*	C	A1259	243.162	141.252	20.094	1.00	84.72	A16S
ATOM	26574	C3*	C	A1259	243.666	139.228	21.414	1.00	84.72	A16S
ATOM	26575	O3*	C	A1259	243.991	138.579	20.196	1.00	84.72	A16S
ATOM	26576	P	C	A1260	245.482	138.034	19.978	1.00111.72		A16S
ATOM	26577	O1P	C	A1260	245.614	137.564	18.578	1.00	93.86	A16S
ATOM	26578	O2P	C	A1260	245.807	137.114	21.108	1.00	93.86	A16S
ATOM	26579	O5*	C	A1260	246.359	139.350	20.114	1.00111.72		A16S
ATOM	26580	C5*	C	A1260	247.736	139.290	20.501	1.00111.72		A16S
ATOM	26581	C4*	C	A1260	248.132	140.584	21.162	1.00111.72		A16S
ATOM	26582	O4*	C	A1260	247.395	140.742	22.402	1.00111.72		A16S
ATOM	26583	C1*	C	A1260	248.211	141.385	23.366	1.00111.72		A16S
ATOM	26584	N1	C	A1260	248.345	140.494	24.544	1.00	93.86	A16S
ATOM	26585	C6	C	A1260	248.081	139.154	24.447	1.00	93.86	A16S
ATOM	26586	C2	C	A1260	248.741	141.047	25.781	1.00	93.86	A16S
ATOM	26587	O2	C	A1260	248.977	142.264	25.857	1.00	93.86	A16S
ATOM	26588	N3	C	A1260	248.850	140.240	26.862	1.00	93.86	A16S
ATOM	26589	C4	C	A1260	248.577	138.939	26.754	1.00	93.86	A16S
ATOM	26590	N4	C	A1260	248.681	138.190	27.855	1.00	93.86	A16S
ATOM	26591	C5	C	A1260	248.180	138.350	25.516	1.00	93.86	A16S
ATOM	26592	C2*	C	A1260	249.533	141.739	22.682	1.00111.72		A16S
ATOM	26593	O2*	C	A1260	249.422	143.053	22.167	1.00111.72		A16S
ATOM	26594	C3*	C	A1260	249.589	140.705	21.563	1.00111.72		A16S
ATOM	26595	O3*	C	A1260	250.356	141.138	20.448	1.00111.72		A16S
ATOM	26596	P	A	A1261	251.953	141.267	20.573	1.00	91.92	A16S
ATOM	26597	O1P	A	A1261	252.545	140.609	19.379	1.00109.87		A16S
ATOM	26598	O2P	A	A1261	252.365	140.819	21.932	1.00109.87		A16S
ATOM	26599	O5*	A	A1261	252.184	142.840	20.438	1.00	91.92	A16S
ATOM	26600	C5*	A	A1261	251.374	143.621	19.530	1.00	91.92	A16S
ATOM	26601	C4*	A	A1261	251.576	145.105	19.763	1.00	91.92	A16S
ATOM	26602	O4*	A	A1261	251.099	145.477	21.084	1.00	91.92	A16S
ATOM	26603	C1*	A	A1261	251.917	146.508	21.618	1.00	91.92	A16S
ATOM	26604	N9	A	A1261	252.521	146.023	22.867	1.00109.87		A16S
ATOM	26605	C4	A	A1261	253.360	146.723	23.706	1.00109.87		A16S
ATOM	26606	N3	A	A1261	253.790	147.989	23.564	1.00109.87		A16S
ATOM	26607	C2	A	A1261	254.586	148.329	24.577	1.00109.87		A16S
ATOM	26608	N1	A	A1261	254.973	147.602	25.635	1.00109.87		A16S
ATOM	26609	C6	A	A1261	254.524	146.333	25.746	1.00109.87		A16S
ATOM	26610	N6	A	A1261	254.911	145.605	26.796	1.00109.87		A16S
ATOM	26611	C5	A	A1261	253.671	145.853	24.739	1.00109.87		A16S
ATOM	26612	N7	A	A1261	253.040	144.633	24.561	1.00109.87		A16S
ATOM	26613	C8	A	A1261	252.372	144.783	23.443	1.00109.87		A16S
ATOM	26614	C2*	A	A1261	252.945	146.884	20.546	1.00	91.92	A16S
ATOM	26615	O2*	A	A1261	252.469	148.003	19.819	1.00	91.92	A16S
ATOM	26616	C3*	A	A1261	253.008	145.607	19.712	1.00	91.92	A16S
ATOM	26617	O3*	A	A1261	253.422	145.856	18.375	1.00	91.92	A16S
ATOM	26618	P	C	A1262	254.844	145.300	17.868	1.00133.35		A16S
ATOM	26619	O1P	C	A1262	255.161	146.055	16.622	1.00	97.91	A16S
ATOM	26620	O2P	C	A1262	254.796	143.817	17.837	1.00	97.91	A16S
ATOM	26621	O5*	C	A1262	255.867	145.702	19.027	1.00133.35		A16S
ATOM	26622	C5*	C	A1262	256.372	147.053	19.159	1.00133.35		A16S
ATOM	26623	C4*	C	A1262	257.239	147.183	20.399	1.00133.35		A16S
ATOM	26624	O4*	C	A1262	256.428	146.989	21.585	1.00133.35		A16S
ATOM	26625	C1*	C	A1262	257.204	146.364	22.594	1.00133.35		A16S
ATOM	26626	N1	C	A1262	256.534	145.121	23.016	1.00	97.91	A16S
ATOM	26627	C6	C	A1262	255.632	144.489	22.204	1.00	97.91	A16S
ATOM	26628	C2	C	A1262	256.835	144.595	24.283	1.00	97.91	A16S
ATOM	26629	O2	C	A1262	257.688	145.161	24.985	1.00	97.91	A16S
ATOM	26630	N3	C	A1262	256.197	143.481	24.702	1.00	97.91	A16S
ATOM	26631	C4	C	A1262	255.309	142.883	23.910	1.00	97.91	A16S
ATOM	26632	N4	C	A1262	254.691	141.800	24.377	1.00	97.91	A16S
ATOM	26633	C5	C	A1262	255.008	143.376	22.604	1.00	97.91	A16S
ATOM	26634	C2*	C	A1262	258.614	146.137	22.049	1.00133.35		A16S
ATOM	26635	O2*	C	A1262	259.473	147.156	22.517	1.00133.35		A16S

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ATOM	26636	C3* C	A1262	258.380	146.182	20.544	1.00133.35	A16S
ATOM	26637	O3* C	A1262	259.547	146.608	19.853	1.00133.35	A16S
ATOM	26638	P C	A1263	260.680	145.535	19.466	1.00 99.67	A16S
ATOM	26639	O1P C	A1263	261.714	146.282	18.697	1.00115.31	A16S
ATOM	26640	O2P C	A1263	260.036	144.342	18.861	1.00115.31	A16S
ATOM	26641	O5* C	A1263	261.290	145.086	20.867	1.00 99.67	A16S
ATOM	26642	C5* C	A1263	262.223	145.924	21.571	1.00 99.67	A16S
ATOM	26643	C4* C	A1263	262.738	145.211	22.794	1.00 99.67	A16S
ATOM	26644	O4* C	A1263	261.651	145.014	23.731	1.00 99.67	A16S
ATOM	26645	C1* C	A1263	261.808	143.769	24.386	1.00 99.67	A16S
ATOM	26646	N1 C	A1263	260.605	142.954	24.139	1.00115.31	A16S
ATOM	26647	C6 C	A1263	259.756	143.242	23.106	1.00115.31	A16S
ATOM	26648	C2 C	A1263	260.344	141.867	24.984	1.00115.31	A16S
ATOM	26649	O2 C	A1263	261.129	141.624	25.914	1.00115.31	A16S
ATOM	26650	N3 C	A1263	259.247	141.110	24.766	1.00115.31	A16S
ATOM	26651	C4 C	A1263	258.427	141.400	23.754	1.00115.31	A16S
ATOM	26652	N4 C	A1263	257.358	140.624	23.578	1.00115.31	A16S
ATOM	26653	C5 C	A1263	258.668	142.498	22.879	1.00115.31	A16S
ATOM	26654	C2* C	A1263	263.096	143.118	23.874	1.00 99.67	A16S
ATOM	26655	O2* C	A1263	264.153	143.347	24.784	1.00 99.67	A16S
ATOM	26656	C3* C	A1263	263.292	143.820	22.536	1.00 99.67	A16S
ATOM	26657	O3* C	A1263	264.658	143.874	22.149	1.00 99.67	A16S
ATOM	26658	P C	A1264	265.258	142.733	21.188	1.00 85.51	A16S
ATOM	26659	O1P C	A1264	266.595	143.192	20.714	1.00117.28	A16S
ATOM	26660	O2P C	A1264	264.204	142.398	20.193	1.00117.28	A16S
ATOM	26661	O5* C	A1264	265.468	141.484	22.159	1.00 85.51	A16S
ATOM	26662	C5* C	A1264	266.376	141.574	23.265	1.00 85.51	A16S
ATOM	26663	C4* C	A1264	266.132	140.460	24.247	1.00 85.51	A16S
ATOM	26664	O4* C	A1264	264.789	140.553	24.780	1.00 85.51	A16S
ATOM	26665	C1* C	A1264	264.309	139.252	25.081	1.00 85.51	A16S
ATOM	26666	N1 C	A1264	263.054	139.019	24.340	1.00117.28	A16S
ATOM	26667	C6 C	A1264	262.668	139.857	23.329	1.00117.28	A16S
ATOM	26668	C2 C	A1264	262.257	137.905	24.680	1.00117.28	A16S
ATOM	26669	O2 C	A1264	262.610	137.165	25.618	1.00117.28	A16S
ATOM	26670	N3 C	A1264	261.128	137.667	23.977	1.00117.28	A16S
ATOM	26671	C4 C	A1264	260.774	138.484	22.982	1.00117.28	A16S
ATOM	26672	N4 C	A1264	259.662	138.198	22.303	1.00117.28	A16S
ATOM	26673	C5 C	A1264	261.549	139.629	22.632	1.00117.28	A16S
ATOM	26674	C2* C	A1264	265.405	138.249	24.710	1.00 85.51	A16S
ATOM	26675	O2* C	A1264	266.111	137.876	25.878	1.00 85.51	A16S
ATOM	26676	C3* C	A1264	266.234	139.046	23.708	1.00 85.51	A16S
ATOM	26677	O3* C	A1264	267.586	138.615	23.666	1.00 85.51	A16S
ATOM	26678	P G	A1265	268.077	137.643	22.484	1.00 99.12	A16S
ATOM	26679	O1P G	A1265	269.565	137.557	22.529	1.00 91.84	A16S
ATOM	26680	O2P G	A1265	267.406	138.087	21.234	1.00 91.84	A16S
ATOM	26681	O5* G	A1265	267.516	136.220	22.918	1.00 99.12	A16S
ATOM	26682	C5* G	A1265	268.075	135.548	24.052	1.00 99.12	A16S
ATOM	26683	C4* G	A1265	267.339	134.266	24.313	1.00 99.12	A16S
ATOM	26684	O4* G	A1265	265.984	134.564	24.733	1.00 99.12	A16S
ATOM	26685	C1* G	A1265	265.102	133.567	24.238	1.00 99.12	A16S
ATOM	26686	N9 G	A1265	264.109	134.206	23.371	1.00 91.84	A16S
ATOM	26687	C4 G	A1265	262.887	133.681	23.009	1.00 91.84	A16S
ATOM	26688	N3 G	A1265	262.401	132.476	23.381	1.00 91.84	A16S
ATOM	26689	C2 G	A1265	261.200	132.253	22.881	1.00 91.84	A16S
ATOM	26690	N2 G	A1265	260.584	131.096	23.143	1.00 91.84	A16S
ATOM	26691	N1 G	A1265	260.519	133.149	22.085	1.00 91.84	A16S
ATOM	26692	C6 G	A1265	260.996	134.398	21.690	1.00 91.84	A16S
ATOM	26693	O6 G	A1265	260.295	135.134	20.972	1.00 91.84	A16S
ATOM	26694	C5 G	A1265	262.296	134.643	22.210	1.00 91.84	A16S
ATOM	26695	N7 G	A1265	263.134	135.741	22.057	1.00 91.84	A16S
ATOM	26696	C8 G	A1265	264.195	135.439	22.759	1.00 91.84	A16S
ATOM	26697	C2* G	A1265	265.949	132.529	23.500	1.00 99.12	A16S
ATOM	26698	O2* G	A1265	266.286	131.465	24.372	1.00 99.12	A16S
ATOM	26699	C3* G	A1265	267.165	133.355	23.112	1.00 99.12	A16S
ATOM	26700	O3* G	A1265	268.301	132.554	22.853	1.00 99.12	A16S
ATOM	26701	P G	A1266	268.718	132.265	21.330	1.00126.33	A16S
ATOM	26702	O1P G	A1266	269.971	131.468	21.369	1.00 95.46	A16S
ATOM	26703	O2P G	A1266	268.686	133.561	20.591	1.00 95.46	A16S
ATOM	26704	O5* G	A1266	267.543	131.339	20.773	1.00126.33	A16S
ATOM	26705	C5* G	A1266	267.420	129.967	21.202	1.00126.33	A16S
ATOM	26706	C4* G	A1266	266.135	129.341	20.688	1.00126.33	A16S
ATOM	26707	O4* G	A1266	264.981	130.019	21.255	1.00126.33	A16S
ATOM	26708	C1* G	A1266	263.889	129.929	20.356	1.00126.33	A16S
ATOM	26709	N9 G	A1266	263.493	131.271	19.937	1.00 95.46	A16S
ATOM	26710	C4 G	A1266	262.253	131.627	19.468	1.00 95.46	A16S
ATOM	26711	N3 G	A1266	261.180	130.810	19.372	1.00 95.46	A16S
ATOM	26712	C2 G	A1266	260.131	131.428	18.854	1.00 95.46	A16S

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ATOM	26713	N2	G	A1266	258.978	130.752	18.686	1.00	95.46	A16S
ATOM	26714	N1	G	A1266	260.138	132.750	18.461	1.00	95.46	A16S
ATOM	26715	C6	G	A1266	261.232	133.609	18.551	1.00	95.46	A16S
ATOM	26716	O6	G	A1266	261.132	134.778	18.165	1.00	95.46	A16S
ATOM	26717	C5	G	A1266	262.362	132.957	19.108	1.00	95.46	A16S
ATOM	26718	N7	G	A1266	263.638	133.439	19.377	1.00	95.46	A16S
ATOM	26719	C8	G	A1266	264.271	132.409	19.876	1.00	95.46	A16S
ATOM	26720	C2*	G	A1266	264.358	129.130	19.142	1.00	126.33	A16S
ATOM	26721	O2*	G	A1266	264.013	127.771	19.317	1.00	126.33	A16S
ATOM	26722	C3*	G	A1266	265.864	129.354	19.189	1.00	126.33	A16S
ATOM	26723	O3*	G	A1266	266.547	128.331	18.477	1.00	126.33	A16S
ATOM	26724	P	C	A1267	267.344	128.699	17.126	1.00	99.60	A16S
ATOM	26725	O1P	C	A1267	267.912	127.423	16.606	1.00	77.34	A16S
ATOM	26726	O2P	C	A1267	268.240	129.858	17.387	1.00	77.34	A16S
ATOM	26727	O5*	C	A1267	266.238	129.226	16.107	1.00	99.60	A16S
ATOM	26728	C5*	C	A1267	266.595	130.175	15.076	1.00	99.60	A16S
ATOM	26729	C4*	C	A1267	265.788	129.930	13.818	1.00	99.60	A16S
ATOM	26730	O4*	C	A1267	266.042	128.591	13.323	1.00	99.60	A16S
ATOM	26731	C1*	C	A1267	264.854	128.056	12.770	1.00	99.60	A16S
ATOM	26732	N1	C	A1267	264.519	126.818	13.498	1.00	77.34	A16S
ATOM	26733	C6	C	A1267	264.965	126.613	14.775	1.00	77.34	A16S
ATOM	26734	C2	C	A1267	263.753	125.838	12.856	1.00	77.34	A16S
ATOM	26735	O2	C	A1267	263.327	126.059	11.708	1.00	77.34	A16S
ATOM	26736	N3	C	A1267	263.493	124.675	13.501	1.00	77.34	A16S
ATOM	26737	C4	C	A1267	263.956	124.479	14.737	1.00	77.34	A16S
ATOM	26738	N4	C	A1267	263.695	123.312	15.325	1.00	77.34	A16S
ATOM	26739	C5	C	A1267	264.711	125.470	15.423	1.00	77.34	A16S
ATOM	26740	C2*	C	A1267	263.776	129.140	12.831	1.00	99.60	A16S
ATOM	26741	O2*	C	A1267	263.777	129.837	11.603	1.00	99.60	A16S
ATOM	26742	C3*	C	A1267	264.278	130.018	13.968	1.00	99.60	A16S
ATOM	26743	O3*	C	A1267	263.845	131.364	13.821	1.00	99.60	A16S
ATOM	26744	P	A	A1268	262.978	132.048	14.986	1.00	92.05	A16S
ATOM	26745	O1P	A	A1268	262.801	133.492	14.651	1.00	70.10	A16S
ATOM	26746	O2P	A	A1268	263.589	131.659	16.284	1.00	70.10	A16S
ATOM	26747	O5*	A	A1268	261.562	131.318	14.898	1.00	92.05	A16S
ATOM	26748	C5*	A	A1268	260.677	131.524	13.767	1.00	92.05	A16S
ATOM	26749	C4*	A	A1268	259.589	130.468	13.746	1.00	92.05	A16S
ATOM	26750	O4*	A	A1268	260.210	129.165	13.695	1.00	92.05	A16S
ATOM	26751	C1*	A	A1268	259.485	128.255	14.488	1.00	92.05	A16S
ATOM	26752	N9	A	A1268	260.413	127.718	15.473	1.00	70.10	A16S
ATOM	26753	C4	A	A1268	260.419	126.451	15.998	1.00	70.10	A16S
ATOM	26754	N3	A	A1268	259.556	125.457	15.740	1.00	70.10	A16S
ATOM	26755	C2	A	A1268	259.891	124.354	16.413	1.00	70.10	A16S
ATOM	26756	N1	A	A1268	260.910	124.150	17.257	1.00	70.10	A16S
ATOM	26757	C6	A	A1268	261.755	125.176	17.500	1.00	70.10	A16S
ATOM	26758	N6	A	A1268	262.767	124.982	18.348	1.00	70.10	A16S
ATOM	26759	C5	A	A1268	261.513	126.397	16.840	1.00	70.10	A16S
ATOM	26760	N7	A	A1268	262.178	127.615	16.856	1.00	70.10	A16S
ATOM	26761	C8	A	A1268	261.483	128.363	16.037	1.00	70.10	A16S
ATOM	26762	C2*	A	A1268	258.251	128.971	15.040	1.00	92.05	A16S
ATOM	26763	O2*	A	A1268	257.158	128.669	14.196	1.00	92.05	A16S
ATOM	26764	C3*	A	A1268	258.670	130.437	14.956	1.00	92.05	A16S
ATOM	26765	O3*	A	A1268	257.563	131.296	14.691	1.00	92.05	A16S
ATOM	26766	P	A	A1269	256.635	131.810	15.897	1.00	66.31	A16S
ATOM	26767	O1P	A	A1269	255.766	132.912	15.365	1.00	81.46	A16S
ATOM	26768	O2P	A	A1269	257.525	132.080	17.049	1.00	81.46	A16S
ATOM	26769	O5*	A	A1269	255.750	130.532	16.282	1.00	66.31	A16S
ATOM	26770	C5*	A	A1269	254.694	130.051	15.412	1.00	66.31	A16S
ATOM	26771	C4*	A	A1269	254.096	128.777	15.966	1.00	66.31	A16S
ATOM	26772	O4*	A	A1269	255.121	127.764	16.012	1.00	66.31	A16S
ATOM	26773	C1*	A	A1269	254.942	126.951	17.153	1.00	66.31	A16S
ATOM	26774	N9	A	A1269	256.181	126.955	17.924	1.00	81.46	A16S
ATOM	26775	C4	A	A1269	256.836	125.836	18.380	1.00	81.46	A16S
ATOM	26776	N3	A	A1269	256.476	124.551	18.202	1.00	81.46	A16S
ATOM	26777	C2	A	A1269	257.356	123.731	18.777	1.00	81.46	A16S
ATOM	26778	N1	A	A1269	258.467	124.026	19.464	1.00	81.46	A16S
ATOM	26779	C6	A	A1269	258.800	125.326	19.626	1.00	81.46	A16S
ATOM	26780	N6	A	A1269	259.910	125.616	20.312	1.00	81.46	A16S
ATOM	26781	C5	A	A1269	257.947	126.299	19.056	1.00	81.46	A16S
ATOM	26782	N7	A	A1269	257.995	127.688	19.024	1.00	81.46	A16S
ATOM	26783	C8	A	A1269	256.928	128.026	18.343	1.00	81.46	A16S
ATOM	26784	C2*	A	A1269	253.723	127.452	17.923	1.00	66.31	A16S
ATOM	26785	O2*	A	A1269	252.634	126.594	17.657	1.00	66.31	A16S
ATOM	26786	C3*	A	A1269	253.567	128.872	17.387	1.00	66.31	A16S
ATOM	26787	O3*	A	A1269	252.197	129.246	17.360	1.00	66.31	A16S
ATOM	26788	P	C	A1270	251.686	130.486	18.238	1.00	77.58	A16S
ATOM	26789	O1P	C	A1270	250.214	130.313	18.339	1.00	79.13	A16S

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ATOM	26790	O2P	C	A1270	252.238	131.736	17.647	1.00	79.13	A16S
ATOM	26791	O5*	C	A1270	252.348	130.266	19.678	1.00	77.58	A16S
ATOM	26792	C5*	C	A1270	252.117	129.056	20.432	1.00	77.58	A16S
ATOM	26793	C4*	C	A1270	253.321	128.724	21.295	1.00	77.58	A16S
ATOM	26794	O4*	C	A1270	254.518	128.906	20.491	1.00	77.58	A16S
ATOM	26795	C1*	C	A1270	255.593	129.332	21.315	1.00	77.58	A16S
ATOM	26796	N1	C	A1270	256.021	130.684	20.895	1.00	79.13	A16S
ATOM	26797	C6	C	A1270	255.197	131.490	20.154	1.00	79.13	A16S
ATOM	26798	C2	C	A1270	257.297	131.144	21.282	1.00	79.13	A16S
ATOM	26799	O2	C	A1270	258.034	130.395	21.949	1.00	79.13	A16S
ATOM	26800	N3	C	A1270	257.690	132.390	20.917	1.00	79.13	A16S
ATOM	26801	C4	C	A1270	256.873	133.166	20.194	1.00	79.13	A16S
ATOM	26802	N4	C	A1270	257.305	134.387	19.849	1.00	79.13	A16S
ATOM	26803	C5	C	A1270	255.578	132.725	19.788	1.00	79.13	A16S
ATOM	26804	C2*	C	A1270	255.085	129.345	22.752	1.00	77.58	A16S
ATOM	26805	O2*	C	A1270	255.377	128.096	23.359	1.00	77.58	A16S
ATOM	26806	C3*	C	A1270	253.593	129.567	22.541	1.00	77.58	A16S
ATOM	26807	O3*	C	A1270	252.855	129.159	23.698	1.00	77.58	A16S
ATOM	26808	P	G	A1271	252.666	130.183	24.937	1.00	116.80	A16S
ATOM	26809	O1P	G	A1271	251.782	129.493	25.919	1.00	86.13	A16S
ATOM	26810	O2P	G	A1271	252.290	131.531	24.429	1.00	86.13	A16S
ATOM	26811	O5*	G	A1271	254.117	130.305	25.586	1.00	116.80	A16S
ATOM	26812	C5*	G	A1271	254.697	129.197	26.298	1.00	116.80	A16S
ATOM	26813	C4*	G	A1271	256.054	129.565	26.859	1.00	116.80	A16S
ATOM	26814	O4*	G	A1271	256.983	129.854	25.781	1.00	116.80	A16S
ATOM	26815	C1*	G	A1271	257.903	130.852	26.196	1.00	116.80	A16S
ATOM	26816	N9	G	A1271	257.703	132.044	25.381	1.00	86.13	A16S
ATOM	26817	C4	G	A1271	258.569	133.105	25.264	1.00	86.13	A16S
ATOM	26818	N3	G	A1271	259.760	133.233	25.894	1.00	86.13	A16S
ATOM	26819	C2	G	A1271	260.367	134.373	25.581	1.00	86.13	A16S
ATOM	26820	N2	G	A1271	261.561	134.676	26.134	1.00	86.13	A16S
ATOM	26821	N1	G	A1271	259.848	135.301	24.707	1.00	86.13	A16S
ATOM	26822	C6	G	A1271	258.628	135.187	24.048	1.00	86.13	A16S
ATOM	26823	O6	G	A1271	258.258	136.080	23.276	1.00	86.13	A16S
ATOM	26824	C5	G	A1271	257.961	133.979	24.387	1.00	86.13	A16S
ATOM	26825	N7	G	A1271	256.731	133.485	23.973	1.00	86.13	A16S
ATOM	26826	C8	G	A1271	256.621	132.338	24.586	1.00	86.13	A16S
ATOM	26827	C2*	G	A1271	257.603	131.169	27.654	1.00	116.80	A16S
ATOM	26828	O2*	G	A1271	258.417	130.350	28.471	1.00	116.80	A16S
ATOM	26829	C3*	G	A1271	256.128	130.802	27.739	1.00	116.80	A16S
ATOM	26830	O3*	G	A1271	255.729	130.562	29.075	1.00	116.80	A16S
ATOM	26831	P	G	A1272	255.280	131.801	29.999	1.00	105.54	A16S
ATOM	26832	O1P	G	A1272	254.934	131.181	31.300	1.00	71.41	A16S
ATOM	26833	O2P	G	A1272	254.270	132.632	29.282	1.00	71.41	A16S
ATOM	26834	O5*	G	A1272	256.600	132.688	30.158	1.00	105.54	A16S
ATOM	26835	C5*	G	A1272	257.636	132.328	31.099	1.00	105.54	A16S
ATOM	26836	C4*	G	A1272	258.647	133.448	31.232	1.00	105.54	A16S
ATOM	26837	O4*	G	A1272	259.301	133.663	29.955	1.00	105.54	A16S
ATOM	26838	C1*	G	A1272	259.583	135.042	29.787	1.00	105.54	A16S
ATOM	26839	N9	G	A1272	258.840	135.528	28.629	1.00	71.41	A16S
ATOM	26840	C4	G	A1272	259.093	136.681	27.922	1.00	71.41	A16S
ATOM	26841	N3	G	A1272	260.108	137.544	28.145	1.00	71.41	A16S
ATOM	26842	C2	G	A1272	260.069	138.579	27.319	1.00	71.41	A16S
ATOM	26843	N2	G	A1272	261.003	139.530	27.394	1.00	71.41	A16S
ATOM	26844	N1	G	A1272	259.109	138.758	26.356	1.00	71.41	A16S
ATOM	26845	C6	G	A1272	258.055	137.885	26.106	1.00	71.41	A16S
ATOM	26846	O6	G	A1272	257.237	138.146	25.211	1.00	71.41	A16S
ATOM	26847	C5	G	A1272	258.088	136.761	26.982	1.00	71.41	A16S
ATOM	26848	N7	G	A1272	257.238	135.665	27.073	1.00	71.41	A16S
ATOM	26849	C8	G	A1272	257.727	134.958	28.056	1.00	71.41	A16S
ATOM	26850	C2*	G	A1272	259.135	135.769	31.056	1.00	105.54	A16S
ATOM	26851	O2*	G	A1272	260.236	135.950	31.917	1.00	105.54	A16S
ATOM	26852	C3*	G	A1272	258.088	134.812	31.611	1.00	105.54	A16S
ATOM	26853	O3*	G	A1272	257.914	134.954	33.017	1.00	105.54	A16S
ATOM	26854	P	G	A1273	256.773	135.941	33.587	1.00	118.07	A16S
ATOM	26855	O1P	G	A1273	256.829	135.800	35.066	1.00	103.10	A16S
ATOM	26856	O2P	G	A1273	255.483	135.716	32.878	1.00	103.10	A16S
ATOM	26857	O5*	G	A1273	257.281	137.396	33.187	1.00	118.07	A16S
ATOM	26858	C5*	G	A1273	258.478	137.931	33.762	1.00	118.07	A16S
ATOM	26859	C4*	G	A1273	258.934	139.149	33.001	1.00	118.07	A16S
ATOM	26860	O4*	G	A1273	259.148	138.791	31.611	1.00	118.07	A16S
ATOM	26861	C1*	G	A1273	258.916	139.926	30.793	1.00	118.07	A16S
ATOM	26862	N9	G	A1273	257.876	139.620	29.817	1.00	103.10	A16S
ATOM	26863	C4	G	A1273	257.564	140.391	28.723	1.00	103.10	A16S
ATOM	26864	N3	G	A1273	258.201	141.523	28.345	1.00	103.10	A16S
ATOM	26865	C2	G	A1273	257.651	142.065	27.276	1.00	103.10	A16S
ATOM	26866	N2	G	A1273	258.164	143.188	26.767	1.00	103.10	A16S

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ATOM	26867	N1	G	A1273	256.558	141.545	26.627	1.00103.10	A16S
ATOM	26868	C6	G	A1273	255.886	140.382	26.996	1.00103.10	A16S
ATOM	26869	O6	G	A1273	254.905	140.002	26.343	1.00103.10	A16S
ATOM	26870	C5	G	A1273	256.473	139.782	28.145	1.00103.10	A16S
ATOM	26871	N7	G	A1273	256.125	138.630	28.841	1.00103.10	A16S
ATOM	26872	C8	G	A1273	256.990	138.568	29.818	1.00103.10	A16S
ATOM	26873	C2*	G	A1273	258.466	141.078	31.696	1.00118.07	A16S
ATOM	26874	O2*	G	A1273	259.542	141.965	31.930	1.00118.07	A16S
ATOM	26875	C3*	G	A1273	257.981	140.335	32.937	1.00118.07	A16S
ATOM	26876	O3*	G	A1273	258.041	141.163	34.097	1.00118.07	A16S
ATOM	26877	P	G	A1274	256.697	141.866	34.650	1.00108.51	A16S
ATOM	26878	O1P	G	A1274	257.075	142.689	35.830	1.00125.23	A16S
ATOM	26879	O2P	G	A1274	255.643	140.818	34.790	1.00125.23	A16S
ATOM	26880	O5*	G	A1274	256.268	142.879	33.495	1.00108.51	A16S
ATOM	26881	C5*	G	A1274	256.996	144.099	33.275	1.00108.51	A16S
ATOM	26882	C4*	G	A1274	256.560	144.734	31.980	1.00108.51	A16S
ATOM	26883	O4*	G	A1274	256.752	143.768	30.911	1.00108.51	A16S
ATOM	26884	C1*	G	A1274	255.690	143.868	29.973	1.00108.51	A16S
ATOM	26885	N9	G	A1274	254.936	142.613	29.985	1.00125.23	A16S
ATOM	26886	C4	G	A1274	253.907	142.269	29.133	1.00125.23	A16S
ATOM	26887	N3	G	A1274	253.433	143.019	28.116	1.00125.23	A16S
ATOM	26888	C2	G	A1274	252.432	142.426	27.489	1.00125.23	A16S
ATOM	26889	N2	G	A1274	251.848	143.028	26.452	1.00125.23	A16S
ATOM	26890	N1	G	A1274	251.930	141.198	27.834	1.00125.23	A16S
ATOM	26891	C6	G	A1274	252.396	140.407	28.877	1.00125.23	A16S
ATOM	26892	O6	G	A1274	251.862	139.317	29.108	1.00125.23	A16S
ATOM	26893	C5	G	A1274	253.480	141.027	29.558	1.00125.23	A16S
ATOM	26894	N7	G	A1274	254.234	140.588	30.639	1.00125.23	A16S
ATOM	26895	C8	G	A1274	255.085	141.555	30.855	1.00125.23	A16S
ATOM	26896	C2*	G	A1274	254.813	145.047	30.400	1.00108.51	A16S
ATOM	26897	O2*	G	A1274	255.210	146.227	29.726	1.00108.51	A16S
ATOM	26898	C3*	G	A1274	255.084	145.097	31.898	1.00108.51	A16S
ATOM	26899	O3*	G	A1274	254.782	146.368	32.467	1.00108.51	A16S
ATOM	26900	P	A	A1275	253.252	146.735	32.833	1.00108.74	A16S
ATOM	26901	O1P	A	A1275	253.227	147.266	34.220	1.00118.29	A16S
ATOM	26902	O2P	A	A1275	252.376	145.592	32.478	1.00118.29	A16S
ATOM	26903	O5*	A	A1275	252.909	147.930	31.842	1.00108.74	A16S
ATOM	26904	C5*	A	A1275	253.810	149.031	31.709	1.00108.74	A16S
ATOM	26905	C4*	A	A1275	253.554	149.768	30.425	1.00108.74	A16S
ATOM	26906	O4*	A	A1275	253.949	148.955	29.287	1.00108.74	A16S
ATOM	26907	C1*	A	A1275	253.084	149.220	28.188	1.00108.74	A16S
ATOM	26908	N9	A	A1275	252.339	147.997	27.861	1.00118.29	A16S
ATOM	26909	C4	A	A1275	251.589	147.789	26.725	1.00118.29	A16S
ATOM	26910	N3	A	A1275	251.426	148.628	25.685	1.00118.29	A16S
ATOM	26911	C2	A	A1275	250.610	148.098	24.776	1.00118.29	A16S
ATOM	26912	N1	A	A1275	249.984	146.916	24.788	1.00118.29	A16S
ATOM	26913	C6	A	A1275	250.165	146.100	25.850	1.00118.29	A16S
ATOM	26914	N6	A	A1275	249.529	144.932	25.874	1.00118.29	A16S
ATOM	26915	C5	A	A1275	251.013	146.540	26.877	1.00118.29	A16S
ATOM	26916	N7	A	A1275	251.410	145.957	28.072	1.00118.29	A16S
ATOM	26917	C8	A	A1275	252.199	146.853	28.614	1.00118.29	A16S
ATOM	26918	C2*	A	A1275	252.117	150.317	28.634	1.00108.74	A16S
ATOM	26919	O2*	A	A1275	252.613	151.588	28.252	1.00108.74	A16S
ATOM	26920	C3*	A	A1275	252.105	150.107	30.142	1.00108.74	A16S
ATOM	26921	O3*	A	A1275	251.633	151.224	30.870	1.00108.74	A16S
ATOM	26922	P	G	A1276	250.122	151.215	31.418	1.00125.19	A16S
ATOM	26923	O1P	G	A1276	249.940	152.419	32.270	1.00105.02	A16S
ATOM	26924	O2P	G	A1276	249.868	149.861	31.993	1.00105.02	A16S
ATOM	26925	O5*	G	A1276	249.249	151.410	30.094	1.00125.19	A16S
ATOM	26926	C5*	G	A1276	249.533	152.499	29.176	1.00125.19	A16S
ATOM	26927	C4*	G	A1276	248.905	152.248	27.814	1.00125.19	A16S
ATOM	26928	O4*	G	A1276	249.448	151.033	27.229	1.00125.19	A16S
ATOM	26929	C1*	G	A1276	248.438	150.355	26.496	1.00125.19	A16S
ATOM	26930	N9	G	A1276	248.194	149.065	27.141	1.00105.02	A16S
ATOM	26931	C4	G	A1276	247.510	147.992	26.611	1.00105.02	A16S
ATOM	26932	N3	G	A1276	246.947	147.935	25.386	1.00105.02	A16S
ATOM	26933	C2	G	A1276	246.370	146.770	25.165	1.00105.02	A16S
ATOM	26934	N2	G	A1276	245.772	146.537	23.991	1.00105.02	A16S
ATOM	26935	N1	G	A1276	246.340	145.744	26.078	1.00105.02	A16S
ATOM	26936	C6	G	A1276	246.913	145.782	27.343	1.00105.02	A16S
ATOM	26937	O6	G	A1276	246.835	144.801	28.087	1.00105.02	A16S
ATOM	26938	C5	G	A1276	247.538	147.020	27.591	1.00105.02	A16S
ATOM	26939	N7	G	A1276	248.223	147.467	28.712	1.00105.02	A16S
ATOM	26940	C8	G	A1276	248.593	148.680	28.403	1.00105.02	A16S
ATOM	26941	C2*	G	A1276	247.196	151.245	26.501	1.00125.19	A16S
ATOM	26942	O2*	G	A1276	247.203	152.049	25.337	1.00125.19	A16S
ATOM	26943	C3*	G	A1276	247.400	152.040	27.786	1.00125.19	A16S

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ATOM	26944	O3*	G	A1276	246.694	153.270	27.790	1.00125.19	A16S
ATOM	26945	P	C	A1277	245.369	153.413	28.687	1.00178.00	A16S
ATOM	26946	O1P	C	A1277	244.959	154.839	28.623	1.00103.88	A16S
ATOM	26947	O2P	C	A1277	245.602	152.765	30.012	1.00103.88	A16S
ATOM	26948	O5*	C	A1277	244.283	152.553	27.901	1.00178.00	A16S
ATOM	26949	C5*	C	A1277	243.852	152.945	26.586	1.00178.00	A16S
ATOM	26950	C4*	C	A1277	242.884	151.933	26.025	1.00178.00	A16S
ATOM	26951	O4*	C	A1277	243.546	150.646	25.922	1.00178.00	A16S
ATOM	26952	C1*	C	A1277	242.597	149.613	26.104	1.00178.00	A16S
ATOM	26953	N1	C	A1277	243.028	148.736	27.206	1.00103.88	A16S
ATOM	26954	C6	C	A1277	243.465	149.250	28.396	1.00103.88	A16S
ATOM	26955	C2	C	A1277	242.967	147.344	27.019	1.00103.88	A16S
ATOM	26956	O2	C	A1277	242.568	146.896	25.929	1.00103.88	A16S
ATOM	26957	N3	C	A1277	243.339	146.523	28.027	1.00103.88	A16S
ATOM	26958	C4	C	A1277	243.752	147.035	29.186	1.00103.88	A16S
ATOM	26959	N4	C	A1277	244.096	146.182	30.152	1.00103.88	A16S
ATOM	26960	C5	C	A1277	243.829	148.444	29.405	1.00103.88	A16S
ATOM	26961	C2*	C	A1277	241.236	150.261	26.355	1.00178.00	A16S
ATOM	26962	O2*	C	A1277	240.546	150.304	25.127	1.00178.00	A16S
ATOM	26963	C3*	C	A1277	241.628	151.652	26.841	1.00178.00	A16S
ATOM	26964	O3*	C	A1277	240.594	152.605	26.579	1.00178.00	A16S
ATOM	26965	P	U	A1278	239.612	153.080	27.771	1.00124.50	A16S
ATOM	26966	O1P	U	A1278	238.662	154.074	27.201	1.00196.68	A16S
ATOM	26967	O2P	U	A1278	240.450	153.456	28.936	1.00196.68	A16S
ATOM	26968	O5*	U	A1278	238.781	151.779	28.170	1.00124.50	A16S
ATOM	26969	C5*	U	A1278	238.220	150.910	27.161	1.00124.50	A16S
ATOM	26970	C4*	U	A1278	237.422	149.801	27.805	1.00124.50	A16S
ATOM	26971	O4*	U	A1278	238.290	149.162	28.769	1.00124.50	A16S
ATOM	26972	C1*	U	A1278	237.757	149.312	30.065	1.00124.50	A16S
ATOM	26973	N1	U	A1278	238.509	150.417	30.693	1.00196.68	A16S
ATOM	26974	C6	U	A1278	237.876	151.510	31.255	1.00196.68	A16S
ATOM	26975	C2	U	A1278	239.911	150.334	30.685	1.00196.68	A16S
ATOM	26976	O2	U	A1278	240.531	149.381	30.223	1.00196.68	A16S
ATOM	26977	N3	U	A1278	240.558	151.411	31.238	1.00196.68	A16S
ATOM	26978	C4	U	A1278	239.981	152.535	31.796	1.00196.68	A16S
ATOM	26979	O4	U	A1278	240.707	153.437	32.224	1.00196.68	A16S
ATOM	26980	C5	U	A1278	238.545	152.540	31.789	1.00196.68	A16S
ATOM	26981	C2*	U	A1278	236.247	149.506	29.873	1.00124.50	A16S
ATOM	26982	O2*	U	A1278	235.618	148.240	29.765	1.00124.50	A16S
ATOM	26983	C3*	U	A1278	236.207	150.304	28.571	1.00124.50	A16S
ATOM	26984	O3*	U	A1278	235.035	150.014	27.815	1.00124.50	A16S
ATOM	26985	P	A	A1279	234.378	151.143	26.874	1.00113.79	A16S
ATOM	26986	O1P	A	A1279	233.050	150.595	26.476	1.00 94.67	A16S
ATOM	26987	O2P	A	A1279	234.464	152.482	27.551	1.00 94.67	A16S
ATOM	26988	O5*	A	A1279	235.291	151.166	25.565	1.00113.79	A16S
ATOM	26989	C5*	A	A1279	235.995	152.361	25.166	1.00113.79	A16S
ATOM	26990	C4*	A	A1279	237.051	152.018	24.144	1.00113.79	A16S
ATOM	26991	O4*	A	A1279	237.801	150.901	24.658	1.00113.79	A16S
ATOM	26992	C1*	A	A1279	238.226	150.080	23.605	1.00113.79	A16S
ATOM	26993	N9	A	A1279	238.046	148.681	24.002	1.00 94.67	A16S
ATOM	26994	C4	A	A1279	236.904	147.918	24.010	1.00 94.67	A16S
ATOM	26995	N3	A	A1279	235.673	148.283	23.619	1.00 94.67	A16S
ATOM	26996	C2	A	A1279	234.813	147.278	23.780	1.00 94.67	A16S
ATOM	26997	N1	A	A1279	235.028	146.042	24.255	1.00 94.67	A16S
ATOM	26998	C6	A	A1279	236.280	145.708	24.642	1.00 94.67	A16S
ATOM	26999	N6	A	A1279	236.502	144.476	25.121	1.00 94.67	A16S
ATOM	27000	C5	A	A1279	237.281	146.684	24.520	1.00 94.67	A16S
ATOM	27001	N7	A	A1279	238.634	146.666	24.816	1.00 94.67	A16S
ATOM	27002	C8	A	A1279	239.041	147.865	24.488	1.00 94.67	A16S
ATOM	27003	C2*	A	A1279	237.640	150.615	22.300	1.00113.79	A16S
ATOM	27004	O2*	A	A1279	238.683	151.324	21.674	1.00113.79	A16S
ATOM	27005	C3*	A	A1279	236.537	151.556	22.791	1.00113.79	A16S
ATOM	27006	O3*	A	A1279	236.492	152.686	21.923	1.00113.79	A16S
ATOM	27007	P	A	A1280	235.203	153.653	21.899	1.00 74.83	A16S
ATOM	27008	O1P	A	A1280	234.871	154.043	23.300	1.00 89.60	A16S
ATOM	27009	O2P	A	A1280	234.154	153.023	21.047	1.00 89.60	A16S
ATOM	27010	O5*	A	A1280	235.764	154.948	21.147	1.00 74.83	A16S
ATOM	27011	C5*	A	A1280	235.174	155.442	19.922	1.00 74.83	A16S
ATOM	27012	C4*	A	A1280	235.838	154.811	18.710	1.00 74.83	A16S
ATOM	27013	O4*	A	A1280	235.236	155.383	17.522	1.00 74.83	A16S
ATOM	27014	C1*	A	A1280	236.233	155.921	16.684	1.00 74.83	A16S
ATOM	27015	N9	A	A1280	235.702	157.137	16.078	1.00 89.60	A16S
ATOM	27016	C4	A	A1280	235.436	157.327	14.744	1.00 89.60	A16S
ATOM	27017	N3	A	A1280	235.622	156.449	13.742	1.00 89.60	A16S
ATOM	27018	C2	A	A1280	235.235	156.977	12.579	1.00 89.60	A16S
ATOM	27019	N1	A	A1280	234.722	158.194	12.326	1.00 89.60	A16S
ATOM	27020	C6	A	A1280	234.550	159.052	13.359	1.00 89.60	A16S

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ATOM	27021	N6	A	A1280	234.037	160.264	13.111	1.00	89.60	A16S
ATOM	27022	C5	A	A1280	234.922	158.611	14.642	1.00	89.60	A16S
ATOM	27023	N7	A	A1280	234.875	159.220	15.886	1.00	89.60	A16S
ATOM	27024	C8	A	A1280	235.349	158.308	16.700	1.00	89.60	A16S
ATOM	27025	C2*	A	A1280	237.456	156.151	17.562	1.00	74.83	A16S
ATOM	27026	O2*	A	A1280	238.619	156.104	16.768	1.00	74.83	A16S
ATOM	27027	C3*	A	A1280	237.347	154.993	18.550	1.00	74.83	A16S
ATOM	27028	O3*	A	A1280	237.880	153.821	17.932	1.00	74.83	A16S
ATOM	27029	P	U	A1281	239.242	153.160	18.482	1.00145.62		A16S
ATOM	27030	O1P	U	A1281	239.999	152.571	17.346	1.00	82.14	A16S
ATOM	27031	O2P	U	A1281	238.932	152.324	19.658	1.00	82.14	A16S
ATOM	27032	O5*	U	A1281	240.097	154.397	18.974	1.00145.62		A16S
ATOM	27033	C5*	U	A1281	241.079	154.231	19.987	1.00145.62		A16S
ATOM	27034	C4*	U	A1281	241.991	155.417	20.006	1.00145.62		A16S
ATOM	27035	O4*	U	A1281	241.202	156.626	19.911	1.00145.62		A16S
ATOM	27036	C1*	U	A1281	241.635	157.566	20.872	1.00145.62		A16S
ATOM	27037	N1	U	A1281	240.460	157.883	21.713	1.00	82.14	A16S
ATOM	27038	C6	U	A1281	240.037	157.066	22.760	1.00	82.14	A16S
ATOM	27039	C2	U	A1281	239.725	159.023	21.362	1.00	82.14	A16S
ATOM	27040	O2	U	A1281	240.114	159.832	20.535	1.00	82.14	A16S
ATOM	27041	N3	U	A1281	238.532	159.182	22.033	1.00	82.14	A16S
ATOM	27042	C4	U	A1281	238.017	158.369	23.032	1.00	82.14	A16S
ATOM	27043	O4	U	A1281	236.868	158.576	23.442	1.00	82.14	A16S
ATOM	27044	C5	U	A1281	238.874	157.267	23.412	1.00	82.14	A16S
ATOM	27045	C2*	U	A1281	242.939	157.032	21.493	1.00145.62		A16S
ATOM	27046	O2*	U	A1281	244.030	157.588	20.786	1.00145.62		A16S
ATOM	27047	C3*	U	A1281	242.800	155.524	21.280	1.00145.62		A16S
ATOM	27048	O3*	U	A1281	243.993	154.706	21.212	1.00145.62		A16S
ATOM	27049	P	C	A1282	245.010	154.798	19.941	1.00	83.61	A16S
ATOM	27050	O1P	C	A1282	245.956	155.926	20.148	1.00120.05		A16S
ATOM	27051	O2P	C	A1282	244.272	154.703	18.660	1.00120.05		A16S
ATOM	27052	O5*	C	A1282	245.867	153.462	20.078	1.00	83.61	A16S
ATOM	27053	C5*	C	A1282	246.906	153.370	21.062	1.00	83.61	A16S
ATOM	27054	C4*	C	A1282	246.831	152.059	21.810	1.00	83.61	A16S
ATOM	27055	O4*	C	A1282	245.619	151.993	22.608	1.00	83.61	A16S
ATOM	27056	C1*	C	A1282	245.204	150.637	22.729	1.00	83.61	A16S
ATOM	27057	N1	C	A1282	243.851	150.482	22.145	1.00120.05		A16S
ATOM	27058	C6	C	A1282	243.248	151.504	21.460	1.00120.05		A16S
ATOM	27059	C2	C	A1282	243.195	149.236	22.273	1.00120.05		A16S
ATOM	27060	O2	C	A1282	243.728	148.338	22.947	1.00120.05		A16S
ATOM	27061	N3	C	A1282	241.999	149.051	21.664	1.00120.05		A16S
ATOM	27062	C4	C	A1282	241.443	150.046	20.967	1.00120.05		A16S
ATOM	27063	N4	C	A1282	240.283	149.805	20.352	1.00120.05		A16S
ATOM	27064	C5	C	A1282	242.059	151.330	20.861	1.00120.05		A16S
ATOM	27065	C2*	C	A1282	246.221	149.777	21.972	1.00	83.61	A16S
ATOM	27066	O2*	C	A1282	247.171	149.254	22.882	1.00	83.61	A16S
ATOM	27067	C3*	C	A1282	246.802	150.784	20.981	1.00	83.61	A16S
ATOM	27068	O3*	C	A1282	248.089	150.409	20.483	1.00	83.61	A16S
ATOM	27069	P	G	A1283	248.220	149.769	19.007	1.00105.11		A16S
ATOM	27070	O1P	G	A1283	249.669	149.633	18.698	1.00	68.22	A16S
ATOM	27071	O2P	G	A1283	247.351	150.545	18.083	1.00	68.22	A16S
ATOM	27072	O5*	G	A1283	247.615	148.308	19.200	1.00105.11		A16S
ATOM	27073	C5*	G	A1283	248.145	147.443	20.218	1.00105.11		A16S
ATOM	27074	C4*	G	A1283	247.341	146.170	20.321	1.00105.11		A16S
ATOM	27075	O4*	G	A1283	246.042	146.425	20.922	1.00105.11		A16S
ATOM	27076	C1*	G	A1283	245.095	145.484	20.429	1.00105.11		A16S
ATOM	27077	N9	G	A1283	244.030	146.192	19.714	1.00	68.22	A16S
ATOM	27078	C4	G	A1283	242.764	145.703	19.435	1.00	68.22	A16S
ATOM	27079	N3	G	A1283	242.273	144.502	19.815	1.00	68.22	A16S
ATOM	27080	C2	G	A1283	241.034	144.317	19.385	1.00	68.22	A16S
ATOM	27081	N2	G	A1283	240.389	143.182	19.698	1.00	68.22	A16S
ATOM	27082	N1	G	A1283	240.337	145.230	18.624	1.00	68.22	A16S
ATOM	27083	C6	G	A1283	240.827	146.465	18.210	1.00	68.22	A16S
ATOM	27084	O6	G	A1283	240.128	147.203	17.508	1.00	68.22	A16S
ATOM	27085	C5	G	A1283	242.146	146.689	18.684	1.00	68.22	A16S
ATOM	27086	N7	G	A1283	242.987	147.783	18.518	1.00	68.22	A16S
ATOM	27087	C8	G	A1283	244.087	147.448	19.146	1.00	68.22	A16S
ATOM	27088	C2*	G	A1283	245.847	144.555	19.477	1.00105.11		A16S
ATOM	27089	O2*	G	A1283	246.301	143.417	20.186	1.00105.11		A16S
ATOM	27090	C3*	G	A1283	247.000	145.444	19.031	1.00105.11		A16S
ATOM	27091	O3*	G	A1283	248.077	144.702	18.481	1.00105.11		A16S
ATOM	27092	P	C	A1284	248.070	144.347	16.907	1.00	88.74	A16S
ATOM	27093	O1P	C	A1284	249.428	143.823	16.585	1.00	67.90	A16S
ATOM	27094	O2P	C	A1284	247.520	145.509	16.128	1.00	67.90	A16S
ATOM	27095	O5*	C	A1284	247.049	143.123	16.816	1.00	88.74	A16S
ATOM	27096	C5*	C	A1284	247.206	141.969	17.679	1.00	88.74	A16S
ATOM	27097	C4*	C	A1284	246.051	141.011	17.499	1.00	88.74	A16S

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ATOM	27098	O4*	C	A1284	244.826	141.620	17.978	1.00	88.74	A16S
ATOM	27099	C1*	C	A1284	243.742	141.227	17.155	1.00	88.74	A16S
ATOM	27100	N1	C	A1284	243.154	142.432	16.543	1.00	67.90	A16S
ATOM	27101	C6	C	A1284	243.899	143.566	16.376	1.00	67.90	A16S
ATOM	27102	C2	C	A1284	241.809	142.403	16.130	1.00	67.90	A16S
ATOM	27103	O2	C	A1284	241.150	141.349	16.269	1.00	67.90	A16S
ATOM	27104	N3	C	A1284	241.263	143.523	15.583	1.00	67.90	A16S
ATOM	27105	C4	C	A1284	242.005	144.626	15.434	1.00	67.90	A16S
ATOM	27106	N4	C	A1284	241.432	145.707	14.898	1.00	67.90	A16S
ATOM	27107	C5	C	A1284	243.372	144.672	15.830	1.00	67.90	A16S
ATOM	27108	C2*	C	A1284	244.277	140.243	16.119	1.00	88.74	A16S
ATOM	27109	O2*	C	A1284	244.060	138.936	16.604	1.00	88.74	A16S
ATOM	27110	C3*	C	A1284	245.750	140.624	16.063	1.00	88.74	A16S
ATOM	27111	O3*	C	A1284	246.572	139.551	15.638	1.00	88.74	A16S
ATOM	27112	P	A	A1285	247.178	139.561	14.151	1.00	86.01	A16S
ATOM	27113	O1P	A	A1285	246.044	139.705	13.205	1.00	77.05	A16S
ATOM	27114	O2P	A	A1285	248.092	138.390	14.043	1.00	77.05	A16S
ATOM	27115	O5*	A	A1285	248.020	140.912	14.077	1.00	86.01	A16S
ATOM	27116	C5*	A	A1285	248.754	141.269	12.887	1.00	86.01	A16S
ATOM	27117	C4*	A	A1285	248.146	142.496	12.256	1.00	86.01	A16S
ATOM	27118	O4*	A	A1285	246.761	142.207	12.003	1.00	86.01	A16S
ATOM	27119	C1*	A	A1285	246.023	143.404	12.037	1.00	86.01	A16S
ATOM	27120	N9	A	A1285	244.656	143.093	12.456	1.00	77.05	A16S
ATOM	27121	C4	A	A1285	243.527	143.786	12.086	1.00	77.05	A16S
ATOM	27122	N3	A	A1285	243.466	144.913	11.358	1.00	77.05	A16S
ATOM	27123	C2	A	A1285	242.204	145.267	11.149	1.00	77.05	A16S
ATOM	27124	N1	A	A1285	241.080	144.668	11.552	1.00	77.05	A16S
ATOM	27125	C6	A	A1285	241.175	143.537	12.282	1.00	77.05	A16S
ATOM	27126	N6	A	A1285	240.050	142.933	12.673	1.00	77.05	A16S
ATOM	27127	C5	A	A1285	242.460	143.059	12.580	1.00	77.05	A16S
ATOM	27128	N7	A	A1285	242.905	141.955	13.295	1.00	77.05	A16S
ATOM	27129	C8	A	A1285	244.212	142.030	13.208	1.00	77.05	A16S
ATOM	27130	C2*	A	A1285	246.820	144.477	12.786	1.00	86.01	A16S
ATOM	27131	O2*	A	A1285	246.904	145.645	11.997	1.00	86.01	A16S
ATOM	27132	C3*	A	A1285	248.134	143.747	13.124	1.00	86.01	A16S
ATOM	27133	O3*	A	A1285	249.390	144.472	13.039	1.00	86.01	A16S
ATOM	27134	P	A	A1286	249.874	145.186	11.656	1.00	108.27	A16S
ATOM	27135	O1P	A	A1286	251.293	145.539	11.908	1.00	117.47	A16S
ATOM	27136	O2P	A	A1286	248.941	146.253	11.211	1.00	117.47	A16S
ATOM	27137	O5*	A	A1286	249.887	144.025	10.559	1.00	108.27	A16S
ATOM	27138	C5*	A	A1286	251.137	143.494	10.069	1.00	108.27	A16S
ATOM	27139	C4*	A	A1286	250.930	142.637	8.833	1.00	108.27	A16S
ATOM	27140	O4*	A	A1286	250.224	141.413	9.180	1.00	108.27	A16S
ATOM	27141	C1*	A	A1286	249.443	140.980	8.070	1.00	108.27	A16S
ATOM	27142	N9	A	A1286	248.023	141.014	8.444	1.00	117.47	A16S
ATOM	27143	C4	A	A1286	247.279	139.990	8.981	1.00	117.47	A16S
ATOM	27144	N3	A	A1286	247.695	138.747	9.288	1.00	117.47	A16S
ATOM	27145	C2	A	A1286	246.694	138.030	9.795	1.00	117.47	A16S
ATOM	27146	N1	A	A1286	245.419	138.389	10.015	1.00	117.47	A16S
ATOM	27147	C6	A	A1286	245.035	139.648	9.694	1.00	117.47	A16S
ATOM	27148	N6	A	A1286	243.768	140.014	9.915	1.00	117.47	A16S
ATOM	27149	C5	A	A1286	246.000	140.503	9.146	1.00	117.47	A16S
ATOM	27150	N7	A	A1286	245.935	141.822	8.720	1.00	117.47	A16S
ATOM	27151	C8	A	A1286	247.152	142.081	8.318	1.00	117.47	A16S
ATOM	27152	C2*	A	A1286	249.716	141.948	6.921	1.00	108.27	A16S
ATOM	27153	O2*	A	A1286	250.735	141.441	6.080	1.00	108.27	A16S
ATOM	27154	C3*	A	A1286	250.118	143.207	7.679	1.00	108.27	A16S
ATOM	27155	O3*	A	A1286	250.801	144.114	6.831	1.00	108.27	A16S
ATOM	27156	P	A	A1287	249.943	145.077	5.862	1.00	117.02	A16S
ATOM	27157	O1P	A	A1287	250.871	145.624	4.824	1.00	67.78	A16S
ATOM	27158	O2P	A	A1287	249.138	146.017	6.713	1.00	67.78	A16S
ATOM	27159	O5*	A	A1287	248.938	144.080	5.121	1.00	117.02	A16S
ATOM	27160	C5*	A	A1287	247.529	144.384	5.002	1.00	117.02	A16S
ATOM	27161	C4*	A	A1287	246.715	143.109	4.959	1.00	117.02	A16S
ATOM	27162	O4*	A	A1287	245.312	143.442	4.980	1.00	117.02	A16S
ATOM	27163	C1*	A	A1287	244.597	142.556	4.146	1.00	117.02	A16S
ATOM	27164	N9	A	A1287	243.883	143.357	3.152	1.00	67.78	A16S
ATOM	27165	C4	A	A1287	242.797	142.968	2.402	1.00	67.78	A16S
ATOM	27166	N3	A	A1287	242.214	141.759	2.376	1.00	67.78	A16S
ATOM	27167	C2	A	A1287	241.171	141.761	1.553	1.00	67.78	A16S
ATOM	27168	N1	A	A1287	240.676	142.758	0.807	1.00	67.78	A16S
ATOM	27169	C6	A	A1287	241.284	143.958	0.847	1.00	67.78	A16S
ATOM	27170	N6	A	A1287	240.793	144.942	0.092	1.00	67.78	A16S
ATOM	27171	C5	A	A1287	242.410	144.089	1.686	1.00	67.78	A16S
ATOM	27172	N7	A	A1287	243.261	145.155	1.949	1.00	67.78	A16S
ATOM	27173	C8	A	A1287	244.121	144.666	2.811	1.00	67.78	A16S
ATOM	27174	C2*	A	A1287	245.578	141.525	3.593	1.00	117.02	A16S

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ATOM	27175	O2*	A	A1287	245.541	140.380	4.416	1.00117.02	A16S
ATOM	27176	C3*	A	A1287	246.905	142.257	3.718	1.00117.02	A16S
ATOM	27177	O3*	A	A1287	247.947	141.329	3.955	1.00117.02	A16S
ATOM	27178	P	A	A1288	249.091	141.113	2.855	1.00 78.93	A16S
ATOM	27179	O1P	A	A1288	250.112	140.254	3.534	1.00 65.71	A16S
ATOM	27180	O2P	A	A1288	249.479	142.433	2.281	1.00 65.71	A16S
ATOM	27181	O5*	A	A1288	248.384	140.282	1.695	1.00 78.93	A16S
ATOM	27182	C5*	A	A1288	248.323	138.845	1.746	1.00 78.93	A16S
ATOM	27183	C4*	A	A1288	247.355	138.331	0.713	1.00 78.93	A16S
ATOM	27184	O4*	A	A1288	246.044	138.892	0.996	1.00 78.93	A16S
ATOM	27185	C1*	A	A1288	245.363	139.137	-0.218	1.00 78.93	A16S
ATOM	27186	N9	A	A1288	245.047	140.564	-0.297	1.00 65.71	A16S
ATOM	27187	C4	A	A1288	244.015	141.134	-1.002	1.00 65.71	A16S
ATOM	27188	N3	A	A1288	243.085	140.505	-1.730	1.00 65.71	A16S
ATOM	27189	C2	A	A1288	242.267	141.384	-2.306	1.00 65.71	A16S
ATOM	27190	N1	A	A1288	242.268	142.721	-2.238	1.00 65.71	A16S
ATOM	27191	C6	A	A1288	243.208	143.324	-1.494	1.00 65.71	A16S
ATOM	27192	N6	A	A1288	243.193	144.656	-1.426	1.00 65.71	A16S
ATOM	27193	C5	A	A1288	244.145	142.499	-0.833	1.00 65.71	A16S
ATOM	27194	N7	A	A1288	245.226	142.785	-0.018	1.00 65.71	A16S
ATOM	27195	C8	A	A1288	245.720	141.606	0.278	1.00 65.71	A16S
ATOM	27196	C2*	A	A1288	246.266	138.662	-1.363	1.00 78.93	A16S
ATOM	27197	O2*	A	A1288	245.929	137.334	-1.715	1.00 78.93	A16S
ATOM	27198	C3*	A	A1288	247.648	138.728	-0.728	1.00 78.93	A16S
ATOM	27199	O3*	A	A1288	248.578	137.840	-1.367	1.00 78.93	A16S
ATOM	27200	P	A	A1289	249.587	138.403	-2.505	1.00 72.31	A16S
ATOM	27201	O1P	A	A1289	250.562	137.317	-2.801	1.00 76.44	A16S
ATOM	27202	O2P	A	A1289	250.084	139.754	-2.110	1.00 76.44	A16S
ATOM	27203	O5*	A	A1289	248.681	138.610	-3.802	1.00 72.31	A16S
ATOM	27204	C5*	A	A1289	248.179	137.484	-4.540	1.00 72.31	A16S
ATOM	27205	C4*	A	A1289	246.963	137.878	-5.346	1.00 72.31	A16S
ATOM	27206	O4*	A	A1289	245.954	138.447	-4.472	1.00 72.31	A16S
ATOM	27207	C1*	A	A1289	245.180	139.388	-5.193	1.00 72.31	A16S
ATOM	27208	N9	A	A1289	245.267	140.688	-4.541	1.00 76.44	A16S
ATOM	27209	C4	A	A1289	244.499	141.770	-4.890	1.00 76.44	A16S
ATOM	27210	N3	A	A1289	243.520	141.809	-5.810	1.00 76.44	A16S
ATOM	27211	C2	A	A1289	243.018	143.034	-5.914	1.00 76.44	A16S
ATOM	27212	N1	A	A1289	243.362	144.142	-5.261	1.00 76.44	A16S
ATOM	27213	C6	A	A1289	244.353	144.072	-4.344	1.00 76.44	A16S
ATOM	27214	N6	A	A1289	244.708	145.186	-3.704	1.00 76.44	A16S
ATOM	27215	C5	A	A1289	244.959	142.820	-4.128	1.00 76.44	A16S
ATOM	27216	N7	A	A1289	245.969	142.400	-3.272	1.00 76.44	A16S
ATOM	27217	C8	A	A1289	246.106	141.125	-3.550	1.00 76.44	A16S
ATOM	27218	C2*	A	A1289	245.761	139.495	-6.603	1.00 72.31	A16S
ATOM	27219	O2*	A	A1289	244.987	138.753	-7.526	1.00 72.31	A16S
ATOM	27220	C3*	A	A1289	247.167	138.949	-6.402	1.00 72.31	A16S
ATOM	27221	O3*	A	A1289	247.681	138.428	-7.615	1.00 72.31	A16S
ATOM	27222	P	G	A1290	248.929	139.151	-8.312	1.00 84.88	A16S
ATOM	27223	O1P	G	A1290	248.888	138.842	-9.765	1.00 83.61	A16S
ATOM	27224	O2P	G	A1290	250.138	138.796	-7.508	1.00 83.61	A16S
ATOM	27225	O5*	G	A1290	248.627	140.706	-8.140	1.00 84.88	A16S
ATOM	27226	C5*	G	A1290	247.490	141.324	-8.778	1.00 84.88	A16S
ATOM	27227	C4*	G	A1290	247.493	142.815	-8.512	1.00 84.88	A16S
ATOM	27228	O4*	G	A1290	247.365	143.038	-7.084	1.00 84.88	A16S
ATOM	27229	C1*	G	A1290	248.192	144.120	-6.689	1.00 84.88	A16S
ATOM	27230	N9	G	A1290	249.171	143.614	-5.726	1.00 83.61	A16S
ATOM	27231	C4	G	A1290	250.151	144.343	-5.100	1.00 83.61	A16S
ATOM	27232	N3	G	A1290	250.389	145.658	-5.275	1.00 83.61	A16S
ATOM	27233	C2	G	A1290	251.408	146.075	-4.546	1.00 83.61	A16S
ATOM	27234	N2	G	A1290	251.787	147.354	-4.617	1.00 83.61	A16S
ATOM	27235	N1	G	A1290	252.133	145.267	-3.699	1.00 83.61	A16S
ATOM	27236	C6	G	A1290	251.903	143.909	-3.496	1.00 83.61	A16S
ATOM	27237	O6	G	A1290	252.613	143.271	-2.702	1.00 83.61	A16S
ATOM	27238	C5	G	A1290	250.814	143.444	-4.284	1.00 83.61	A16S
ATOM	27239	N7	G	A1290	250.261	142.175	-4.395	1.00 83.61	A16S
ATOM	27240	C8	G	A1290	249.294	142.322	-5.259	1.00 83.61	A16S
ATOM	27241	C2*	G	A1290	248.810	144.723	-7.953	1.00 84.88	A16S
ATOM	27242	O2*	G	A1290	248.019	145.806	-8.408	1.00 84.88	A16S
ATOM	27243	C3*	G	A1290	248.773	143.538	-8.909	1.00 84.88	A16S
ATOM	27244	O3*	G	A1290	248.732	143.947	-10.270	1.00 84.88	A16S
ATOM	27245	P	G	A1291	250.045	143.799	-11.189	1.00 87.76	A16S
ATOM	27246	O1P	G	A1291	249.610	144.197	-12.559	1.00 85.29	A16S
ATOM	27247	O2P	G	A1291	250.659	142.456	-10.973	1.00 85.29	A16S
ATOM	27248	O5*	G	A1291	251.049	144.898	-10.609	1.00 87.76	A16S
ATOM	27249	C5*	G	A1291	250.773	146.308	-10.754	1.00 87.76	A16S
ATOM	27250	C4*	G	A1291	251.839	147.132	-10.070	1.00 87.76	A16S
ATOM	27251	O4*	G	A1291	251.779	146.931	-8.637	1.00 87.76	A16S

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ATOM	27252	C1*	G	A1291	253.078	147.033	-8.090	1.00	87.76	A16S
ATOM	27253	N9	G	A1291	253.357	145.834	-7.307	1.00	85.29	A16S
ATOM	27254	C4	G	A1291	254.366	145.674	-6.382	1.00	85.29	A16S
ATOM	27255	N3	G	A1291	255.287	146.601	-6.042	1.00	85.29	A16S
ATOM	27256	C2	G	A1291	256.134	146.144	-5.126	1.00	85.29	A16S
ATOM	27257	N2	G	A1291	257.113	146.939	-4.664	1.00	85.29	A16S
ATOM	27258	N1	G	A1291	256.081	144.876	-4.592	1.00	85.29	A16S
ATOM	27259	C6	G	A1291	255.140	143.909	-4.927	1.00	85.29	A16S
ATOM	27260	O6	G	A1291	255.181	142.800	-4.388	1.00	85.29	A16S
ATOM	27261	C5	G	A1291	254.225	144.386	-5.905	1.00	85.29	A16S
ATOM	27262	N7	G	A1291	253.154	143.751	-6.516	1.00	85.29	A16S
ATOM	27263	C8	G	A1291	252.671	144.645	-7.338	1.00	85.29	A16S
ATOM	27264	C2*	G	A1291	254.065	147.284	-9.232	1.00	87.76	A16S
ATOM	27265	O2*	G	A1291	254.359	148.663	-9.253	1.00	87.76	A16S
ATOM	27266	C3*	G	A1291	253.276	146.819	-10.456	1.00	87.76	A16S
ATOM	27267	O3*	G	A1291	253.631	147.546	-11.639	1.00	87.76	A16S
ATOM	27268	P	U	A1292	254.780	146.986	-12.622	1.00	91.29	A16S
ATOM	27269	O1P	U	A1292	254.884	147.950	-13.750	1.00	93.03	A16S
ATOM	27270	O2P	U	A1292	254.512	145.560	-12.910	1.00	93.03	A16S
ATOM	27271	O5*	U	A1292	256.115	147.058	-11.750	1.00	91.29	A16S
ATOM	27272	C5*	U	A1292	256.849	148.291	-11.625	1.00	91.29	A16S
ATOM	27273	C4*	U	A1292	258.070	148.102	-10.750	1.00	91.29	A16S
ATOM	27274	O4*	U	A1292	257.676	147.797	-9.384	1.00	91.29	A16S
ATOM	27275	C1*	U	A1292	258.654	146.966	-8.778	1.00	91.29	A16S
ATOM	27276	N1	U	A1292	258.014	145.726	-8.311	1.00	93.03	A16S
ATOM	27277	C6	U	A1292	256.881	145.230	-8.917	1.00	93.03	A16S
ATOM	27278	C2	U	A1292	258.604	145.053	-7.237	1.00	93.03	A16S
ATOM	27279	O2	U	A1292	259.604	145.452	-6.663	1.00	93.03	A16S
ATOM	27280	N3	U	A1292	257.978	143.891	-6.865	1.00	93.03	A16S
ATOM	27281	C4	U	A1292	256.854	143.338	-7.437	1.00	93.03	A16S
ATOM	27282	O4	U	A1292	256.401	142.289	-6.976	1.00	93.03	A16S
ATOM	27283	C5	U	A1292	256.300	144.089	-8.530	1.00	93.03	A16S
ATOM	27284	C2*	U	A1292	259.740	146.687	-9.817	1.00	91.29	A16S
ATOM	27285	O2*	U	A1292	260.843	147.541	-9.593	1.00	91.29	A16S
ATOM	27286	C3*	U	A1292	259.003	146.966	-11.124	1.00	91.29	A16S
ATOM	27287	O3*	U	A1292	259.887	147.304	-12.184	1.00	91.29	A16S
ATOM	27288	P	G	A1293	260.549	146.128	-13.065	1.00	89.84	A16S
ATOM	27289	O1P	G	A1293	261.441	146.792	-14.052	1.00	96.39	A16S
ATOM	27290	O2P	G	A1293	259.459	145.230	-13.552	1.00	96.39	A16S
ATOM	27291	O5*	G	A1293	261.453	145.333	-12.015	1.00	89.84	A16S
ATOM	27292	C5*	G	A1293	262.567	145.992	-11.403	1.00	89.84	A16S
ATOM	27293	C4*	G	A1293	263.293	145.078	-10.451	1.00	89.84	A16S
ATOM	27294	O4*	G	A1293	262.507	144.850	-9.256	1.00	89.84	A16S
ATOM	27295	C1*	G	A1293	262.844	143.585	-8.704	1.00	89.84	A16S
ATOM	27296	N9	G	A1293	261.647	142.750	-8.662	1.00	96.39	A16S
ATOM	27297	C4	G	A1293	261.445	141.655	-7.854	1.00	96.39	A16S
ATOM	27298	N3	G	A1293	262.305	141.181	-6.926	1.00	96.39	A16S
ATOM	27299	C2	G	A1293	261.838	140.098	-6.326	1.00	96.39	A16S
ATOM	27300	N2	G	A1293	262.559	139.499	-5.371	1.00	96.39	A16S
ATOM	27301	N1	G	A1293	260.627	139.527	-6.618	1.00	96.39	A16S
ATOM	27302	C6	G	A1293	259.730	139.998	-7.573	1.00	96.39	A16S
ATOM	27303	O6	G	A1293	258.667	139.402	-7.769	1.00	96.39	A16S
ATOM	27304	C5	G	A1293	260.213	141.159	-8.215	1.00	96.39	A16S
ATOM	27305	N7	G	A1293	259.640	141.936	-9.212	1.00	96.39	A16S
ATOM	27306	C8	G	A1293	260.520	142.871	-9.440	1.00	96.39	A16S
ATOM	27307	C2*	G	A1293	263.900	142.953	-9.615	1.00	89.84	A16S
ATOM	27308	O2*	G	A1293	265.189	143.193	-9.091	1.00	89.84	A16S
ATOM	27309	C3*	G	A1293	263.655	143.685	-10.930	1.00	89.84	A16S
ATOM	27310	O3*	G	A1293	264.801	143.658	-11.763	1.00	89.84	A16S
ATOM	27311	P	G	A1294	264.987	142.447	-12.804	1.00	89.46	A16S
ATOM	27312	O1P	G	A1294	266.234	142.730	-13.574	1.00	85.03	A16S
ATOM	27313	O2P	G	A1294	263.702	142.256	-13.537	1.00	85.03	A16S
ATOM	27314	O5*	G	A1294	265.244	141.184	-11.860	1.00	89.46	A16S
ATOM	27315	C5*	G	A1294	266.394	141.160	-11.002	1.00	89.46	A16S
ATOM	27316	C4*	G	A1294	266.450	139.892	-10.182	1.00	89.46	A16S
ATOM	27317	O4*	G	A1294	265.458	139.908	-9.122	1.00	89.46	A16S
ATOM	27318	C1*	G	A1294	265.101	138.570	-8.785	1.00	89.46	A16S
ATOM	27319	N9	G	A1294	263.667	138.370	-9.005	1.00	85.03	A16S
ATOM	27320	C4	G	A1294	262.891	137.390	-8.429	1.00	85.03	A16S
ATOM	27321	N3	G	A1294	263.307	136.484	-7.519	1.00	85.03	A16S
ATOM	27322	C2	G	A1294	262.343	135.646	-7.178	1.00	85.03	A16S
ATOM	27323	N2	G	A1294	262.581	134.684	-6.267	1.00	85.03	A16S
ATOM	27324	N1	G	A1294	261.074	135.689	-7.700	1.00	85.03	A16S
ATOM	27325	C6	G	A1294	260.625	136.612	-8.643	1.00	85.03	A16S
ATOM	27326	O6	G	A1294	259.460	136.552	-9.065	1.00	85.03	A16S
ATOM	27327	C5	G	A1294	261.645	137.526	-9.003	1.00	85.03	A16S
ATOM	27328	N7	G	A1294	261.622	138.594	-9.893	1.00	85.03	A16S

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ATOM	27329	C8	G	A1294	262.837	139.070	-9.856	1.00	85.03	A16S
ATOM	27330	C2*	G	A1294	265.902	137.641	-9.698	1.00	89.46	A16S
ATOM	27331	O2*	G	A1294	267.045	137.161	-9.012	1.00	89.46	A16S
ATOM	27332	C3*	G	A1294	266.220	138.563	-10.875	1.00	89.46	A16S
ATOM	27333	O3*	G	A1294	267.331	138.108	-11.628	1.00	89.46	A16S
ATOM	27334	P	G	A1295	267.108	136.984	-12.758	1.00	80.96	A16S
ATOM	27335	O1P	G	A1295	268.430	136.748	-13.396	1.00	75.95	A16S
ATOM	27336	O2P	G	A1295	265.945	137.397	-13.608	1.00	75.95	A16S
ATOM	27337	O5*	G	A1295	266.740	135.674	-11.915	1.00	80.96	A16S
ATOM	27338	C5*	G	A1295	267.679	135.151	-10.952	1.00	80.96	A16S
ATOM	27339	C4*	G	A1295	267.087	134.000	-10.168	1.00	80.96	A16S
ATOM	27340	O4*	G	A1295	265.960	134.450	-9.370	1.00	80.96	A16S
ATOM	27341	C1*	G	A1295	265.015	133.392	-9.231	1.00	80.96	A16S
ATOM	27342	N9	G	A1295	263.755	133.787	-9.868	1.00	75.95	A16S
ATOM	27343	C4	G	A1295	262.561	133.096	-9.811	1.00	75.95	A16S
ATOM	27344	N3	G	A1295	262.352	131.928	-9.170	1.00	75.95	A16S
ATOM	27345	C2	G	A1295	261.106	131.512	-9.303	1.00	75.95	A16S
ATOM	27346	N2	G	A1295	260.732	130.350	-8.742	1.00	75.95	A16S
ATOM	27347	N1	G	A1295	260.138	132.198	-9.995	1.00	75.95	A16S
ATOM	27348	C6	G	A1295	260.330	133.398	-10.660	1.00	75.95	A16S
ATOM	27349	O6	G	A1295	259.391	133.926	-11.248	1.00	75.95	A16S
ATOM	27350	C5	G	A1295	261.665	133.849	-10.543	1.00	75.95	A16S
ATOM	27351	N7	G	A1295	262.281	134.979	-11.065	1.00	75.95	A16S
ATOM	27352	C8	G	A1295	263.515	134.904	-10.641	1.00	75.95	A16S
ATOM	27353	C2*	G	A1295	265.611	132.171	-9.922	1.00	80.96	A16S
ATOM	27354	O2*	G	A1295	266.325	131.399	-8.978	1.00	80.96	A16S
ATOM	27355	C3*	G	A1295	266.522	132.829	-10.948	1.00	80.96	A16S
ATOM	27356	O3*	G	A1295	267.496	131.937	-11.447	1.00	80.96	A16S
ATOM	27357	P	C	A1296	267.232	131.219	-12.860	1.00	85.76	A16S
ATOM	27358	O1P	C	A1296	268.416	130.378	-13.181	1.00	54.21	A16S
ATOM	27359	O2P	C	A1296	266.769	132.259	-13.834	1.00	54.21	A16S
ATOM	27360	O5*	C	A1296	265.999	130.252	-12.566	1.00	85.76	A16S
ATOM	27361	C5*	C	A1296	266.081	129.211	-11.565	1.00	85.76	A16S
ATOM	27362	C4*	C	A1296	264.859	128.319	-11.636	1.00	85.76	A16S
ATOM	27363	O4*	C	A1296	263.685	129.041	-11.193	1.00	85.76	A16S
ATOM	27364	C1*	C	A1296	262.570	128.668	-11.981	1.00	85.76	A16S
ATOM	27365	N1	C	A1296	262.019	129.893	-12.596	1.00	54.21	A16S
ATOM	27366	C6	C	A1296	262.848	130.880	-13.043	1.00	54.21	A16S
ATOM	27367	C2	C	A1296	260.624	130.049	-12.694	1.00	54.21	A16S
ATOM	27368	O2	C	A1296	259.880	129.131	-12.308	1.00	54.21	A16S
ATOM	27369	N3	C	A1296	260.121	131.195	-13.206	1.00	54.21	A16S
ATOM	27370	C4	C	A1296	260.943	132.154	-13.618	1.00	54.21	A16S
ATOM	27371	N4	C	A1296	260.409	133.266	-14.103	1.00	54.21	A16S
ATOM	27372	C5	C	A1296	262.356	132.017	-13.551	1.00	54.21	A16S
ATOM	27373	C2*	C	A1296	263.022	127.578	-12.959	1.00	85.76	A16S
ATOM	27374	O2*	C	A1296	262.730	126.305	-12.414	1.00	85.76	A16S
ATOM	27375	C3*	C	A1296	264.522	127.821	-13.029	1.00	85.76	A16S
ATOM	27376	O3*	C	A1296	265.232	126.619	-13.273	1.00	85.76	A16S
ATOM	27377	P	C	A1297	266.012	126.423	-14.660	1.00	55.81	A16S
ATOM	27378	O1P	C	A1297	266.663	125.084	-14.568	1.00	65.20	A16S
ATOM	27379	O2P	C	A1297	266.840	127.630	-14.952	1.00	65.20	A16S
ATOM	27380	O5*	C	A1297	264.852	126.383	-15.753	1.00	55.81	A16S
ATOM	27381	C5*	C	A1297	263.982	125.251	-15.858	1.00	55.81	A16S
ATOM	27382	C4*	C	A1297	262.986	125.480	-16.954	1.00	55.81	A16S
ATOM	27383	O4*	C	A1297	262.379	126.776	-16.723	1.00	55.81	A16S
ATOM	27384	C1*	C	A1297	262.431	127.539	-17.904	1.00	55.81	A16S
ATOM	27385	N1	C	A1297	262.590	128.947	-17.533	1.00	65.20	A16S
ATOM	27386	C6	C	A1297	263.549	129.332	-16.639	1.00	65.20	A16S
ATOM	27387	C2	C	A1297	261.732	129.900	-18.112	1.00	65.20	A16S
ATOM	27388	O2	C	A1297	260.866	129.530	-18.919	1.00	65.20	A16S
ATOM	27389	N3	C	A1297	261.865	131.196	-17.778	1.00	65.20	A16S
ATOM	27390	C4	C	A1297	262.801	131.564	-16.904	1.00	65.20	A16S
ATOM	27391	N4	C	A1297	262.884	132.863	-16.599	1.00	65.20	A16S
ATOM	27392	C5	C	A1297	263.690	130.618	-16.301	1.00	65.20	A16S
ATOM	27393	C2*	C	A1297	263.568	126.970	-18.750	1.00	55.81	A16S
ATOM	27394	O2*	C	A1297	263.298	127.171	-20.127	1.00	55.81	A16S
ATOM	27395	C3*	C	A1297	263.508	125.489	-18.395	1.00	55.81	A16S
ATOM	27396	O3*	C	A1297	262.550	124.879	-19.258	1.00	55.81	A16S
ATOM	27397	P	C	A1298	262.946	123.573	-20.103	1.00	65.98	A16S
ATOM	27398	O1P	C	A1298	263.864	122.752	-19.246	1.00	59.44	A16S
ATOM	27399	O2P	C	A1298	263.385	124.008	-21.457	1.00	59.44	A16S
ATOM	27400	O5*	C	A1298	261.552	122.822	-20.278	1.00	65.98	A16S
ATOM	27401	C5*	C	A1298	261.070	121.901	-19.279	1.00	65.98	A16S
ATOM	27402	C4*	C	A1298	259.565	121.841	-19.308	1.00	65.98	A16S
ATOM	27403	O4*	C	A1298	259.014	123.028	-18.670	1.00	65.98	A16S
ATOM	27404	C1*	C	A1298	258.020	123.563	-19.507	1.00	65.98	A16S
ATOM	27405	N1	C	A1298	257.870	125.006	-19.284	1.00	59.44	A16S

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ATOM	27406	C6	C	A1298	258.949	125.830	-19.157	1.00	59.44	A16S
ATOM	27407	C2	C	A1298	256.575	125.534	-19.257	1.00	59.44	A16S
ATOM	27408	O2	C	A1298	255.604	124.752	-19.278	1.00	59.44	A16S
ATOM	27409	N3	C	A1298	256.404	126.875	-19.199	1.00	59.44	A16S
ATOM	27410	C4	C	A1298	257.464	127.675	-19.146	1.00	59.44	A16S
ATOM	27411	N4	C	A1298	257.249	128.992	-19.168	1.00	59.44	A16S
ATOM	27412	C5	C	A1298	258.794	127.160	-19.088	1.00	59.44	A16S
ATOM	27413	C2*	C	A1298	258.452	123.193	-20.922	1.00	65.98	A16S
ATOM	27414	O2*	C	A1298	257.367	123.284	-21.820	1.00	65.98	A16S
ATOM	27415	C3*	C	A1298	258.949	121.770	-20.708	1.00	65.98	A16S
ATOM	27416	O3*	C	A1298	257.802	120.922	-20.726	1.00	65.98	A16S
ATOM	27417	P	A	A1299	257.981	119.341	-20.944	1.00	66.22	A16S
ATOM	27418	O1P	A	A1299	256.618	118.723	-20.858	1.00	74.24	A16S
ATOM	27419	O2P	A	A1299	258.823	119.115	-22.161	1.00	74.24	A16S
ATOM	27420	O5*	A	A1299	258.811	118.928	-19.654	1.00	66.22	A16S
ATOM	27421	C5*	A	A1299	259.817	117.924	-19.706	1.00	66.22	A16S
ATOM	27422	C4*	A	A1299	260.216	117.567	-18.308	1.00	66.22	A16S
ATOM	27423	O4*	A	A1299	260.665	118.768	-17.659	1.00	66.22	A16S
ATOM	27424	C1*	A	A1299	260.261	118.770	-16.314	1.00	66.22	A16S
ATOM	27425	N9	A	A1299	259.835	120.137	-15.988	1.00	74.24	A16S
ATOM	27426	C4	A	A1299	258.633	120.780	-16.152	1.00	74.24	A16S
ATOM	27427	N3	A	A1299	257.475	120.252	-16.565	1.00	74.24	A16S
ATOM	27428	C2	A	A1299	256.542	121.202	-16.664	1.00	74.24	A16S
ATOM	27429	N1	A	A1299	256.638	122.526	-16.425	1.00	74.24	A16S
ATOM	27430	C6	A	A1299	257.824	123.021	-16.022	1.00	74.24	A16S
ATOM	27431	N6	A	A1299	257.937	124.334	-15.821	1.00	74.24	A16S
ATOM	27432	C5	A	A1299	258.878	122.118	-15.856	1.00	74.24	A16S
ATOM	27433	N7	A	A1299	260.185	122.299	-15.444	1.00	74.24	A16S
ATOM	27434	C8	A	A1299	260.704	121.100	-15.519	1.00	74.24	A16S
ATOM	27435	C2*	A	A1299	259.445	117.502	-16.040	1.00	66.22	A16S
ATOM	27436	O2*	A	A1299	260.341	116.630	-15.384	1.00	66.22	A16S
ATOM	27437	C3*	A	A1299	259.078	117.037	-17.460	1.00	66.22	A16S
ATOM	27438	O3*	A	A1299	259.097	115.619	-17.716	1.00	66.22	A16S
ATOM	27439	P	G	A1300	258.030	114.635	-17.031	1.00	83.11	A16S
ATOM	27440	O1P	G	A1300	257.865	113.477	-17.940	1.00	62.89	A16S
ATOM	27441	O2P	G	A1300	256.844	115.437	-16.636	1.00	62.89	A16S
ATOM	27442	O5*	G	A1300	258.802	114.125	-15.730	1.00	83.11	A16S
ATOM	27443	C5*	G	A1300	258.112	113.626	-14.553	1.00	83.11	A16S
ATOM	27444	C4*	G	A1300	257.735	114.775	-13.651	1.00	83.11	A16S
ATOM	27445	O4*	G	A1300	256.458	115.265	-14.113	1.00	83.11	A16S
ATOM	27446	C1*	G	A1300	255.686	115.679	-13.018	1.00	83.11	A16S
ATOM	27447	N9	G	A1300	254.415	114.959	-13.045	1.00	62.89	A16S
ATOM	27448	C4	G	A1300	253.177	115.545	-13.173	1.00	62.89	A16S
ATOM	27449	N3	G	A1300	252.936	116.873	-13.243	1.00	62.89	A16S
ATOM	27450	C2	G	A1300	251.652	117.138	-13.351	1.00	62.89	A16S
ATOM	27451	N2	G	A1300	251.241	118.414	-13.401	1.00	62.89	A16S
ATOM	27452	N1	G	A1300	250.679	116.173	-13.411	1.00	62.89	A16S
ATOM	27453	C6	G	A1300	250.905	114.803	-13.352	1.00	62.89	A16S
ATOM	27454	O6	G	A1300	249.957	114.025	-13.435	1.00	62.89	A16S
ATOM	27455	C5	G	A1300	252.279	114.505	-13.207	1.00	62.89	A16S
ATOM	27456	N7	G	A1300	252.931	113.285	-13.074	1.00	62.89	A16S
ATOM	27457	C8	G	A1300	254.197	113.603	-12.977	1.00	62.89	A16S
ATOM	27458	C2*	G	A1300	256.533	115.544	-11.752	1.00	83.11	A16S
ATOM	27459	O2*	G	A1300	257.146	116.798	-11.532	1.00	83.11	A16S
ATOM	27460	C3*	G	A1300	257.551	114.489	-12.161	1.00	83.11	A16S
ATOM	27461	O3*	G	A1300	258.846	114.567	-11.499	1.00	83.11	A16S
ATOM	27462	P	U	A1301	259.081	115.457	-10.146	1.00	56.57	A16S
ATOM	27463	O1P	U	A1301	260.345	114.915	-9.578	1.00	62.88	A16S
ATOM	27464	O2P	U	A1301	257.877	115.512	-9.276	1.00	62.88	A16S
ATOM	27465	O5*	U	A1301	259.403	116.930	-10.692	1.00	56.57	A16S
ATOM	27466	C5*	U	A1301	260.637	117.195	-11.395	1.00	56.57	A16S
ATOM	27467	C4*	U	A1301	260.766	118.661	-11.714	1.00	56.57	A16S
ATOM	27468	O4*	U	A1301	259.760	118.996	-12.675	1.00	56.57	A16S
ATOM	27469	C1*	U	A1301	259.342	120.326	-12.473	1.00	56.57	A16S
ATOM	27470	N1	U	A1301	257.890	120.391	-12.681	1.00	62.88	A16S
ATOM	27471	C6	U	A1301	257.103	119.281	-12.520	1.00	62.88	A16S
ATOM	27472	C2	U	A1301	257.343	121.595	-13.062	1.00	62.88	A16S
ATOM	27473	O2	U	A1301	258.002	122.608	-13.197	1.00	62.88	A16S
ATOM	27474	N3	U	A1301	255.989	121.570	-13.279	1.00	62.88	A16S
ATOM	27475	C4	U	A1301	255.149	120.485	-13.147	1.00	62.88	A16S
ATOM	27476	O4	U	A1301	253.958	120.604	-13.412	1.00	62.88	A16S
ATOM	27477	C5	U	A1301	255.789	119.286	-12.734	1.00	62.88	A16S
ATOM	27478	C2*	U	A1301	259.876	120.845	-11.131	1.00	56.57	A16S
ATOM	27479	O2*	U	A1301	260.641	122.021	-11.310	1.00	56.57	A16S
ATOM	27480	C3*	U	A1301	260.564	119.606	-10.537	1.00	56.57	A16S
ATOM	27481	O3*	U	A1301	261.802	119.737	-9.768	1.00	56.57	A16S
ATOM	27482	P	U	A1302	262.871	120.940	-10.033	1.00	63.11	A16S

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ATOM	27483	O1P	U	A1302	262.880	121.400	-11.447	1.00	81.75	A16S
ATOM	27484	O2P	U	A1302	264.126	120.453	-9.427	1.00	81.75	A16S
ATOM	27485	O5*	U	A1302	262.363	122.127	-9.107	1.00	63.11	A16S
ATOM	27486	C5*	U	A1302	262.015	121.860	-7.738	1.00	63.11	A16S
ATOM	27487	C4*	U	A1302	261.030	122.884	-7.227	1.00	63.11	A16S
ATOM	27488	O4*	U	A1302	261.713	124.089	-6.798	1.00	63.11	A16S
ATOM	27489	C1*	U	A1302	261.113	125.228	-7.387	1.00	63.11	A16S
ATOM	27490	N1	U	A1302	262.200	126.167	-7.718	1.00	81.75	A16S
ATOM	27491	C6	U	A1302	263.256	125.783	-8.521	1.00	81.75	A16S
ATOM	27492	C2	U	A1302	262.149	127.449	-7.175	1.00	81.75	A16S
ATOM	27493	O2	U	A1302	261.219	127.854	-6.484	1.00	81.75	A16S
ATOM	27494	N3	U	A1302	263.228	128.243	-7.473	1.00	81.75	A16S
ATOM	27495	C4	U	A1302	264.322	127.909	-8.242	1.00	81.75	A16S
ATOM	27496	O4	U	A1302	265.246	128.715	-8.355	1.00	81.75	A16S
ATOM	27497	C5	U	A1302	264.287	126.587	-8.791	1.00	81.75	A16S
ATOM	27498	C2*	U	A1302	260.302	124.739	-8.588	1.00	63.11	A16S
ATOM	27499	O2*	U	A1302	259.263	125.626	-8.948	1.00	63.11	A16S
ATOM	27500	C3*	U	A1302	259.917	123.309	-8.172	1.00	63.11	A16S
ATOM	27501	O3*	U	A1302	258.607	122.856	-7.711	1.00	63.11	A16S
ATOM	27502	P	C	A1303	257.706	123.715	-6.671	1.00	65.80	A16S
ATOM	27503	O1P	C	A1303	258.240	125.103	-6.484	1.00	43.42	A16S
ATOM	27504	O2P	C	A1303	257.459	122.836	-5.477	1.00	43.42	A16S
ATOM	27505	O5*	C	A1303	256.314	123.855	-7.433	1.00	65.80	A16S
ATOM	27506	C5*	C	A1303	256.186	124.685	-8.612	1.00	65.80	A16S
ATOM	27507	C4*	C	A1303	254.933	124.321	-9.378	1.00	65.80	A16S
ATOM	27508	O4*	C	A1303	255.175	123.214	-10.278	1.00	65.80	A16S
ATOM	27509	C1*	C	A1303	254.011	122.412	-10.361	1.00	65.80	A16S
ATOM	27510	N1	C	A1303	254.347	121.030	-9.969	1.00	43.42	A16S
ATOM	27511	C6	C	A1303	255.629	120.675	-9.665	1.00	43.42	A16S
ATOM	27512	C2	C	A1303	253.329	120.062	-9.949	1.00	43.42	A16S
ATOM	27513	O2	C	A1303	252.161	120.412	-10.144	1.00	43.42	A16S
ATOM	27514	N3	C	A1303	253.641	118.778	-9.701	1.00	43.42	A16S
ATOM	27515	C4	C	A1303	254.896	118.440	-9.438	1.00	43.42	A16S
ATOM	27516	N4	C	A1303	255.153	117.162	-9.209	1.00	43.42	A16S
ATOM	27517	C5	C	A1303	255.944	119.401	-9.397	1.00	43.42	A16S
ATOM	27518	C2*	C	A1303	252.931	123.054	-9.496	1.00	65.80	A16S
ATOM	27519	O2*	C	A1303	252.101	123.868	-10.296	1.00	65.80	A16S
ATOM	27520	C3*	C	A1303	253.767	123.860	-8.522	1.00	65.80	A16S
ATOM	27521	O3*	C	A1303	253.043	124.926	-7.936	1.00	65.80	A16S
ATOM	27522	P	G	A1304	252.547	124.786	-6.417	1.00	59.51	A16S
ATOM	27523	O1P	G	A1304	251.425	125.757	-6.273	1.00	64.73	A16S
ATOM	27524	O2P	G	A1304	253.732	124.877	-5.505	1.00	64.73	A16S
ATOM	27525	O5*	G	A1304	251.956	123.304	-6.358	1.00	59.51	A16S
ATOM	27526	C5*	G	A1304	250.747	122.954	-7.073	1.00	59.51	A16S
ATOM	27527	C4*	G	A1304	250.244	121.616	-6.605	1.00	59.51	A16S
ATOM	27528	O4*	G	A1304	250.955	120.534	-7.253	1.00	59.51	A16S
ATOM	27529	C1*	G	A1304	251.160	119.468	-6.335	1.00	59.51	A16S
ATOM	27530	N9	G	A1304	252.601	119.224	-6.244	1.00	64.73	A16S
ATOM	27531	C4	G	A1304	253.273	118.012	-6.302	1.00	64.73	A16S
ATOM	27532	N3	G	A1304	252.719	116.787	-6.445	1.00	64.73	A16S
ATOM	27533	C2	G	A1304	253.639	115.823	-6.450	1.00	64.73	A16S
ATOM	27534	N2	G	A1304	253.275	114.533	-6.554	1.00	64.73	A16S
ATOM	27535	N1	G	A1304	254.984	116.052	-6.344	1.00	64.73	A16S
ATOM	27536	C6	G	A1304	255.573	117.305	-6.208	1.00	64.73	A16S
ATOM	27537	O6	G	A1304	256.810	117.410	-6.135	1.00	64.73	A16S
ATOM	27538	C5	G	A1304	254.608	118.335	-6.179	1.00	64.73	A16S
ATOM	27539	N7	G	A1304	254.777	119.703	-6.044	1.00	64.73	A16S
ATOM	27540	C8	G	A1304	253.568	120.187	-6.089	1.00	64.73	A16S
ATOM	27541	C2*	G	A1304	250.496	119.873	-5.010	1.00	59.51	A16S
ATOM	27542	O2*	G	A1304	249.209	119.308	-4.950	1.00	59.51	A16S
ATOM	27543	C3*	G	A1304	250.448	121.393	-5.125	1.00	59.51	A16S
ATOM	27544	O3*	G	A1304	249.379	121.999	-4.425	1.00	59.51	A16S
ATOM	27545	P	G	A1305	249.591	122.516	-2.919	1.00	54.07	A16S
ATOM	27546	O1P	G	A1305	248.975	123.865	-2.795	1.00	75.45	A16S
ATOM	27547	O2P	G	A1305	250.992	122.311	-2.502	1.00	75.45	A16S
ATOM	27548	O5*	G	A1305	248.683	121.515	-2.094	1.00	54.07	A16S
ATOM	27549	C5*	G	A1305	249.018	121.147	-0.767	1.00	54.07	A16S
ATOM	27550	C4*	G	A1305	249.316	119.699	-0.732	1.00	54.07	A16S
ATOM	27551	O4*	G	A1305	250.252	119.465	-1.786	1.00	54.07	A16S
ATOM	27552	C1*	G	A1305	251.180	118.507	-1.366	1.00	54.07	A16S
ATOM	27553	N9	G	A1305	252.517	118.994	-1.687	1.00	75.45	A16S
ATOM	27554	C4	G	A1305	253.560	118.254	-2.195	1.00	75.45	A16S
ATOM	27555	N3	G	A1305	253.560	116.923	-2.409	1.00	75.45	A16S
ATOM	27556	C2	G	A1305	254.696	116.507	-2.934	1.00	75.45	A16S
ATOM	27557	N2	G	A1305	254.868	115.212	-3.211	1.00	75.45	A16S
ATOM	27558	N1	G	A1305	255.747	117.332	-3.228	1.00	75.45	A16S
ATOM	27559	C6	G	A1305	255.770	118.707	-3.020	1.00	75.45	A16S

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ATOM	27560	O6	G	A1305	256.775	119.369	-3.337	1.00	75.45	A16S
ATOM	27561	C5	G	A1305	254.561	119.162	-2.450	1.00	75.45	A16S
ATOM	27562	N7	G	A1305	254.173	120.438	-2.076	1.00	75.45	A16S
ATOM	27563	C8	G	A1305	252.962	120.286	-1.614	1.00	75.45	A16S
ATOM	27564	C2*	G	A1305	250.826	118.062	0.059	1.00	54.07	A16S
ATOM	27565	O2*	G	A1305	249.988	116.940	-0.079	1.00	54.07	A16S
ATOM	27566	C3*	G	A1305	249.944	119.195	0.553	1.00	54.07	A16S
ATOM	27567	O3*	G	A1305	248.846	118.689	1.350	1.00	54.07	A16S
ATOM	27568	P	A	A1306	249.112	117.720	2.629	1.00	49.68	A16S
ATOM	27569	O1P	A	A1306	248.166	118.171	3.684	1.00	48.37	A16S
ATOM	27570	O2P	A	A1306	250.579	117.679	2.931	1.00	48.37	A16S
ATOM	27571	O5*	A	A1306	248.691	116.245	2.160	1.00	49.68	A16S
ATOM	27572	C5*	A	A1306	247.322	115.904	1.835	1.00	49.68	A16S
ATOM	27573	C4*	A	A1306	247.243	114.506	1.235	1.00	49.68	A16S
ATOM	27574	O4*	A	A1306	248.039	114.449	0.022	1.00	49.68	A16S
ATOM	27575	C1*	A	A1306	248.689	113.192	-0.080	1.00	49.68	A16S
ATOM	27576	N9	A	A1306	250.134	113.423	-0.009	1.00	48.37	A16S
ATOM	27577	C4	A	A1306	251.144	112.495	-0.112	1.00	48.37	A16S
ATOM	27578	N3	A	A1306	251.027	111.176	-0.331	1.00	48.37	A16S
ATOM	27579	C2	A	A1306	252.219	110.599	-0.336	1.00	48.37	A16S
ATOM	27580	N1	A	A1306	253.426	111.146	-0.155	1.00	48.37	A16S
ATOM	27581	C6	A	A1306	253.507	112.473	0.072	1.00	48.37	A16S
ATOM	27582	N6	A	A1306	254.706	113.026	0.283	1.00	48.37	A16S
ATOM	27583	C5	A	A1306	252.318	113.198	0.086	1.00	48.37	A16S
ATOM	27584	N7	A	A1306	252.058	114.543	0.284	1.00	48.37	A16S
ATOM	27585	C8	A	A1306	250.757	114.620	0.212	1.00	48.37	A16S
ATOM	27586	C2*	A	A1306	248.193	112.325	1.077	1.00	49.68	A16S
ATOM	27587	O2*	A	A1306	247.110	111.535	0.640	1.00	49.68	A16S
ATOM	27588	C3*	A	A1306	247.780	113.376	2.099	1.00	49.68	A16S
ATOM	27589	O3*	A	A1306	246.787	112.871	2.978	1.00	49.68	A16S
ATOM	27590	P	U	A1307	247.192	112.457	4.474	1.00	53.01	A16S
ATOM	27591	O1P	U	A1307	245.983	111.903	5.158	1.00	55.14	A16S
ATOM	27592	O2P	U	A1307	247.903	113.634	5.049	1.00	55.14	A16S
ATOM	27593	O5*	U	A1307	248.252	111.285	4.288	1.00	53.01	A16S
ATOM	27594	C5*	U	A1307	247.896	110.087	3.605	1.00	53.01	A16S
ATOM	27595	C4*	U	A1307	249.120	109.253	3.357	1.00	53.01	A16S
ATOM	27596	O4*	U	A1307	249.988	109.928	2.408	1.00	53.01	A16S
ATOM	27597	C1*	U	A1307	251.348	109.678	2.745	1.00	53.01	A16S
ATOM	27598	N1	U	A1307	252.021	110.964	3.003	1.00	55.14	A16S
ATOM	27599	C6	U	A1307	251.309	112.125	3.185	1.00	55.14	A16S
ATOM	27600	C2	U	A1307	253.399	110.971	3.057	1.00	55.14	A16S
ATOM	27601	O2	U	A1307	254.070	109.963	2.918	1.00	55.14	A16S
ATOM	27602	N3	U	A1307	253.967	112.202	3.283	1.00	55.14	A16S
ATOM	27603	C4	U	A1307	253.312	113.403	3.457	1.00	55.14	A16S
ATOM	27604	O4	U	A1307	253.962	114.447	3.567	1.00	55.14	A16S
ATOM	27605	C5	U	A1307	251.893	113.310	3.406	1.00	55.14	A16S
ATOM	27606	C2*	U	A1307	251.360	108.757	3.966	1.00	53.01	A16S
ATOM	27607	O2*	U	A1307	251.497	107.414	3.559	1.00	53.01	A16S
ATOM	27608	C3*	U	A1307	249.995	109.036	4.575	1.00	53.01	A16S
ATOM	27609	O3*	U	A1307	249.543	107.979	5.402	1.00	53.01	A16S
ATOM	27610	P	U	A1308	249.804	108.066	6.984	1.00	67.10	A16S
ATOM	27611	O1P	U	A1308	249.143	106.897	7.623	1.00	63.72	A16S
ATOM	27612	O2P	U	A1308	249.439	109.451	7.410	1.00	63.72	A16S
ATOM	27613	O5*	U	A1308	251.380	107.868	7.107	1.00	67.10	A16S
ATOM	27614	C5*	U	A1308	251.975	106.572	6.881	1.00	67.10	A16S
ATOM	27615	C4*	U	A1308	253.486	106.653	6.957	1.00	67.10	A16S
ATOM	27616	O4*	U	A1308	253.963	107.563	5.935	1.00	67.10	A16S
ATOM	27617	C1*	U	A1308	255.115	108.242	6.398	1.00	67.10	A16S
ATOM	27618	N1	U	A1308	254.825	109.681	6.460	1.00	63.72	A16S
ATOM	27619	C6	U	A1308	253.537	110.151	6.553	1.00	63.72	A16S
ATOM	27620	C2	U	A1308	255.906	110.556	6.430	1.00	63.72	A16S
ATOM	27621	O2	U	A1308	257.074	110.181	6.338	1.00	63.72	A16S
ATOM	27622	N3	U	A1308	255.572	111.885	6.512	1.00	63.72	A16S
ATOM	27623	C4	U	A1308	254.307	112.416	6.608	1.00	63.72	A16S
ATOM	27624	O4	U	A1308	254.169	113.636	6.659	1.00	63.72	A16S
ATOM	27625	C5	U	A1308	253.250	111.450	6.626	1.00	63.72	A16S
ATOM	27626	C2*	U	A1308	255.447	107.703	7.783	1.00	67.10	A16S
ATOM	27627	O2*	U	A1308	256.393	106.666	7.647	1.00	67.10	A16S
ATOM	27628	C3*	U	A1308	254.090	107.198	8.245	1.00	67.10	A16S
ATOM	27629	O3*	U	A1308	254.226	106.222	9.268	1.00	67.10	A16S
ATOM	27630	P	G	A1309	254.568	106.695	10.767	1.00	83.54	A16S
ATOM	27631	O1P	G	A1309	254.374	105.509	11.645	1.00	58.22	A16S
ATOM	27632	O2P	G	A1309	253.833	107.957	11.053	1.00	58.22	A16S
ATOM	27633	O5*	G	A1309	256.124	107.048	10.720	1.00	83.54	A16S
ATOM	27634	C5*	G	A1309	257.114	106.009	10.538	1.00	83.54	A16S
ATOM	27635	C4*	G	A1309	258.517	106.585	10.565	1.00	83.54	A16S
ATOM	27636	O4*	G	A1309	258.712	107.468	9.428	1.00	83.54	A16S

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ATOM	27637	C1*	G	A1309	259.567	108.542	9.791	1.00	83.54	A16S
ATOM	27638	N9	G	A1309	258.784	109.770	9.758	1.00	58.22	A16S
ATOM	27639	C4	G	A1309	259.261	111.057	9.782	1.00	58.22	A16S
ATOM	27640	N3	G	A1309	260.556	111.424	9.805	1.00	58.22	A16S
ATOM	27641	C2	G	A1309	260.692	112.744	9.840	1.00	58.22	A16S
ATOM	27642	N2	G	A1309	261.915	113.291	9.857	1.00	58.22	A16S
ATOM	27643	N1	G	A1309	259.637	113.623	9.856	1.00	58.22	A16S
ATOM	27644	C6	G	A1309	258.297	113.257	9.827	1.00	58.22	A16S
ATOM	27645	O6	G	A1309	257.419	114.124	9.830	1.00	58.22	A16S
ATOM	27646	C5	G	A1309	258.143	111.858	9.790	1.00	58.22	A16S
ATOM	27647	N7	G	A1309	256.992	111.095	9.757	1.00	58.22	A16S
ATOM	27648	C8	G	A1309	257.420	109.865	9.732	1.00	58.22	A16S
ATOM	27649	C2*	G	A1309	260.035	108.283	11.220	1.00	83.54	A16S
ATOM	27650	O2*	G	A1309	261.280	107.609	11.195	1.00	83.54	A16S
ATOM	27651	C3*	G	A1309	258.884	107.444	11.764	1.00	83.54	A16S
ATOM	27652	O3*	G	A1309	259.238	106.697	12.920	1.00	83.54	A16S
ATOM	27653	P	G	A1310	258.880	107.285	14.377	1.00	79.80	A16S
ATOM	27654	O1P	G	A1310	259.324	106.262	15.362	1.00	77.13	A16S
ATOM	27655	O2P	G	A1310	257.462	107.726	14.376	1.00	77.13	A16S
ATOM	27656	O5*	G	A1310	259.790	108.597	14.499	1.00	79.80	A16S
ATOM	27657	C5*	G	A1310	261.230	108.512	14.378	1.00	79.80	A16S
ATOM	27658	C4*	G	A1310	261.884	109.885	14.454	1.00	79.80	A16S
ATOM	27659	O4*	G	A1310	261.598	110.671	13.265	1.00	79.80	A16S
ATOM	27660	C1*	G	A1310	261.597	112.052	13.596	1.00	79.80	A16S
ATOM	27661	N9	G	A1310	260.272	112.606	13.329	1.00	77.13	A16S
ATOM	27662	C4	G	A1310	259.966	113.936	13.178	1.00	77.13	A16S
ATOM	27663	N3	G	A1310	260.843	114.961	13.218	1.00	77.13	A16S
ATOM	27664	C2	G	A1310	260.242	116.132	13.060	1.00	77.13	A16S
ATOM	27665	N2	G	A1310	260.961	117.258	13.075	1.00	77.13	A16S
ATOM	27666	N1	G	A1310	258.890	116.284	12.878	1.00	77.13	A16S
ATOM	27667	C6	G	A1310	257.967	115.241	12.830	1.00	77.13	A16S
ATOM	27668	O6	G	A1310	256.759	115.487	12.659	1.00	77.13	A16S
ATOM	27669	C5	G	A1310	258.599	113.978	12.997	1.00	77.13	A16S
ATOM	27670	N7	G	A1310	258.059	112.700	13.013	1.00	77.13	A16S
ATOM	27671	C8	G	A1310	259.086	111.919	13.208	1.00	77.13	A16S
ATOM	27672	C2*	G	A1310	261.937	112.171	15.080	1.00	79.80	A16S
ATOM	27673	O2*	G	A1310	263.325	112.412	15.210	1.00	79.80	A16S
ATOM	27674	C3*	G	A1310	261.511	110.803	15.608	1.00	79.80	A16S
ATOM	27675	O3*	G	A1310	262.175	110.466	16.825	1.00	79.80	A16S
ATOM	27676	P	G	A1311	261.474	110.815	18.238	1.00	88.03	A16S
ATOM	27677	O1P	G	A1311	262.265	110.105	19.281	1.00	73.25	A16S
ATOM	27678	O2P	G	A1311	260.010	110.569	18.138	1.00	73.25	A16S
ATOM	27679	O5*	G	A1311	261.676	112.391	18.392	1.00	88.03	A16S
ATOM	27680	C5*	G	A1311	262.993	112.964	18.375	1.00	88.03	A16S
ATOM	27681	C4*	G	A1311	262.924	114.469	18.257	1.00	88.03	A16S
ATOM	27682	O4*	G	A1311	262.366	114.846	16.971	1.00	88.03	A16S
ATOM	27683	C1*	G	A1311	261.678	116.083	17.098	1.00	88.03	A16S
ATOM	27684	N9	G	A1311	260.278	115.917	16.691	1.00	73.25	A16S
ATOM	27685	C4	G	A1311	259.444	116.933	16.283	1.00	73.25	A16S
ATOM	27686	N3	G	A1311	259.784	118.234	16.171	1.00	73.25	A16S
ATOM	27687	C2	G	A1311	258.764	118.982	15.792	1.00	73.25	A16S
ATOM	27688	N2	G	A1311	258.927	120.307	15.657	1.00	73.25	A16S
ATOM	27689	N1	G	A1311	257.512	118.492	15.526	1.00	73.25	A16S
ATOM	27690	C6	G	A1311	257.140	117.158	15.626	1.00	73.25	A16S
ATOM	27691	O6	G	A1311	255.987	116.829	15.360	1.00	73.25	A16S
ATOM	27692	C5	G	A1311	258.225	116.339	16.049	1.00	73.25	A16S
ATOM	27693	N7	G	A1311	258.287	114.969	16.290	1.00	73.25	A16S
ATOM	27694	C8	G	A1311	259.523	114.762	16.662	1.00	73.25	A16S
ATOM	27695	C2*	G	A1311	261.789	116.530	18.557	1.00	88.03	A16S
ATOM	27696	O2*	G	A1311	262.833	117.474	18.713	1.00	88.03	A16S
ATOM	27697	C3*	G	A1311	262.055	115.205	19.261	1.00	88.03	A16S
ATOM	27698	O3*	G	A1311	262.678	115.391	20.517	1.00	88.03	A16S
ATOM	27699	P	G	A1312	261.769	115.479	21.842	1.00	83.05	A16S
ATOM	27700	O1P	G	A1312	262.729	115.819	22.922	1.00	63.63	A16S
ATOM	27701	O2P	G	A1312	260.941	114.239	21.962	1.00	63.63	A16S
ATOM	27702	O5*	G	A1312	260.839	116.760	21.591	1.00	83.05	A16S
ATOM	27703	C5*	G	A1312	261.434	118.072	21.600	1.00	83.05	A16S
ATOM	27704	C4*	G	A1312	260.499	119.138	21.062	1.00	83.05	A16S
ATOM	27705	O4*	G	A1312	259.975	118.761	19.766	1.00	83.05	A16S
ATOM	27706	C1*	G	A1312	258.814	119.534	19.495	1.00	83.05	A16S
ATOM	27707	N9	G	A1312	257.689	118.674	19.115	1.00	63.63	A16S
ATOM	27708	C4	G	A1312	256.499	119.123	18.580	1.00	63.63	A16S
ATOM	27709	N3	G	A1312	256.195	120.408	18.306	1.00	63.63	A16S
ATOM	27710	C2	G	A1312	254.977	120.538	17.828	1.00	63.63	A16S
ATOM	27711	N2	G	A1312	254.520	121.763	17.513	1.00	63.63	A16S
ATOM	27712	N1	G	A1312	254.121	119.483	17.625	1.00	63.63	A16S
ATOM	27713	C6	G	A1312	254.413	118.149	17.896	1.00	63.63	A16S

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ATOM	27714	O6	G	A1312	253.564	117.272	17.676	1.00	63.63	A16S
ATOM	27715	C5	G	A1312	255.721	117.999	18.418	1.00	63.63	A16S
ATOM	27716	N7	G	A1312	256.408	116.860	18.822	1.00	63.63	A16S
ATOM	27717	C8	G	A1312	257.570	117.306	19.225	1.00	63.63	A16S
ATOM	27718	C2*	G	A1312	258.499	120.343	20.752	1.00	83.05	A16S
ATOM	27719	O2*	G	A1312	259.005	121.653	20.573	1.00	83.05	A16S
ATOM	27720	C3*	G	A1312	259.254	119.568	21.828	1.00	83.05	A16S
ATOM	27721	O3*	G	A1312	259.521	120.441	22.924	1.00	83.05	A16S
ATOM	27722	P	U	A1313	258.393	120.670	24.054	1.00	84.69	A16S
ATOM	27723	O1P	U	A1313	259.045	121.307	25.221	1.00	76.14	A16S
ATOM	27724	O2P	U	A1313	257.679	119.371	24.234	1.00	76.14	A16S
ATOM	27725	O5*	U	A1313	257.417	121.767	23.423	1.00	84.69	A16S
ATOM	27726	C5*	U	A1313	257.909	123.094	23.135	1.00	84.69	A16S
ATOM	27727	C4*	U	A1313	256.815	123.988	22.573	1.00	84.69	A16S
ATOM	27728	O4*	U	A1313	256.330	123.456	21.318	1.00	84.69	A16S
ATOM	27729	C1*	U	A1313	254.961	123.802	21.148	1.00	84.69	A16S
ATOM	27730	N1	U	A1313	254.171	122.566	21.028	1.00	76.14	A16S
ATOM	27731	C6	U	A1313	254.696	121.342	21.399	1.00	76.14	A16S
ATOM	27732	C2	U	A1313	252.871	122.670	20.531	1.00	76.14	A16S
ATOM	27733	O2	U	A1313	252.350	123.740	20.205	1.00	76.14	A16S
ATOM	27734	N3	U	A1313	252.201	121.477	20.441	1.00	76.14	A16S
ATOM	27735	C4	U	A1313	252.672	120.227	20.800	1.00	76.14	A16S
ATOM	27736	O4	U	A1313	251.914	119.264	20.743	1.00	76.14	A16S
ATOM	27737	C5	U	A1313	254.010	120.206	21.304	1.00	76.14	A16S
ATOM	27738	C2*	U	A1313	254.528	124.621	22.361	1.00	84.69	A16S
ATOM	27739	O2*	U	A1313	254.566	126.004	22.064	1.00	84.69	A16S
ATOM	27740	C3*	U	A1313	255.555	124.194	23.400	1.00	84.69	A16S
ATOM	27741	O3*	U	A1313	255.689	125.203	24.381	1.00	84.69	A16S
ATOM	27742	P	C	A1314	254.791	125.128	25.703	1.00	107.31	A16S
ATOM	27743	O1P	C	A1314	255.047	126.378	26.458	1.00	59.24	A16S
ATOM	27744	O2P	C	A1314	255.052	123.806	26.340	1.00	59.24	A16S
ATOM	27745	O5*	C	A1314	253.297	125.191	25.152	1.00	107.31	A16S
ATOM	27746	C5*	C	A1314	252.763	126.431	24.651	1.00	107.31	A16S
ATOM	27747	C4*	C	A1314	251.296	126.291	24.315	1.00	107.31	A16S
ATOM	27748	O4*	C	A1314	251.126	125.429	23.158	1.00	107.31	A16S
ATOM	27749	C1*	C	A1314	249.885	124.745	23.258	1.00	107.31	A16S
ATOM	27750	N1	C	A1314	250.124	123.288	23.281	1.00	59.24	A16S
ATOM	27751	C6	C	A1314	251.326	122.768	23.678	1.00	59.24	A16S
ATOM	27752	C2	C	A1314	249.078	122.434	22.896	1.00	59.24	A16S
ATOM	27753	O2	C	A1314	247.992	122.933	22.544	1.00	59.24	A16S
ATOM	27754	N3	C	A1314	249.276	121.092	22.925	1.00	59.24	A16S
ATOM	27755	C4	C	A1314	250.449	120.598	23.324	1.00	59.24	A16S
ATOM	27756	N4	C	A1314	250.595	119.271	23.352	1.00	59.24	A16S
ATOM	27757	C5	C	A1314	251.528	121.443	23.717	1.00	59.24	A16S
ATOM	27758	C2*	C	A1314	249.204	125.201	24.545	1.00	107.31	A16S
ATOM	27759	O2*	C	A1314	248.292	126.238	24.246	1.00	107.31	A16S
ATOM	27760	C3*	C	A1314	250.392	125.674	25.369	1.00	107.31	A16S
ATOM	27761	O3*	C	A1314	249.989	126.583	26.373	1.00	107.31	A16S
ATOM	27762	P	U	A1315	249.457	126.012	27.779	1.00	82.18	A16S
ATOM	27763	O1P	U	A1315	249.424	127.179	28.700	1.00	66.67	A16S
ATOM	27764	O2P	U	A1315	250.222	124.787	28.146	1.00	66.67	A16S
ATOM	27765	O5*	U	A1315	247.961	125.538	27.490	1.00	82.18	A16S
ATOM	27766	C5*	U	A1315	246.938	126.478	27.082	1.00	82.18	A16S
ATOM	27767	C4*	U	A1315	245.688	125.744	26.637	1.00	82.18	A16S
ATOM	27768	O4*	U	A1315	245.980	124.937	25.467	1.00	82.18	A16S
ATOM	27769	C1*	U	A1315	245.188	123.768	25.487	1.00	82.18	A16S
ATOM	27770	N1	U	A1315	246.072	122.594	25.397	1.00	66.67	A16S
ATOM	27771	C6	U	A1315	247.380	122.660	25.800	1.00	66.67	A16S
ATOM	27772	C2	U	A1315	245.542	121.400	24.895	1.00	66.67	A16S
ATOM	27773	O2	U	A1315	244.389	121.285	24.505	1.00	66.67	A16S
ATOM	27774	N3	U	A1315	246.417	120.342	24.866	1.00	66.67	A16S
ATOM	27775	C4	U	A1315	247.734	120.346	25.264	1.00	66.67	A16S
ATOM	27776	O4	U	A1315	248.398	119.312	25.178	1.00	66.67	A16S
ATOM	27777	C5	U	A1315	248.206	121.608	25.753	1.00	66.67	A16S
ATOM	27778	C2*	U	A1315	244.315	123.808	26.746	1.00	82.18	A16S
ATOM	27779	O2*	U	A1315	243.041	124.308	26.397	1.00	82.18	A16S
ATOM	27780	C3*	U	A1315	245.078	124.778	27.643	1.00	82.18	A16S
ATOM	27781	O3*	U	A1315	244.178	125.472	28.519	1.00	82.18	A16S
ATOM	27782	P	G	A1316	244.350	125.367	30.125	1.00	84.88	A16S
ATOM	27783	O1P	G	A1316	243.456	126.422	30.684	1.00	87.63	A16S
ATOM	27784	O2P	G	A1316	245.795	125.353	30.494	1.00	87.63	A16S
ATOM	27785	O5*	G	A1316	243.741	123.947	30.512	1.00	84.88	A16S
ATOM	27786	C5*	G	A1316	242.363	123.666	30.274	1.00	84.88	A16S
ATOM	27787	C4*	G	A1316	242.186	122.210	29.975	1.00	84.88	A16S
ATOM	27788	O4*	G	A1316	243.002	121.850	28.835	1.00	84.88	A16S
ATOM	27789	C1*	G	A1316	243.405	120.498	28.952	1.00	84.88	A16S
ATOM	27790	N9	G	A1316	244.853	120.413	28.792	1.00	87.63	A16S

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ATOM	27791	C4	G	A1316	245.565	119.285	28.440	1.00	87.63	A16S
ATOM	27792	N3	G	A1316	245.044	118.068	28.152	1.00	87.63	A16S
ATOM	27793	C2	G	A1316	245.983	117.177	27.870	1.00	87.63	A16S
ATOM	27794	N2	G	A1316	245.642	115.921	27.556	1.00	87.63	A16S
ATOM	27795	N1	G	A1316	247.326	117.450	27.874	1.00	87.63	A16S
ATOM	27796	C6	G	A1316	247.887	118.688	28.170	1.00	87.63	A16S
ATOM	27797	O6	G	A1316	249.115	118.819	28.158	1.00	87.63	A16S
ATOM	27798	C5	G	A1316	246.887	119.665	28.467	1.00	87.63	A16S
ATOM	27799	N7	G	A1316	247.007	121.009	28.802	1.00	87.63	A16S
ATOM	27800	C8	G	A1316	245.777	121.411	28.980	1.00	87.63	A16S
ATOM	27801	C2*	G	A1316	242.920	119.976	30.307	1.00	84.88	A16S
ATOM	27802	O2*	G	A1316	241.757	119.184	30.150	1.00	84.88	A16S
ATOM	27803	C3*	G	A1316	242.655	121.271	31.066	1.00	84.88	A16S
ATOM	27804	O3*	G	A1316	241.655	121.108	32.059	1.00	84.88	A16S
ATOM	27805	P	C	A1317	242.078	121.060	33.609	1.00	86.81	A16S
ATOM	27806	O1P	C	A1317	242.973	122.244	33.805	1.00	85.64	A16S
ATOM	27807	O2P	C	A1317	240.831	120.924	34.422	1.00	85.64	A16S
ATOM	27808	O5*	C	A1317	242.905	119.698	33.760	1.00	86.81	A16S
ATOM	27809	C5*	C	A1317	243.838	119.514	34.847	1.00	86.81	A16S
ATOM	27810	C4*	C	A1317	244.224	118.054	34.998	1.00	86.81	A16S
ATOM	27811	O4*	C	A1317	243.069	117.268	35.389	1.00	86.81	A16S
ATOM	27812	C1*	C	A1317	243.212	115.941	34.906	1.00	86.81	A16S
ATOM	27813	N1	C	A1317	242.006	115.573	34.134	1.00	85.64	A16S
ATOM	27814	C6	C	A1317	241.314	116.516	33.420	1.00	85.64	A16S
ATOM	27815	C2	C	A1317	241.570	114.226	34.143	1.00	85.64	A16S
ATOM	27816	O2	C	A1317	242.218	113.378	34.778	1.00	85.64	A16S
ATOM	27817	N3	C	A1317	240.458	113.890	33.457	1.00	85.64	A16S
ATOM	27818	C4	C	A1317	239.785	114.823	32.774	1.00	85.64	A16S
ATOM	27819	N4	C	A1317	238.681	114.444	32.122	1.00	85.64	A16S
ATOM	27820	C5	C	A1317	240.211	116.190	32.733	1.00	85.64	A16S
ATOM	27821	C2*	C	A1317	244.513	115.866	34.102	1.00	86.81	A16S
ATOM	27822	O2*	C	A1317	245.526	115.284	34.894	1.00	86.81	A16S
ATOM	27823	C3*	C	A1317	244.779	117.334	33.778	1.00	86.81	A16S
ATOM	27824	O3*	C	A1317	246.170	117.571	33.587	1.00	86.81	A16S
ATOM	27825	P	A	A1318	246.749	117.730	32.093	1.00	107.18	A16S
ATOM	27826	O1P	A	A1318	248.244	117.790	32.149	1.00	67.76	A16S
ATOM	27827	O2P	A	A1318	245.994	118.846	31.459	1.00	67.76	A16S
ATOM	27828	O5*	A	A1318	246.347	116.361	31.379	1.00	107.18	A16S
ATOM	27829	C5*	A	A1318	246.841	115.105	31.878	1.00	107.18	A16S
ATOM	27830	C4*	A	A1318	246.054	113.947	31.300	1.00	107.18	A16S
ATOM	27831	O4*	A	A1318	244.647	114.124	31.595	1.00	107.18	A16S
ATOM	27832	C1*	A	A1318	243.864	113.588	30.543	1.00	107.18	A16S
ATOM	27833	N9	A	A1318	243.001	114.658	30.032	1.00	67.76	A16S
ATOM	27834	C4	A	A1318	241.790	114.505	29.394	1.00	67.76	A16S
ATOM	27835	N3	A	A1318	241.168	113.353	29.082	1.00	67.76	A16S
ATOM	27836	C2	A	A1318	240.003	113.598	28.472	1.00	67.76	A16S
ATOM	27837	N1	A	A1318	239.432	114.776	28.164	1.00	67.76	A16S
ATOM	27838	C6	A	A1318	240.085	115.914	28.490	1.00	67.76	A16S
ATOM	27839	N6	A	A1318	239.520	117.084	28.183	1.00	67.76	A16S
ATOM	27840	C5	A	A1318	241.333	115.791	29.140	1.00	67.76	A16S
ATOM	27841	N7	A	A1318	242.244	116.734	29.595	1.00	67.76	A16S
ATOM	27842	C8	A	A1318	243.214	116.016	30.107	1.00	67.76	A16S
ATOM	27843	C2*	A	A1318	244.819	112.978	29.513	1.00	107.18	A16S
ATOM	27844	O2*	A	A1318	244.955	111.591	29.777	1.00	107.18	A16S
ATOM	27845	C3*	A	A1318	246.111	113.741	29.793	1.00	107.18	A16S
ATOM	27846	O3*	A	A1318	247.252	112.968	29.439	1.00	107.18	A16S
ATOM	27847	P	A	A1319	248.117	113.366	28.145	1.00	108.56	A16S
ATOM	27848	O1P	A	A1319	249.361	112.553	28.229	1.00	62.45	A16S
ATOM	27849	O2P	A	A1319	248.209	114.860	28.043	1.00	62.45	A16S
ATOM	27850	O5*	A	A1319	247.243	112.815	26.931	1.00	108.56	A16S
ATOM	27851	C5*	A	A1319	247.779	112.741	25.591	1.00	108.56	A16S
ATOM	27852	C4*	A	A1319	246.662	112.878	24.583	1.00	108.56	A16S
ATOM	27853	O4*	A	A1319	246.081	114.183	24.713	1.00	108.56	A16S
ATOM	27854	C1*	A	A1319	245.304	114.405	23.573	1.00	108.56	A16S
ATOM	27855	N9	A	A1319	245.012	115.828	23.448	1.00	62.45	A16S
ATOM	27856	C4	A	A1319	243.835	116.316	22.937	1.00	62.45	A16S
ATOM	27857	N3	A	A1319	242.818	115.600	22.418	1.00	62.45	A16S
ATOM	27858	C2	A	A1319	241.826	116.401	22.051	1.00	62.45	A16S
ATOM	27859	N1	A	A1319	241.740	117.739	22.133	1.00	62.45	A16S
ATOM	27860	C6	A	A1319	242.783	118.431	22.649	1.00	62.45	A16S
ATOM	27861	N6	A	A1319	242.700	119.766	22.710	1.00	62.45	A16S
ATOM	27862	C5	A	A1319	243.899	117.693	23.085	1.00	62.45	A16S
ATOM	27863	N7	A	A1319	245.111	118.070	23.653	1.00	62.45	A16S
ATOM	27864	C8	A	A1319	245.741	116.930	23.835	1.00	62.45	A16S
ATOM	27865	C2*	A	A1319	245.952	113.660	22.406	1.00	108.56	A16S
ATOM	27866	O2*	A	A1319	244.937	112.907	21.761	1.00	108.56	A16S
ATOM	27867	C3*	A	A1319	247.039	112.817	23.107	1.00	108.56	A16S

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ATOM	27868	O3*	A	A1319	246.976	111.464	22.656	1.00108.56	A16S
ATOM	27869	P	C	A1320	248.120	110.416	23.083	1.00 87.61	A16S
ATOM	27870	O1P	C	A1320	248.028	110.235	24.557	1.00 70.64	A16S
ATOM	27871	O2P	C	A1320	249.406	110.849	22.465	1.00 70.64	A16S
ATOM	27872	O5*	C	A1320	247.654	109.039	22.429	1.00 87.61	A16S
ATOM	27873	C5*	C	A1320	248.600	108.170	21.789	1.00 87.61	A16S
ATOM	27874	C4*	C	A1320	247.946	106.861	21.417	1.00 87.61	A16S
ATOM	27875	O4*	C	A1320	247.669	106.092	22.614	1.00 87.61	A16S
ATOM	27876	C1*	C	A1320	246.471	105.349	22.442	1.00 87.61	A16S
ATOM	27877	N1	C	A1320	245.488	105.830	23.432	1.00 70.64	A16S
ATOM	27878	C6	C	A1320	245.536	107.119	23.890	1.00 70.64	A16S
ATOM	27879	C2	C	A1320	244.489	104.948	23.892	1.00 70.64	A16S
ATOM	27880	O2	C	A1320	244.471	103.773	23.481	1.00 70.64	A16S
ATOM	27881	N3	C	A1320	243.573	105.402	24.772	1.00 70.64	A16S
ATOM	27882	C4	C	A1320	243.625	106.669	25.197	1.00 70.64	A16S
ATOM	27883	N4	C	A1320	242.685	107.077	26.052	1.00 70.64	A16S
ATOM	27884	C5	C	A1320	244.636	107.575	24.762	1.00 70.64	A16S
ATOM	27885	C2*	C	A1320	245.989	105.586	21.010	1.00 87.61	A16S
ATOM	27886	O2*	C	A1320	246.484	104.565	20.159	1.00 87.61	A16S
ATOM	27887	C3*	C	A1320	246.602	106.946	20.717	1.00 87.61	A16S
ATOM	27888	O3*	C	A1320	246.715	107.199	19.338	1.00 87.61	A16S
ATOM	27889	P	C	A1321	245.581	108.068	18.615	1.00 79.54	A16S
ATOM	27890	O1P	C	A1321	245.972	108.177	17.182	1.00 70.39	A16S
ATOM	27891	O2P	C	A1321	245.334	109.305	19.406	1.00 70.39	A16S
ATOM	27892	O5*	C	A1321	244.298	107.134	18.716	1.00 79.54	A16S
ATOM	27893	C5*	C	A1321	244.299	105.847	18.093	1.00 79.54	A16S
ATOM	27894	C4*	C	A1321	243.113	105.040	18.548	1.00 79.54	A16S
ATOM	27895	O4*	C	A1321	243.185	104.848	19.986	1.00 79.54	A16S
ATOM	27896	C1*	C	A1321	241.874	104.812	20.525	1.00 79.54	A16S
ATOM	27897	N1	C	A1321	241.733	105.909	21.507	1.00 70.39	A16S
ATOM	27898	C6	C	A1321	242.190	107.166	21.221	1.00 70.39	A16S
ATOM	27899	C2	C	A1321	241.104	105.649	22.739	1.00 70.39	A16S
ATOM	27900	O2	C	A1321	240.722	104.496	22.996	1.00 70.39	A16S
ATOM	27901	N3	C	A1321	240.935	106.660	23.618	1.00 70.39	A16S
ATOM	27902	C4	C	A1321	241.381	107.882	23.325	1.00 70.39	A16S
ATOM	27903	N4	C	A1321	241.204	108.846	24.234	1.00 70.39	A16S
ATOM	27904	C5	C	A1321	242.035	108.171	22.091	1.00 70.39	A16S
ATOM	27905	C2*	C	A1321	240.890	104.937	19.358	1.00 79.54	A16S
ATOM	27906	O2*	C	A1321	240.490	103.638	18.960	1.00 79.54	A16S
ATOM	27907	C3*	C	A1321	241.742	105.654	18.313	1.00 79.54	A16S
ATOM	27908	O3*	C	A1321	241.285	105.454	16.978	1.00 79.54	A16S
ATOM	27909	P	C	A1322	240.673	106.693	16.150	1.00 70.98	A16S
ATOM	27910	O1P	C	A1322	240.909	106.412	14.708	1.00 81.29	A16S
ATOM	27911	O2P	C	A1322	239.300	106.971	16.617	1.00 81.29	A16S
ATOM	27912	O5*	C	A1322	241.565	107.938	16.582	1.00 70.98	A16S
ATOM	27913	C5*	C	A1322	241.502	109.154	15.832	1.00 70.98	A16S
ATOM	27914	C4*	C	A1322	241.481	110.358	16.749	1.00 70.98	A16S
ATOM	27915	O4*	C	A1322	240.364	110.259	17.671	1.00 70.98	A16S
ATOM	27916	C1*	C	A1322	240.814	110.579	18.974	1.00 70.98	A16S
ATOM	27917	N1	C	A1322	240.002	109.861	19.971	1.00 81.29	A16S
ATOM	27918	C6	C	A1322	239.424	108.655	19.683	1.00 81.29	A16S
ATOM	27919	C2	C	A1322	239.832	110.443	21.233	1.00 81.29	A16S
ATOM	27920	O2	C	A1322	240.379	111.537	21.477	1.00 81.29	A16S
ATOM	27921	N3	C	A1322	239.087	109.801	22.153	1.00 81.29	A16S
ATOM	27922	C4	C	A1322	238.534	108.621	21.864	1.00 81.29	A16S
ATOM	27923	N4	C	A1322	237.823	108.019	22.816	1.00 81.29	A16S
ATOM	27924	C5	C	A1322	238.691	108.007	20.591	1.00 81.29	A16S
ATOM	27925	C2*	C	A1322	242.308	110.256	19.000	1.00 70.98	A16S
ATOM	27926	O2*	C	A1322	242.939	111.024	20.015	1.00 70.98	A16S
ATOM	27927	C3*	C	A1322	242.722	110.674	17.590	1.00 70.98	A16S
ATOM	27928	O3*	C	A1322	242.867	112.088	17.627	1.00 70.98	A16S
ATOM	27929	P	G	A1323	243.937	112.822	16.679	1.00 65.46	A16S
ATOM	27930	O1P	G	A1323	243.569	112.607	15.255	1.00 84.63	A16S
ATOM	27931	O2P	G	A1323	245.300	112.452	17.149	1.00 84.63	A16S
ATOM	27932	O5*	G	A1323	243.663	114.361	16.980	1.00 65.46	A16S
ATOM	27933	C5*	G	A1323	242.315	114.846	17.092	1.00 65.46	A16S
ATOM	27934	C4*	G	A1323	242.305	116.292	17.525	1.00 65.46	A16S
ATOM	27935	O4*	G	A1323	242.701	116.415	18.914	1.00 65.46	A16S
ATOM	27936	C1*	G	A1323	243.365	117.658	19.107	1.00 65.46	A16S
ATOM	27937	N9	G	A1323	244.702	117.404	19.652	1.00 84.63	A16S
ATOM	27938	C4	G	A1323	245.543	118.344	20.207	1.00 84.63	A16S
ATOM	27939	N3	G	A1323	245.286	119.663	20.331	1.00 84.63	A16S
ATOM	27940	C2	G	A1323	246.280	120.305	20.903	1.00 84.63	A16S
ATOM	27941	N2	G	A1323	246.191	121.619	21.084	1.00 84.63	A16S
ATOM	27942	N1	G	A1323	247.433	119.705	21.333	1.00 84.63	A16S
ATOM	27943	C6	G	A1323	247.720	118.348	21.222	1.00 84.63	A16S
ATOM	27944	O6	G	A1323	248.795	117.904	21.650	1.00 84.63	A16S

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ATOM	27945	C5	G	A1323	246.666	117.646	20.596	1.00	84.63	A16S
ATOM	27946	N7	G	A1323	246.543	116.297	20.285	1.00	84.63	A16S
ATOM	27947	C8	G	A1323	245.367	116.200	19.726	1.00	84.63	A16S
ATOM	27948	C2*	G	A1323	243.390	118.390	17.764	1.00	65.46	A16S
ATOM	27949	O2*	G	A1323	242.336	119.340	17.713	1.00	65.46	A16S
ATOM	27950	C3*	G	A1323	243.243	117.228	16.786	1.00	65.46	A16S
ATOM	27951	O3*	G	A1323	242.719	117.603	15.530	1.00	65.46	A16S
ATOM	27952	P	A	A1324	243.619	117.423	14.213	1.00	70.65	A16S
ATOM	27953	O1P	A	A1324	242.664	117.171	13.091	1.00	64.32	A16S
ATOM	27954	O2P	A	A1324	244.711	116.439	14.477	1.00	64.32	A16S
ATOM	27955	O5*	A	A1324	244.248	118.870	14.025	1.00	70.65	A16S
ATOM	27956	C5*	A	A1324	243.382	120.000	13.899	1.00	70.65	A16S
ATOM	27957	C4*	A	A1324	243.990	121.209	14.556	1.00	70.65	A16S
ATOM	27958	O4*	A	A1324	244.148	120.984	15.983	1.00	70.65	A16S
ATOM	27959	C1*	A	A1324	245.318	121.646	16.439	1.00	70.65	A16S
ATOM	27960	N9	A	A1324	246.257	120.635	16.929	1.00	64.32	A16S
ATOM	27961	C4	A	A1324	247.370	120.864	17.703	1.00	64.32	A16S
ATOM	27962	N3	A	A1324	247.823	122.048	18.157	1.00	64.32	A16S
ATOM	27963	C2	A	A1324	248.927	121.879	18.880	1.00	64.32	A16S
ATOM	27964	N1	A	A1324	249.578	120.747	19.177	1.00	64.32	A16S
ATOM	27965	C6	A	A1324	249.092	119.578	18.702	1.00	64.32	A16S
ATOM	27966	N6	A	A1324	249.730	118.447	18.998	1.00	64.32	A16S
ATOM	27967	C5	A	A1324	247.935	119.621	17.925	1.00	64.32	A16S
ATOM	27968	N7	A	A1324	247.202	118.627	17.297	1.00	64.32	A16S
ATOM	27969	C8	A	A1324	246.223	119.277	16.718	1.00	64.32	A16S
ATOM	27970	C2*	A	A1324	245.906	122.406	15.250	1.00	70.65	A16S
ATOM	27971	O2*	A	A1324	245.405	123.732	15.229	1.00	70.65	A16S
ATOM	27972	C3*	A	A1324	245.381	121.586	14.082	1.00	70.65	A16S
ATOM	27973	O3*	A	A1324	245.362	122.321	12.874	1.00	70.65	A16S
ATOM	27974	P	C	A1325	246.639	122.268	11.909	1.00	73.33	A16S
ATOM	27975	O1P	C	A1325	246.295	123.048	10.696	1.00	61.51	A16S
ATOM	27976	O2P	C	A1325	247.114	120.856	11.786	1.00	61.51	A16S
ATOM	27977	O5*	C	A1325	247.751	123.070	12.714	1.00	73.33	A16S
ATOM	27978	C5*	C	A1325	247.574	124.465	13.034	1.00	73.33	A16S
ATOM	27979	C4*	C	A1325	248.766	124.981	13.809	1.00	73.33	A16S
ATOM	27980	O4*	C	A1325	248.825	124.331	15.106	1.00	73.33	A16S
ATOM	27981	C1*	C	A1325	250.173	124.133	15.475	1.00	73.33	A16S
ATOM	27982	N1	C	A1325	250.406	122.699	15.636	1.00	61.51	A16S
ATOM	27983	C6	C	A1325	249.692	121.781	14.921	1.00	61.51	A16S
ATOM	27984	C2	C	A1325	251.385	122.284	16.536	1.00	61.51	A16S
ATOM	27985	O2	C	A1325	252.017	123.147	17.175	1.00	61.51	A16S
ATOM	27986	N3	C	A1325	251.625	120.961	16.690	1.00	61.51	A16S
ATOM	27987	C4	C	A1325	250.932	120.074	15.979	1.00	61.51	A16S
ATOM	27988	N4	C	A1325	251.220	118.782	16.144	1.00	61.51	A16S
ATOM	27989	C5	C	A1325	249.920	120.472	15.062	1.00	61.51	A16S
ATOM	27990	C2*	C	A1325	251.057	124.724	14.383	1.00	73.33	A16S
ATOM	27991	O2*	C	A1325	251.406	126.038	14.753	1.00	73.33	A16S
ATOM	27992	C3*	C	A1325	250.123	124.702	13.185	1.00	73.33	A16S
ATOM	27993	O3*	C	A1325	250.481	125.676	12.218	1.00	73.33	A16S
ATOM	27994	P	C	A1326	251.557	125.296	11.091	1.00	69.68	A16S
ATOM	27995	O1P	C	A1326	251.562	126.412	10.113	1.00	57.15	A16S
ATOM	27996	O2P	C	A1326	251.287	123.911	10.643	1.00	57.15	A16S
ATOM	27997	O5*	C	A1326	252.942	125.237	11.868	1.00	69.68	A16S
ATOM	27998	C5*	C	A1326	253.426	126.388	12.581	1.00	69.68	A16S
ATOM	27999	C4*	C	A1326	254.742	126.079	13.246	1.00	69.68	A16S
ATOM	28000	O4*	C	A1326	254.549	125.153	14.343	1.00	69.68	A16S
ATOM	28001	C1*	C	A1326	255.671	124.305	14.446	1.00	69.68	A16S
ATOM	28002	N1	C	A1326	255.218	122.905	14.397	1.00	57.15	A16S
ATOM	28003	C6	C	A1326	253.987	122.575	13.896	1.00	57.15	A16S
ATOM	28004	C2	C	A1326	256.075	121.900	14.889	1.00	57.15	A16S
ATOM	28005	O2	C	A1326	257.185	122.222	15.333	1.00	57.15	A16S
ATOM	28006	N3	C	A1326	255.667	120.607	14.872	1.00	57.15	A16S
ATOM	28007	C4	C	A1326	254.457	120.299	14.403	1.00	57.15	A16S
ATOM	28008	N4	C	A1326	254.084	119.020	14.443	1.00	57.15	A16S
ATOM	28009	C5	C	A1326	253.569	121.298	13.880	1.00	57.15	A16S
ATOM	28010	C2*	C	A1326	256.666	124.701	13.354	1.00	69.68	A16S
ATOM	28011	O2*	C	A1326	257.584	125.594	13.940	1.00	69.68	A16S
ATOM	28012	C3*	C	A1326	255.772	125.418	12.351	1.00	69.68	A16S
ATOM	28013	O3*	C	A1326	256.464	126.420	11.613	1.00	69.68	A16S
ATOM	28014	P	C	A1327	257.023	126.086	10.145	1.00	72.79	A16S
ATOM	28015	O1P	C	A1327	257.546	127.368	9.592	1.00	57.86	A16S
ATOM	28016	O2P	C	A1327	255.992	125.330	9.395	1.00	57.86	A16S
ATOM	28017	O5*	C	A1327	258.247	125.106	10.428	1.00	72.79	A16S
ATOM	28018	C5*	C	A1327	259.444	125.617	11.031	1.00	72.79	A16S
ATOM	28019	C4*	C	A1327	260.407	124.503	11.351	1.00	72.79	A16S
ATOM	28020	O4*	C	A1327	259.890	123.670	12.416	1.00	72.79	A16S
ATOM	28021	C1*	C	A1327	260.435	122.369	12.296	1.00	72.79	A16S

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ATOM	28022	N1	C	A1327	259.351	121.372	12.296	1.00	57.86	A16S
ATOM	28023	C6	C	A1327	258.084	121.686	11.878	1.00	57.86	A16S
ATOM	28024	C2	C	A1327	259.657	120.063	12.711	1.00	57.86	A16S
ATOM	28025	O2	C	A1327	260.797	119.820	13.143	1.00	57.86	A16S
ATOM	28026	N3	C	A1327	258.703	119.104	12.641	1.00	57.86	A16S
ATOM	28027	C4	C	A1327	257.479	119.412	12.202	1.00	57.86	A16S
ATOM	28028	N4	C	A1327	256.585	118.428	12.122	1.00	57.86	A16S
ATOM	28029	C5	C	A1327	257.125	120.746	11.817	1.00	57.86	A16S
ATOM	28030	C2*	C	A1327	261.260	122.316	11.009	1.00	72.79	A16S
ATOM	28031	O2*	C	A1327	262.635	122.415	11.327	1.00	72.79	A16S
ATOM	28032	C3*	C	A1327	260.722	123.520	10.242	1.00	72.79	A16S
ATOM	28033	O3*	C	A1327	261.670	124.039	9.325	1.00	72.79	A16S
ATOM	28034	P	C	A1328	261.806	123.368	7.876	1.00	60.89	A16S
ATOM	28035	O1P	C	A1328	262.801	124.162	7.113	1.00	72.39	A16S
ATOM	28036	O2P	C	A1328	260.440	123.176	7.319	1.00	72.39	A16S
ATOM	28037	O5*	C	A1328	262.445	121.942	8.197	1.00	60.89	A16S
ATOM	28038	C5*	C	A1328	263.796	121.856	8.664	1.00	60.89	A16S
ATOM	28039	C4*	C	A1328	264.244	120.420	8.760	1.00	60.89	A16S
ATOM	28040	O4*	C	A1328	263.568	119.748	9.849	1.00	60.89	A16S
ATOM	28041	C1*	C	A1328	263.461	118.364	9.551	1.00	60.89	A16S
ATOM	28042	N1	C	A1328	262.045	117.978	9.576	1.00	72.39	A16S
ATOM	28043	C6	C	A1328	261.057	118.890	9.314	1.00	72.39	A16S
ATOM	28044	C2	C	A1328	261.723	116.641	9.848	1.00	72.39	A16S
ATOM	28045	O2	C	A1328	262.645	115.846	10.113	1.00	72.39	A16S
ATOM	28046	N3	C	A1328	260.423	116.255	9.814	1.00	72.39	A16S
ATOM	28047	C4	C	A1328	259.469	117.150	9.532	1.00	72.39	A16S
ATOM	28048	N4	C	A1328	258.203	116.730	9.484	1.00	72.39	A16S
ATOM	28049	C5	C	A1328	259.770	118.522	9.280	1.00	72.39	A16S
ATOM	28050	C2*	C	A1328	264.053	118.130	8.161	1.00	60.89	A16S
ATOM	28051	O2*	C	A1328	265.356	117.609	8.296	1.00	60.89	A16S
ATOM	28052	C3*	C	A1328	263.994	119.531	7.558	1.00	60.89	A16S
ATOM	28053	O3*	C	A1328	264.959	119.725	6.541	1.00	60.89	A16S
ATOM	28054	P	A	A1329	264.553	119.452	5.010	1.00	59.71	A16S
ATOM	28055	O1P	A	A1329	265.758	119.742	4.183	1.00	64.74	A16S
ATOM	28056	O2P	A	A1329	263.276	120.171	4.712	1.00	64.74	A16S
ATOM	28057	O5*	A	A1329	264.265	117.881	4.998	1.00	59.71	A16S
ATOM	28058	C5*	A	A1329	265.337	116.952	5.201	1.00	59.71	A16S
ATOM	28059	C4*	A	A1329	264.814	115.545	5.359	1.00	59.71	A16S
ATOM	28060	O4*	A	A1329	263.998	115.455	6.558	1.00	59.71	A16S
ATOM	28061	C1*	A	A1329	263.025	114.429	6.395	1.00	59.71	A16S
ATOM	28062	N9	A	A1329	261.680	115.012	6.460	1.00	64.74	A16S
ATOM	28063	C4	A	A1329	260.507	114.289	6.539	1.00	64.74	A16S
ATOM	28064	N3	A	A1329	260.374	112.951	6.636	1.00	64.74	A16S
ATOM	28065	C2	A	A1329	259.088	112.606	6.643	1.00	64.74	A16S
ATOM	28066	N1	A	A1329	258.003	113.383	6.568	1.00	64.74	A16S
ATOM	28067	C6	A	A1329	258.171	114.722	6.473	1.00	64.74	A16S
ATOM	28068	N6	A	A1329	257.094	115.501	6.389	1.00	64.74	A16S
ATOM	28069	C5	A	A1329	259.485	115.219	6.462	1.00	64.74	A16S
ATOM	28070	N7	A	A1329	259.996	116.510	6.378	1.00	64.74	A16S
ATOM	28071	C8	A	A1329	261.299	116.336	6.393	1.00	64.74	A16S
ATOM	28072	C2*	A	A1329	263.228	113.828	5.005	1.00	59.71	A16S
ATOM	28073	O2*	A	A1329	263.991	112.644	5.114	1.00	59.71	A16S
ATOM	28074	C3*	A	A1329	263.914	114.977	4.272	1.00	59.71	A16S
ATOM	28075	O3*	A	A1329	264.573	114.570	3.070	1.00	59.71	A16S
ATOM	28076	P	U	A1330	263.794	114.722	1.663	1.00	70.92	A16S
ATOM	28077	O1P	U	A1330	264.664	114.324	0.516	1.00	60.26	A16S
ATOM	28078	O2P	U	A1330	263.189	116.082	1.674	1.00	60.26	A16S
ATOM	28079	O5*	U	A1330	262.630	113.637	1.780	1.00	70.92	A16S
ATOM	28080	C5*	U	A1330	262.928	112.285	2.188	1.00	70.92	A16S
ATOM	28081	C4*	U	A1330	261.659	111.477	2.359	1.00	70.92	A16S
ATOM	28082	O4*	U	A1330	260.837	112.050	3.406	1.00	70.92	A16S
ATOM	28083	C1*	U	A1330	259.460	111.877	3.090	1.00	70.92	A16S
ATOM	28084	N1	U	A1330	258.822	113.205	3.033	1.00	60.26	A16S
ATOM	28085	C6	U	A1330	259.546	114.333	2.718	1.00	60.26	A16S
ATOM	28086	C2	U	A1330	257.467	113.295	3.335	1.00	60.26	A16S
ATOM	28087	O2	U	A1330	256.767	112.321	3.563	1.00	60.26	A16S
ATOM	28088	N3	U	A1330	256.962	114.572	3.354	1.00	60.26	A16S
ATOM	28089	C4	U	A1330	257.649	115.740	3.100	1.00	60.26	A16S
ATOM	28090	O4	U	A1330	257.112	116.817	3.344	1.00	60.26	A16S
ATOM	28091	C5	U	A1330	259.019	115.559	2.740	1.00	60.26	A16S
ATOM	28092	C2*	U	A1330	259.383	111.088	1.786	1.00	70.92	A16S
ATOM	28093	O2*	U	A1330	259.213	109.711	2.092	1.00	70.92	A16S
ATOM	28094	C3*	U	A1330	260.734	111.419	1.159	1.00	70.92	A16S
ATOM	28095	O3*	U	A1330	261.159	110.458	0.220	1.00	70.92	A16S
ATOM	28096	P	G	A1331	261.230	110.862	-1.325	1.00	64.38	A16S
ATOM	28097	O1P	G	A1331	261.215	109.572	-2.051	1.00	69.46	A16S
ATOM	28098	O2P	G	A1331	262.329	111.832	-1.546	1.00	69.46	A16S

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ATOM	28099	O5*	G	A1331	259.879	111.650	-1.583	1.00	64.38	A16S
ATOM	28100	C5*	G	A1331	258.629	111.001	-1.399	1.00	64.38	A16S
ATOM	28101	C4*	G	A1331	257.507	111.908	-1.814	1.00	64.38	A16S
ATOM	28102	O4*	G	A1331	257.448	113.049	-0.913	1.00	64.38	A16S
ATOM	28103	C1*	G	A1331	257.239	114.205	-1.675	1.00	64.38	A16S
ATOM	28104	N9	G	A1331	257.686	115.377	-0.934	1.00	69.46	A16S
ATOM	28105	C4	G	A1331	256.864	116.234	-0.243	1.00	69.46	A16S
ATOM	28106	N3	G	A1331	255.537	116.063	-0.029	1.00	69.46	A16S
ATOM	28107	C2	G	A1331	255.005	117.090	0.619	1.00	69.46	A16S
ATOM	28108	N2	G	A1331	253.701	117.071	0.949	1.00	69.46	A16S
ATOM	28109	N1	G	A1331	255.715	118.208	0.998	1.00	69.46	A16S
ATOM	28110	C6	G	A1331	257.079	118.404	0.780	1.00	69.46	A16S
ATOM	28111	O6	G	A1331	257.616	119.460	1.131	1.00	69.46	A16S
ATOM	28112	C5	G	A1331	257.668	117.292	0.125	1.00	69.46	A16S
ATOM	28113	N7	G	A1331	258.986	117.061	-0.246	1.00	69.46	A16S
ATOM	28114	C8	G	A1331	258.953	115.903	-0.852	1.00	69.46	A16S
ATOM	28115	C2*	G	A1331	257.926	113.941	-3.011	1.00	64.38	A16S
ATOM	28116	O2*	G	A1331	257.387	114.771	-4.019	1.00	64.38	A16S
ATOM	28117	C3*	G	A1331	257.585	112.471	-3.232	1.00	64.38	A16S
ATOM	28118	O3*	G	A1331	256.314	112.377	-3.851	1.00	64.38	A16S
ATOM	28119	P	A	A1332	256.195	111.806	-5.349	1.00	69.15	A16S
ATOM	28120	O1P	A	A1332	257.359	110.914	-5.626	1.00	45.75	A16S
ATOM	28121	O2P	A	A1332	255.912	112.944	-6.279	1.00	45.75	A16S
ATOM	28122	O5*	A	A1332	254.898	110.882	-5.255	1.00	69.15	A16S
ATOM	28123	C5*	A	A1332	254.951	109.565	-4.649	1.00	69.15	A16S
ATOM	28124	C4*	A	A1332	253.549	109.036	-4.440	1.00	69.15	A16S
ATOM	28125	O4*	A	A1332	252.969	109.668	-3.277	1.00	69.15	A16S
ATOM	28126	C1*	A	A1332	251.621	110.010	-3.531	1.00	69.15	A16S
ATOM	28127	N9	A	A1332	251.509	111.469	-3.395	1.00	45.75	A16S
ATOM	28128	C4	A	A1332	250.378	112.245	-3.481	1.00	45.75	A16S
ATOM	28129	N3	A	A1332	249.125	111.835	-3.722	1.00	45.75	A16S
ATOM	28130	C2	A	A1332	248.294	112.870	-3.728	1.00	45.75	A16S
ATOM	28131	N1	A	A1332	248.555	114.172	-3.543	1.00	45.75	A16S
ATOM	28132	C6	A	A1332	249.826	114.547	-3.314	1.00	45.75	A16S
ATOM	28133	N6	A	A1332	250.087	115.841	-3.150	1.00	45.75	A16S
ATOM	28134	C5	A	A1332	250.797	113.548	-3.271	1.00	45.75	A16S
ATOM	28135	N7	A	A1332	252.160	113.595	-3.057	1.00	45.75	A16S
ATOM	28136	C8	A	A1332	252.536	112.344	-3.143	1.00	45.75	A16S
ATOM	28137	C2*	A	A1332	251.246	109.429	-4.901	1.00	69.15	A16S
ATOM	28138	O2*	A	A1332	250.666	108.146	-4.755	1.00	69.15	A16S
ATOM	28139	C3*	A	A1332	252.601	109.346	-5.583	1.00	69.15	A16S
ATOM	28140	O3*	A	A1332	252.651	108.334	-6.576	1.00	69.15	A16S
ATOM	28141	P	A	A1333	252.581	108.745	-8.130	1.00	67.22	A16S
ATOM	28142	O1P	A	A1333	252.957	107.536	-8.918	1.00	45.24	A16S
ATOM	28143	O2P	A	A1333	253.347	110.008	-8.317	1.00	45.24	A16S
ATOM	28144	O5*	A	A1333	251.035	109.072	-8.365	1.00	67.22	A16S
ATOM	28145	C5*	A	A1333	250.022	108.053	-8.177	1.00	67.22	A16S
ATOM	28146	C4*	A	A1333	248.643	108.674	-8.073	1.00	67.22	A16S
ATOM	28147	O4*	A	A1333	248.577	109.519	-6.895	1.00	67.22	A16S
ATOM	28148	C1*	A	A1333	247.725	110.623	-7.148	1.00	67.22	A16S
ATOM	28149	N9	A	A1333	248.491	111.859	-6.997	1.00	45.24	A16S
ATOM	28150	C4	A	A1333	247.951	113.118	-6.907	1.00	45.24	A16S
ATOM	28151	N3	A	A1333	246.650	113.450	-6.941	1.00	45.24	A16S
ATOM	28152	C2	A	A1333	246.496	114.762	-6.809	1.00	45.24	A16S
ATOM	28153	N1	A	A1333	247.424	115.714	-6.659	1.00	45.24	A16S
ATOM	28154	C6	A	A1333	248.725	115.348	-6.633	1.00	45.24	A16S
ATOM	28155	N6	A	A1333	249.653	116.300	-6.488	1.00	45.24	A16S
ATOM	28156	C5	A	A1333	249.021	113.977	-6.762	1.00	45.24	A16S
ATOM	28157	N7	A	A1333	250.217	113.275	-6.770	1.00	45.24	A16S
ATOM	28158	C8	A	A1333	249.848	112.027	-6.914	1.00	45.24	A16S
ATOM	28159	C2*	A	A1333	247.164	110.468	-8.558	1.00	67.22	A16S
ATOM	28160	O2*	A	A1333	245.908	109.831	-8.474	1.00	67.22	A16S
ATOM	28161	C3*	A	A1333	248.214	109.586	-9.212	1.00	67.22	A16S
ATOM	28162	O3*	A	A1333	247.659	108.871	-10.299	1.00	67.22	A16S
ATOM	28163	P	G	A1334	247.869	109.421	-11.791	1.00	50.87	A16S
ATOM	28164	O1P	G	A1334	246.935	108.657	-12.660	1.00	53.73	A16S
ATOM	28165	O2P	G	A1334	249.342	109.405	-12.083	1.00	53.73	A16S
ATOM	28166	O5*	G	A1334	247.390	110.946	-11.747	1.00	50.87	A16S
ATOM	28167	C5*	G	A1334	245.999	111.292	-11.579	1.00	50.87	A16S
ATOM	28168	C4*	G	A1334	245.852	112.767	-11.269	1.00	50.87	A16S
ATOM	28169	O4*	G	A1334	246.636	113.076	-10.086	1.00	50.87	A16S
ATOM	28170	C1*	G	A1334	247.217	114.361	-10.219	1.00	50.87	A16S
ATOM	28171	N9	G	A1334	248.670	114.228	-10.136	1.00	53.73	A16S
ATOM	28172	C4	G	A1334	249.575	115.259	-10.065	1.00	53.73	A16S
ATOM	28173	N3	G	A1334	249.276	116.571	-10.026	1.00	53.73	A16S
ATOM	28174	C2	G	A1334	250.359	117.320	-9.965	1.00	53.73	A16S
ATOM	28175	N2	G	A1334	250.245	118.644	-9.903	1.00	53.73	A16S

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ATOM	28176	N1	G	A1334	251.632	116.823	-9.956	1.00	53.73	A16S
ATOM	28177	C6	G	A1334	251.962	115.474	-10.003	1.00	53.73	A16S
ATOM	28178	O6	G	A1334	253.149	115.126	-10.002	1.00	53.73	A16S
ATOM	28179	C5	G	A1334	250.812	114.659	-10.053	1.00	53.73	A16S
ATOM	28180	N7	G	A1334	250.694	113.277	-10.100	1.00	53.73	A16S
ATOM	28181	C8	G	A1334	249.407	113.067	-10.141	1.00	53.73	A16S
ATOM	28182	C2*	G	A1334	246.756	114.959	-11.555	1.00	50.87	A16S
ATOM	28183	O2*	G	A1334	245.690	115.860	-11.345	1.00	50.87	A16S
ATOM	28184	C3*	G	A1334	246.360	113.717	-12.346	1.00	50.87	A16S
ATOM	28185	O3*	G	A1334	245.338	114.022	-13.289	1.00	50.87	A16S
ATOM	28186	P	C	A1335	245.552	113.670	-14.837	1.00	54.66	A16S
ATOM	28187	O1P	C	A1335	244.275	113.949	-15.541	1.00	65.27	A16S
ATOM	28188	O2P	C	A1335	246.171	112.310	-14.915	1.00	65.27	A16S
ATOM	28189	O5*	C	A1335	246.601	114.746	-15.346	1.00	54.66	A16S
ATOM	28190	C5*	C	A1335	246.284	116.136	-15.323	1.00	54.66	A16S
ATOM	28191	C4*	C	A1335	247.124	116.874	-16.331	1.00	54.66	A16S
ATOM	28192	O4*	C	A1335	248.512	116.733	-15.996	1.00	54.66	A16S
ATOM	28193	C1*	C	A1335	249.283	116.828	-17.171	1.00	54.66	A16S
ATOM	28194	N1	C	A1335	250.413	115.891	-17.043	1.00	65.27	A16S
ATOM	28195	C6	C	A1335	250.185	114.578	-16.752	1.00	65.27	A16S
ATOM	28196	C2	C	A1335	251.736	116.369	-17.182	1.00	65.27	A16S
ATOM	28197	O2	C	A1335	251.932	117.567	-17.477	1.00	65.27	A16S
ATOM	28198	N3	C	A1335	252.761	115.512	-16.988	1.00	65.27	A16S
ATOM	28199	C4	C	A1335	252.515	114.234	-16.682	1.00	65.27	A16S
ATOM	28200	N4	C	A1335	253.550	113.418	-16.487	1.00	65.27	A16S
ATOM	28201	C5	C	A1335	251.194	113.729	-16.560	1.00	65.27	A16S
ATOM	28202	C2*	C	A1335	248.357	116.710	-18.395	1.00	54.66	A16S
ATOM	28203	O2*	C	A1335	248.382	117.907	-19.152	1.00	54.66	A16S
ATOM	28204	C3*	C	A1335	246.980	116.426	-17.777	1.00	54.66	A16S
ATOM	28205	O3*	C	A1335	246.025	117.362	-18.280	1.00	54.66	A16S
ATOM	28206	P	C	A1336	245.252	117.099	-19.661	1.00	46.02	A16S
ATOM	28207	O1P	C	A1336	245.369	115.642	-19.977	1.00	69.34	A16S
ATOM	28208	O2P	C	A1336	245.698	118.116	-20.662	1.00	69.34	A16S
ATOM	28209	O5*	C	A1336	243.740	117.420	-19.271	1.00	46.02	A16S
ATOM	28210	C5*	C	A1336	243.051	116.639	-18.260	1.00	46.02	A16S
ATOM	28211	C4*	C	A1336	241.958	117.461	-17.601	1.00	46.02	A16S
ATOM	28212	O4*	C	A1336	242.496	118.299	-16.546	1.00	46.02	A16S
ATOM	28213	C1*	C	A1336	242.138	119.646	-16.778	1.00	46.02	A16S
ATOM	28214	N1	C	A1336	243.248	120.507	-16.331	1.00	69.34	A16S
ATOM	28215	C6	C	A1336	244.534	120.047	-16.343	1.00	69.34	A16S
ATOM	28216	C2	C	A1336	242.971	121.811	-15.895	1.00	69.34	A16S
ATOM	28217	O2	C	A1336	241.793	122.209	-15.866	1.00	69.34	A16S
ATOM	28218	N3	C	A1336	243.994	122.604	-15.517	1.00	69.34	A16S
ATOM	28219	C4	C	A1336	245.247	122.145	-15.556	1.00	69.34	A16S
ATOM	28220	N4	C	A1336	246.231	122.975	-15.205	1.00	69.34	A16S
ATOM	28221	C5	C	A1336	245.550	120.822	-15.965	1.00	69.34	A16S
ATOM	28222	C2*	C	A1336	241.818	119.743	-18.270	1.00	46.02	A16S
ATOM	28223	O2*	C	A1336	240.941	120.810	-18.546	1.00	46.02	A16S
ATOM	28224	C3*	C	A1336	241.183	118.383	-18.529	1.00	46.02	A16S
ATOM	28225	O3*	C	A1336	239.834	118.405	-18.102	1.00	46.02	A16S
ATOM	28226	P	G	A1337	238.652	118.171	-19.168	1.00	48.91	A16S
ATOM	28227	O1P	G	A1337	239.256	118.019	-20.535	1.00	50.36	A16S
ATOM	28228	O2P	G	A1337	237.640	119.247	-18.937	1.00	50.36	A16S
ATOM	28229	O5*	G	A1337	238.016	116.778	-18.708	1.00	48.91	A16S
ATOM	28230	C5*	G	A1337	238.429	115.529	-19.302	1.00	48.91	A16S
ATOM	28231	C4*	G	A1337	238.200	114.406	-18.330	1.00	48.91	A16S
ATOM	28232	O4*	G	A1337	239.104	114.602	-17.221	1.00	48.91	A16S
ATOM	28233	C1*	G	A1337	238.395	114.597	-16.007	1.00	48.91	A16S
ATOM	28234	N9	G	A1337	238.478	115.962	-15.490	1.00	50.36	A16S
ATOM	28235	C4	G	A1337	239.577	116.539	-14.898	1.00	50.36	A16S
ATOM	28236	N3	G	A1337	240.757	115.932	-14.655	1.00	50.36	A16S
ATOM	28237	C2	G	A1337	241.634	116.757	-14.110	1.00	50.36	A16S
ATOM	28238	N2	G	A1337	242.867	116.316	-13.819	1.00	50.36	A16S
ATOM	28239	N1	G	A1337	241.367	118.070	-13.815	1.00	50.36	A16S
ATOM	28240	C6	G	A1337	240.154	118.707	-14.045	1.00	50.36	A16S
ATOM	28241	O6	G	A1337	240.008	119.895	-13.730	1.00	50.36	A16S
ATOM	28242	C5	G	A1337	239.213	117.838	-14.641	1.00	50.36	A16S
ATOM	28243	N7	G	A1337	237.909	118.072	-15.042	1.00	50.36	A16S
ATOM	28244	C8	G	A1337	237.511	116.933	-15.532	1.00	50.36	A16S
ATOM	28245	C2*	G	A1337	236.995	114.036	-16.296	1.00	48.91	A16S
ATOM	28246	O2*	G	A1337	236.978	112.646	-16.034	1.00	48.91	A16S
ATOM	28247	C3*	G	A1337	236.794	114.428	-17.763	1.00	48.91	A16S
ATOM	28248	O3*	G	A1337	235.972	113.517	-18.497	1.00	48.91	A16S
ATOM	28249	P	G	A1338	235.282	113.973	-19.885	1.00	49.61	A16S
ATOM	28250	O1P	G	A1338	234.332	115.101	-19.646	1.00	61.74	A16S
ATOM	28251	O2P	G	A1338	236.341	114.120	-20.916	1.00	61.74	A16S
ATOM	28252	O5*	G	A1338	234.421	112.688	-20.273	1.00	49.61	A16S

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ATOM	28253	C5*	G	A1338	234.918	111.713	-21.218	1.00	49.61	A16S
ATOM	28254	C4*	G	A1338	234.071	110.454	-21.193	1.00	49.61	A16S
ATOM	28255	O4*	G	A1338	234.415	109.637	-20.050	1.00	49.61	A16S
ATOM	28256	C1*	G	A1338	233.257	108.997	-19.554	1.00	49.61	A16S
ATOM	28257	N9	G	A1338	233.094	109.382	-18.152	1.00	61.74	A16S
ATOM	28258	C4	G	A1338	232.419	108.680	-17.183	1.00	61.74	A16S
ATOM	28259	N3	G	A1338	231.729	107.538	-17.368	1.00	61.74	A16S
ATOM	28260	C2	G	A1338	231.217	107.079	-16.238	1.00	61.74	A16S
ATOM	28261	N2	G	A1338	230.485	105.963	-16.242	1.00	61.74	A16S
ATOM	28262	N1	G	A1338	231.381	107.681	-15.018	1.00	61.74	A16S
ATOM	28263	C6	G	A1338	232.098	108.851	-14.797	1.00	61.74	A16S
ATOM	28264	O6	G	A1338	232.217	109.291	-13.641	1.00	61.74	A16S
ATOM	28265	C5	G	A1338	232.631	109.375	-16.011	1.00	61.74	A16S
ATOM	28266	N7	G	A1338	233.378	110.520	-16.247	1.00	61.74	A16S
ATOM	28267	C8	G	A1338	233.622	110.487	-17.528	1.00	61.74	A16S
ATOM	28268	C2*	G	A1338	232.090	109.353	-20.477	1.00	49.61	A16S
ATOM	28269	O2*	G	A1338	231.938	108.310	-21.421	1.00	49.61	A16S
ATOM	28270	C3*	G	A1338	232.571	110.661	-21.099	1.00	49.61	A16S
ATOM	28271	O3*	G	A1338	232.016	110.923	-22.382	1.00	49.61	A16S
ATOM	28272	P	A	A1339	230.902	112.078	-22.548	1.00	45.37	A16S
ATOM	28273	O1P	A	A1339	230.784	112.438	-24.003	1.00	55.08	A16S
ATOM	28274	O2P	A	A1339	231.204	113.148	-21.555	1.00	55.08	A16S
ATOM	28275	O5*	A	A1339	229.557	111.329	-22.123	1.00	45.37	A16S
ATOM	28276	C5*	A	A1339	229.067	110.203	-22.888	1.00	45.37	A16S
ATOM	28277	C4*	A	A1339	228.103	109.388	-22.067	1.00	45.37	A16S
ATOM	28278	O4*	A	A1339	228.817	108.791	-20.955	1.00	45.37	A16S
ATOM	28279	C1*	A	A1339	227.973	108.750	-19.815	1.00	45.37	A16S
ATOM	28280	N9	A	A1339	228.567	109.552	-18.746	1.00	55.08	A16S
ATOM	28281	C4	A	A1339	228.484	109.301	-17.399	1.00	55.08	A16S
ATOM	28282	N3	A	A1339	227.894	108.258	-16.799	1.00	55.08	A16S
ATOM	28283	C2	A	A1339	227.986	108.363	-15.478	1.00	55.08	A16S
ATOM	28284	N1	A	A1339	228.554	109.314	-14.748	1.00	55.08	A16S
ATOM	28285	C6	A	A1339	229.138	110.347	-15.384	1.00	55.08	A16S
ATOM	28286	N6	A	A1339	229.710	111.304	-14.655	1.00	55.08	A16S
ATOM	28287	C5	A	A1339	229.111	110.354	-16.781	1.00	55.08	A16S
ATOM	28288	N7	A	A1339	229.607	111.247	-17.716	1.00	55.08	A16S
ATOM	28289	C8	A	A1339	229.268	110.721	-18.863	1.00	55.08	A16S
ATOM	28290	C2*	A	A1339	226.619	109.341	-20.211	1.00	45.37	A16S
ATOM	28291	O2*	A	A1339	225.686	108.307	-20.453	1.00	45.37	A16S
ATOM	28292	C3*	A	A1339	226.994	110.191	-21.417	1.00	45.37	A16S
ATOM	28293	O3*	A	A1339	225.912	110.451	-22.286	1.00	45.37	A16S
ATOM	28294	P	A	A1340	225.376	111.962	-22.447	1.00	51.07	A16S
ATOM	28295	O1P	A	A1340	224.160	111.926	-23.304	1.00	65.31	A16S
ATOM	28296	O2P	A	A1340	226.530	112.820	-22.853	1.00	65.31	A16S
ATOM	28297	O5*	A	A1340	224.912	112.367	-20.972	1.00	51.07	A16S
ATOM	28298	C5*	A	A1340	223.904	111.599	-20.294	1.00	51.07	A16S
ATOM	28299	C4*	A	A1340	223.947	111.832	-18.799	1.00	51.07	A16S
ATOM	28300	O4*	A	A1340	225.260	111.478	-18.285	1.00	51.07	A16S
ATOM	28301	C1*	A	A1340	225.585	112.313	-17.184	1.00	51.07	A16S
ATOM	28302	N9	A	A1340	226.678	113.204	-17.588	1.00	65.31	A16S
ATOM	28303	C4	A	A1340	227.486	113.941	-16.752	1.00	65.31	A16S
ATOM	28304	N3	A	A1340	227.494	113.932	-15.408	1.00	65.31	A16S
ATOM	28305	C2	A	A1340	228.386	114.802	-14.942	1.00	65.31	A16S
ATOM	28306	N1	A	A1340	229.204	115.622	-15.615	1.00	65.31	A16S
ATOM	28307	C6	A	A1340	229.165	115.611	-16.963	1.00	65.31	A16S
ATOM	28308	N6	A	A1340	229.966	116.440	-17.632	1.00	65.31	A16S
ATOM	28309	C5	A	A1340	228.273	114.725	-17.581	1.00	65.31	A16S
ATOM	28310	N7	A	A1340	228.003	114.457	-18.915	1.00	65.31	A16S
ATOM	28311	C8	A	A1340	227.065	113.541	-18.867	1.00	65.31	A16S
ATOM	28312	C2*	A	A1340	224.347	113.167	-16.898	1.00	51.07	A16S
ATOM	28313	O2*	A	A1340	223.507	112.534	-15.945	1.00	51.07	A16S
ATOM	28314	C3*	A	A1340	223.705	113.241	-18.277	1.00	51.07	A16S
ATOM	28315	O3*	A	A1340	222.327	113.596	-18.184	1.00	51.07	A16S
ATOM	28316	P	U	A1341	221.888	115.143	-18.343	1.00	47.63	A16S
ATOM	28317	O1P	U	A1341	220.415	115.177	-18.173	1.00	63.28	A16S
ATOM	28318	O2P	U	A1341	222.500	115.722	-19.570	1.00	63.28	A16S
ATOM	28319	O5*	U	A1341	222.527	115.861	-17.075	1.00	47.63	A16S
ATOM	28320	C5*	U	A1341	222.170	115.442	-15.746	1.00	47.63	A16S
ATOM	28321	C4*	U	A1341	223.005	116.168	-14.714	1.00	47.63	A16S
ATOM	28322	O4*	U	A1341	224.411	115.912	-14.967	1.00	47.63	A16S
ATOM	28323	C1*	U	A1341	225.169	117.062	-14.635	1.00	47.63	A16S
ATOM	28324	N1	U	A1341	225.850	117.551	-15.844	1.00	63.28	A16S
ATOM	28325	C6	U	A1341	225.330	117.338	-17.099	1.00	63.28	A16S
ATOM	28326	C2	U	A1341	227.042	118.236	-15.678	1.00	63.28	A16S
ATOM	28327	O2	U	A1341	227.539	118.466	-14.586	1.00	63.28	A16S
ATOM	28328	N3	U	A1341	227.635	118.647	-16.838	1.00	63.28	A16S
ATOM	28329	C4	U	A1341	227.176	118.455	-18.111	1.00	63.28	A16S

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ATOM	28330	O4	U	A1341	227.842	118.875	-19.052	1.00	63.28	A16S
ATOM	28331	C5	U	A1341	225.936	117.754	-18.205	1.00	63.28	A16S
ATOM	28332	C2*	U	A1341	224.208	118.098	-14.054	1.00	47.63	A16S
ATOM	28333	O2*	U	A1341	224.153	117.952	-12.648	1.00	47.63	A16S
ATOM	28334	C3*	U	A1341	222.892	117.685	-14.682	1.00	47.63	A16S
ATOM	28335	O3*	U	A1341	221.821	118.138	-13.875	1.00	47.63	A16S
ATOM	28336	P	C	A1342	221.311	119.653	-14.021	1.00	49.84	A16S
ATOM	28337	O1P	C	A1342	219.940	119.680	-13.444	1.00	65.49	A16S
ATOM	28338	O2P	C	A1342	221.531	120.131	-15.415	1.00	65.49	A16S
ATOM	28339	O5*	C	A1342	222.281	120.490	-13.071	1.00	49.84	A16S
ATOM	28340	C5*	C	A1342	222.253	120.321	-11.630	1.00	49.84	A16S
ATOM	28341	C4*	C	A1342	223.158	121.335	-10.953	1.00	49.84	A16S
ATOM	28342	O4*	C	A1342	224.539	121.069	-11.327	1.00	49.84	A16S
ATOM	28343	C1*	C	A1342	225.251	122.292	-11.414	1.00	49.84	A16S
ATOM	28344	N1	C	A1342	225.725	122.501	-12.794	1.00	65.49	A16S
ATOM	28345	C6	C	A1342	225.105	121.923	-13.865	1.00	65.49	A16S
ATOM	28346	C2	C	A1342	226.819	123.336	-12.985	1.00	65.49	A16S
ATOM	28347	O2	C	A1342	227.374	123.824	-11.988	1.00	65.49	A16S
ATOM	28348	N3	C	A1342	227.248	123.595	-14.240	1.00	65.49	A16S
ATOM	28349	C4	C	A1342	226.629	123.043	-15.280	1.00	65.49	A16S
ATOM	28350	N4	C	A1342	227.077	123.339	-16.501	1.00	65.49	A16S
ATOM	28351	C5	C	A1342	225.521	122.165	-15.114	1.00	65.49	A16S
ATOM	28352	C2*	C	A1342	224.306	123.420	-11.020	1.00	49.84	A16S
ATOM	28353	O2*	C	A1342	224.540	123.729	-9.664	1.00	49.84	A16S
ATOM	28354	C3*	C	A1342	222.942	122.802	-11.319	1.00	49.84	A16S
ATOM	28355	O3*	C	A1342	221.881	123.432	-10.592	1.00	49.84	A16S
ATOM	28356	P	G	A1343	221.271	124.831	-11.121	1.00	49.03	A16S
ATOM	28357	O1P	G	A1343	220.072	125.154	-10.321	1.00	56.33	A16S
ATOM	28358	O2P	G	A1343	221.156	124.772	-12.597	1.00	56.33	A16S
ATOM	28359	O5*	G	A1343	222.395	125.898	-10.737	1.00	49.03	A16S
ATOM	28360	C5*	G	A1343	222.871	126.038	-9.366	1.00	49.03	A16S
ATOM	28361	C4*	G	A1343	223.878	127.172	-9.263	1.00	49.03	A16S
ATOM	28362	O4*	G	A1343	225.123	126.790	-9.906	1.00	49.03	A16S
ATOM	28363	C1*	G	A1343	225.652	127.900	-10.615	1.00	49.03	A16S
ATOM	28364	N9	G	A1343	225.685	127.552	-12.035	1.00	56.33	A16S
ATOM	28365	C4	G	A1343	226.514	128.080	-12.989	1.00	56.33	A16S
ATOM	28366	N3	G	A1343	227.466	129.015	-12.783	1.00	56.33	A16S
ATOM	28367	C2	G	A1343	228.111	129.317	-13.898	1.00	56.33	A16S
ATOM	28368	N2	G	A1343	229.088	130.223	-13.879	1.00	56.33	A16S
ATOM	28369	N1	G	A1343	227.843	128.751	-15.119	1.00	56.33	A16S
ATOM	28370	C6	G	A1343	226.864	127.789	-15.358	1.00	56.33	A16S
ATOM	28371	O6	G	A1343	226.700	127.339	-16.513	1.00	56.33	A16S
ATOM	28372	C5	G	A1343	226.164	127.453	-14.163	1.00	56.33	A16S
ATOM	28373	N7	G	A1343	225.139	126.549	-13.951	1.00	56.33	A16S
ATOM	28374	C8	G	A1343	224.888	126.641	-12.679	1.00	56.33	A16S
ATOM	28375	C2*	G	A1343	224.762	129.118	-10.327	1.00	49.03	A16S
ATOM	28376	O2*	G	A1343	225.287	129.915	-9.283	1.00	49.03	A16S
ATOM	28377	C3*	G	A1343	223.445	128.461	-9.949	1.00	49.03	A16S
ATOM	28378	O3*	G	A1343	222.684	129.288	-9.084	1.00	49.03	A16S
ATOM	28379	P	C	A1344	221.526	130.215	-9.696	1.00	44.90	A16S
ATOM	28380	O1P	C	A1344	220.712	130.757	-8.570	1.00	64.35	A16S
ATOM	28381	O2P	C	A1344	220.860	129.458	-10.796	1.00	64.35	A16S
ATOM	28382	O5*	C	A1344	222.329	131.429	-10.330	1.00	44.90	A16S
ATOM	28383	C5*	C	A1344	223.037	132.358	-9.493	1.00	44.90	A16S
ATOM	28384	C4*	C	A1344	223.927	133.227	-10.337	1.00	44.90	A16S
ATOM	28385	O4*	C	A1344	224.933	132.384	-10.955	1.00	44.90	A16S
ATOM	28386	C1*	C	A1344	225.213	132.860	-12.264	1.00	44.90	A16S
ATOM	28387	N1	C	A1344	224.897	131.813	-13.253	1.00	64.35	A16S
ATOM	28388	C6	C	A1344	223.961	130.848	-12.999	1.00	64.35	A16S
ATOM	28389	C2	C	A1344	225.561	131.843	-14.482	1.00	64.35	A16S
ATOM	28390	O2	C	A1344	226.439	132.706	-14.672	1.00	64.35	A16S
ATOM	28391	N3	C	A1344	225.236	130.939	-15.429	1.00	64.35	A16S
ATOM	28392	C4	C	A1344	224.300	130.026	-15.182	1.00	64.35	A16S
ATOM	28393	N4	C	A1344	223.988	129.187	-16.155	1.00	64.35	A16S
ATOM	28394	C5	C	A1344	223.638	129.943	-13.926	1.00	64.35	A16S
ATOM	28395	C2*	C	A1344	224.368	134.109	-12.507	1.00	44.90	A16S
ATOM	28396	O2*	C	A1344	225.177	135.238	-12.274	1.00	44.90	A16S
ATOM	28397	C3*	C	A1344	223.234	133.920	-11.504	1.00	44.90	A16S
ATOM	28398	O3*	C	A1344	222.645	135.149	-11.112	1.00	44.90	A16S
ATOM	28399	P	U	A1345	221.602	135.882	-12.094	1.00	58.44	A16S
ATOM	28400	O1P	U	A1345	221.199	137.166	-11.459	1.00	63.99	A16S
ATOM	28401	O2P	U	A1345	220.560	134.909	-12.504	1.00	63.99	A16S
ATOM	28402	O5*	U	A1345	222.468	136.261	-13.370	1.00	58.44	A16S
ATOM	28403	C5*	U	A1345	223.454	137.289	-13.284	1.00	58.44	A16S
ATOM	28404	C4*	U	A1345	223.154	138.367	-14.281	1.00	58.44	A16S
ATOM	28405	O4*	U	A1345	223.325	137.835	-15.620	1.00	58.44	A16S
ATOM	28406	C1*	U	A1345	222.189	138.151	-16.375	1.00	58.44	A16S

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ATOM	28407	N1	U	A1345	222.056	137.212	-17.497	1.00	63.99	A16S
ATOM	28408	C6	U	A1345	221.236	136.106	-17.454	1.00	63.99	A16S
ATOM	28409	C2	U	A1345	222.768	137.518	-18.633	1.00	63.99	A16S
ATOM	28410	O2	U	A1345	223.563	138.438	-18.683	1.00	63.99	A16S
ATOM	28411	N3	U	A1345	222.522	136.706	-19.708	1.00	63.99	A16S
ATOM	28412	C4	U	A1345	221.676	135.624	-19.758	1.00	63.99	A16S
ATOM	28413	O4	U	A1345	221.421	135.116	-20.851	1.00	63.99	A16S
ATOM	28414	C5	U	A1345	221.028	135.322	-18.518	1.00	63.99	A16S
ATOM	28415	C2*	U	A1345	221.038	138.266	-15.379	1.00	58.44	A16S
ATOM	28416	O2*	U	A1345	220.013	139.068	-15.936	1.00	58.44	A16S
ATOM	28417	C3*	U	A1345	221.743	138.954	-14.216	1.00	58.44	A16S
ATOM	28418	O3*	U	A1345	221.809	140.334	-14.556	1.00	58.44	A16S
ATOM	28419	P	A	A1346	221.593	141.456	-13.433	1.00	56.36	A16S
ATOM	28420	O1P	A	A1346	221.017	140.816	-12.218	1.00	52.75	A16S
ATOM	28421	O2P	A	A1346	220.863	142.557	-14.111	1.00	52.75	A16S
ATOM	28422	O5*	A	A1346	223.076	141.950	-13.110	1.00	56.36	A16S
ATOM	28423	C5*	A	A1346	223.569	142.005	-11.758	1.00	56.36	A16S
ATOM	28424	C4*	A	A1346	224.626	143.075	-11.638	1.00	56.36	A16S
ATOM	28425	O4*	A	A1346	225.889	142.586	-12.168	1.00	56.36	A16S
ATOM	28426	C1*	A	A1346	226.410	143.509	-13.107	1.00	56.36	A16S
ATOM	28427	N9	A	A1346	227.076	142.753	-14.176	1.00	52.75	A16S
ATOM	28428	C4	A	A1346	228.179	143.143	-14.908	1.00	52.75	A16S
ATOM	28429	N3	A	A1346	228.884	144.281	-14.789	1.00	52.75	A16S
ATOM	28430	C2	A	A1346	229.864	144.331	-15.693	1.00	52.75	A16S
ATOM	28431	N1	A	A1346	230.195	143.447	-16.629	1.00	52.75	A16S
ATOM	28432	C6	A	A1346	229.470	142.313	-16.725	1.00	52.75	A16S
ATOM	28433	N6	A	A1346	229.799	141.432	-17.668	1.00	52.75	A16S
ATOM	28434	C5	A	A1346	228.404	142.134	-15.821	1.00	52.75	A16S
ATOM	28435	N7	A	A1346	227.481	141.116	-15.658	1.00	52.75	A16S
ATOM	28436	C8	A	A1346	226.723	141.528	-14.671	1.00	52.75	A16S
ATOM	28437	C2*	A	A1346	225.226	144.350	-13.600	1.00	56.36	A16S
ATOM	28438	O2*	A	A1346	225.573	145.639	-14.063	1.00	56.36	A16S
ATOM	28439	C3*	A	A1346	224.312	144.369	-12.382	1.00	56.36	A16S
ATOM	28440	O3*	A	A1346	224.014	145.572	-11.607	1.00	56.36	A16S
ATOM	28441	P	G	A1347	225.130	146.294	-10.675	1.00	62.42	A16S
ATOM	28442	O1P	G	A1347	224.547	147.634	-10.408	1.00	80.41	A16S
ATOM	28443	O2P	G	A1347	226.480	146.190	-11.301	1.00	80.41	A16S
ATOM	28444	O5*	G	A1347	225.086	145.473	-9.295	1.00	62.42	A16S
ATOM	28445	C5*	G	A1347	226.073	145.659	-8.222	1.00	62.42	A16S
ATOM	28446	C4*	G	A1347	227.305	144.829	-8.514	1.00	62.42	A16S
ATOM	28447	O4*	G	A1347	228.110	145.590	-9.437	1.00	62.42	A16S
ATOM	28448	C1*	G	A1347	229.404	145.060	-9.437	1.00	62.42	A16S
ATOM	28449	N9	G	A1347	230.380	146.119	-9.627	1.00	80.41	A16S
ATOM	28450	C4	G	A1347	231.329	146.143	-10.613	1.00	80.41	A16S
ATOM	28451	N3	G	A1347	231.545	145.174	-11.527	1.00	80.41	A16S
ATOM	28452	C2	G	A1347	232.505	145.495	-12.372	1.00	80.41	A16S
ATOM	28453	N2	G	A1347	232.861	144.639	-13.345	1.00	80.41	A16S
ATOM	28454	N1	G	A1347	233.190	146.677	-12.328	1.00	80.41	A16S
ATOM	28455	C6	G	A1347	232.982	147.688	-11.396	1.00	80.41	A16S
ATOM	28456	O6	G	A1347	233.648	148.727	-11.458	1.00	80.41	A16S
ATOM	28457	C5	G	A1347	231.966	147.347	-10.476	1.00	80.41	A16S
ATOM	28458	N7	G	A1347	231.455	148.052	-9.397	1.00	80.41	A16S
ATOM	28459	C8	G	A1347	230.521	147.278	-8.919	1.00	80.41	A16S
ATOM	28460	C2*	G	A1347	229.559	144.136	-8.236	1.00	62.42	A16S
ATOM	28461	O2*	G	A1347	229.466	142.839	-8.787	1.00	62.42	A16S
ATOM	28462	C3*	G	A1347	228.310	144.440	-7.421	1.00	62.42	A16S
ATOM	28463	O3*	G	A1347	227.826	143.300	-6.658	1.00	62.42	A16S
ATOM	28464	P	U	A1348	228.648	141.882	-6.581	1.00	54.85	A16S
ATOM	28465	O1P	U	A1348	228.194	141.209	-5.312	1.00	59.34	A16S
ATOM	28466	O2P	U	A1348	230.106	142.031	-6.812	1.00	59.34	A16S
ATOM	28467	O5*	U	A1348	228.015	141.027	-7.778	1.00	54.85	A16S
ATOM	28468	C5*	U	A1348	226.612	140.618	-7.713	1.00	54.85	A16S
ATOM	28469	C4*	U	A1348	226.290	139.570	-8.755	1.00	54.85	A16S
ATOM	28470	O4*	U	A1348	226.239	140.188	-10.056	1.00	54.85	A16S
ATOM	28471	C1*	U	A1348	226.831	139.330	-11.003	1.00	54.85	A16S
ATOM	28472	N1	U	A1348	227.957	140.052	-11.609	1.00	59.34	A16S
ATOM	28473	C6	U	A1348	228.574	141.089	-10.961	1.00	59.34	A16S
ATOM	28474	C2	U	A1348	228.355	139.667	-12.856	1.00	59.34	A16S
ATOM	28475	O2	U	A1348	227.860	138.732	-13.439	1.00	59.34	A16S
ATOM	28476	N3	U	A1348	229.360	140.417	-13.398	1.00	59.34	A16S
ATOM	28477	C4	U	A1348	230.000	141.478	-12.819	1.00	59.34	A16S
ATOM	28478	O4	U	A1348	230.820	142.115	-13.472	1.00	59.34	A16S
ATOM	28479	C5	U	A1348	229.555	141.793	-11.509	1.00	59.34	A16S
ATOM	28480	C2*	U	A1348	227.196	138.011	-10.312	1.00	54.85	A16S
ATOM	28481	O2*	U	A1348	226.150	137.090	-10.501	1.00	54.85	A16S
ATOM	28482	C3*	U	A1348	227.286	138.425	-8.853	1.00	54.85	A16S
ATOM	28483	O3*	U	A1348	226.842	137.361	-8.018	1.00	54.85	A16S

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ATOM	28484	P	A	A1349	227.910	136.373	-7.345	1.00	51.06	A16S
ATOM	28485	O1P	A	A1349	227.160	135.322	-6.606	1.00	65.04	A16S
ATOM	28486	O2P	A	A1349	228.888	137.219	-6.614	1.00	65.04	A16S
ATOM	28487	O5*	A	A1349	228.619	135.685	-8.595	1.00	51.06	A16S
ATOM	28488	C5*	A	A1349	227.911	134.698	-9.352	1.00	51.06	A16S
ATOM	28489	C4*	A	A1349	228.670	134.303	-10.597	1.00	51.06	A16S
ATOM	28490	O4*	A	A1349	228.813	135.444	-11.480	1.00	51.06	A16S
ATOM	28491	C1*	A	A1349	229.985	135.289	-12.257	1.00	51.06	A16S
ATOM	28492	N9	A	A1349	230.835	136.469	-12.072	1.00	65.04	A16S
ATOM	28493	C4	A	A1349	232.022	136.718	-12.719	1.00	65.04	A16S
ATOM	28494	N3	A	A1349	232.627	135.944	-13.630	1.00	65.04	A16S
ATOM	28495	C2	A	A1349	233.744	136.514	-14.051	1.00	65.04	A16S
ATOM	28496	N1	A	A1349	234.291	137.677	-13.689	1.00	65.04	A16S
ATOM	28497	C6	A	A1349	233.666	138.421	-12.763	1.00	65.04	A16S
ATOM	28498	N6	A	A1349	234.229	139.566	-12.385	1.00	65.04	A16S
ATOM	28499	C5	A	A1349	232.463	137.938	-12.247	1.00	65.04	A16S
ATOM	28500	N7	A	A1349	231.573	138.457	-11.321	1.00	65.04	A16S
ATOM	28501	C8	A	A1349	230.628	137.549	-11.250	1.00	65.04	A16S
ATOM	28502	C2*	A	A1349	230.645	133.972	-11.846	1.00	51.06	A16S
ATOM	28503	O2*	A	A1349	230.205	132.980	-12.750	1.00	51.06	A16S
ATOM	28504	C3*	A	A1349	230.076	133.755	-10.450	1.00	51.06	A16S
ATOM	28505	O3*	A	A1349	230.073	132.377	-10.107	1.00	51.06	A16S
ATOM	28506	P	A	A1350	231.167	131.830	-9.070	1.00	44.96	A16S
ATOM	28507	O1P	A	A1350	231.034	130.358	-8.899	1.00	61.57	A16S
ATOM	28508	O2P	A	A1350	231.075	132.712	-7.889	1.00	61.57	A16S
ATOM	28509	O5*	A	A1350	232.557	132.163	-9.774	1.00	44.96	A16S
ATOM	28510	C5*	A	A1350	232.962	131.503	-10.990	1.00	44.96	A16S
ATOM	28511	C4*	A	A1350	234.258	132.101	-11.512	1.00	44.96	A16S
ATOM	28512	O4*	A	A1350	234.012	133.419	-12.079	1.00	44.96	A16S
ATOM	28513	C1*	A	A1350	235.051	134.306	-11.693	1.00	44.96	A16S
ATOM	28514	N9	A	A1350	234.486	135.258	-10.730	1.00	61.57	A16S
ATOM	28515	C4	A	A1350	235.060	136.418	-10.260	1.00	61.57	A16S
ATOM	28516	N3	A	A1350	236.245	136.942	-10.604	1.00	61.57	A16S
ATOM	28517	C2	A	A1350	236.478	138.058	-9.926	1.00	61.57	A16S
ATOM	28518	N1	A	A1350	235.723	138.665	-9.009	1.00	61.57	A16S
ATOM	28519	C6	A	A1350	234.542	138.117	-8.683	1.00	61.57	A16S
ATOM	28520	N6	A	A1350	233.798	138.720	-7.756	1.00	61.57	A16S
ATOM	28521	C5	A	A1350	234.170	136.932	-9.336	1.00	61.57	A16S
ATOM	28522	N7	A	A1350	233.048	136.122	-9.232	1.00	61.57	A16S
ATOM	28523	C8	A	A1350	233.278	135.152	-10.080	1.00	61.57	A16S
ATOM	28524	C2*	A	A1350	236.151	133.451	-11.052	1.00	44.96	A16S
ATOM	28525	O2*	A	A1350	237.032	132.987	-12.055	1.00	44.96	A16S
ATOM	28526	C3*	A	A1350	235.344	132.306	-10.466	1.00	44.96	A16S
ATOM	28527	O3*	A	A1350	236.129	131.140	-10.286	1.00	44.96	A16S
ATOM	28528	P	U	A1351	236.638	130.752	-8.811	1.00	56.80	A16S
ATOM	28529	O1P	U	A1351	237.304	129.422	-8.897	1.00	71.53	A16S
ATOM	28530	O2P	U	A1351	235.511	130.943	-7.859	1.00	71.53	A16S
ATOM	28531	O5*	U	A1351	237.716	131.879	-8.477	1.00	56.80	A16S
ATOM	28532	C5*	U	A1351	238.937	132.004	-9.238	1.00	56.80	A16S
ATOM	28533	C4*	U	A1351	239.668	133.282	-8.867	1.00	56.80	A16S
ATOM	28534	O4*	U	A1351	238.832	134.421	-9.207	1.00	56.80	A16S
ATOM	28535	C1*	U	A1351	238.992	135.440	-8.237	1.00	56.80	A16S
ATOM	28536	N1	U	A1351	237.687	135.691	-7.592	1.00	71.53	A16S
ATOM	28537	C6	U	A1351	236.671	134.763	-7.630	1.00	71.53	A16S
ATOM	28538	C2	U	A1351	237.502	136.904	-6.944	1.00	71.53	A16S
ATOM	28539	O2	U	A1351	238.366	137.753	-6.869	1.00	71.53	A16S
ATOM	28540	N3	U	A1351	236.265	137.088	-6.381	1.00	71.53	A16S
ATOM	28541	C4	U	A1351	235.216	136.209	-6.386	1.00	71.53	A16S
ATOM	28542	O4	U	A1351	234.155	136.535	-5.852	1.00	71.53	A16S
ATOM	28543	C5	U	A1351	235.476	134.975	-7.064	1.00	71.53	A16S
ATOM	28544	C2*	U	A1351	240.099	134.989	-7.281	1.00	56.80	A16S
ATOM	28545	O2*	U	A1351	241.343	135.456	-7.775	1.00	56.80	A16S
ATOM	28546	C3*	U	A1351	240.008	133.476	-7.394	1.00	56.80	A16S
ATOM	28547	O3*	U	A1351	241.238	132.853	-7.033	1.00	56.80	A16S
ATOM	28548	P	C	A1352	241.472	132.356	-5.512	1.00	57.66	A16S
ATOM	28549	O1P	C	A1352	242.684	131.479	-5.534	1.00	74.70	A16S
ATOM	28550	O2P	C	A1352	240.204	131.830	-4.944	1.00	74.70	A16S
ATOM	28551	O5*	C	A1352	241.786	133.703	-4.722	1.00	57.66	A16S
ATOM	28552	C5*	C	A1352	242.896	134.547	-5.097	1.00	57.66	A16S
ATOM	28553	C4*	C	A1352	242.976	135.753	-4.189	1.00	57.66	A16S
ATOM	28554	O4*	C	A1352	241.966	136.734	-4.551	1.00	57.66	A16S
ATOM	28555	C1*	C	A1352	241.486	137.377	-3.377	1.00	57.66	A16S
ATOM	28556	N1	C	A1352	240.029	137.145	-3.244	1.00	74.70	A16S
ATOM	28557	C6	C	A1352	239.426	136.062	-3.824	1.00	74.70	A16S
ATOM	28558	C2	C	A1352	239.270	138.057	-2.502	1.00	74.70	A16S
ATOM	28559	O2	C	A1352	239.839	139.012	-1.961	1.00	74.70	A16S
ATOM	28560	N3	C	A1352	237.936	137.869	-2.385	1.00	74.70	A16S

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ATOM	28561	C4	C	A1352	237.355	136.817	-2.966	1.00	74.70	A16S
ATOM	28562	N4	C	A1352	236.024	136.682	-2.841	1.00	74.70	A16S
ATOM	28563	C5	C	A1352	238.105	135.859	-3.708	1.00	74.70	A16S
ATOM	28564	C2*	C	A1352	242.265	136.815	-2.186	1.00	57.66	A16S
ATOM	28565	O2*	C	A1352	243.339	137.671	-1.883	1.00	57.66	A16S
ATOM	28566	C3*	C	A1352	242.731	135.469	-2.716	1.00	57.66	A16S
ATOM	28567	O3*	C	A1352	243.889	134.994	-2.046	1.00	57.66	A16S
ATOM	28568	P	G	A1353	243.751	133.768	-1.016	1.00	65.50	A16S
ATOM	28569	O1P	G	A1353	245.081	133.105	-0.911	1.00	69.66	A16S
ATOM	28570	O2P	G	A1353	242.554	132.969	-1.407	1.00	69.66	A16S
ATOM	28571	O5*	G	A1353	243.437	134.460	0.381	1.00	65.50	A16S
ATOM	28572	C5*	G	A1353	244.477	135.113	1.112	1.00	65.50	A16S
ATOM	28573	C4*	G	A1353	244.009	136.460	1.597	1.00	65.50	A16S
ATOM	28574	O4*	G	A1353	243.096	137.029	0.623	1.00	65.50	A16S
ATOM	28575	C1*	G	A1353	242.151	137.855	1.280	1.00	65.50	A16S
ATOM	28576	N9	G	A1353	240.804	137.362	0.986	1.00	69.66	A16S
ATOM	28577	C4	G	A1353	239.614	137.978	1.313	1.00	69.66	A16S
ATOM	28578	N3	G	A1353	239.475	139.168	1.933	1.00	69.66	A16S
ATOM	28579	C2	G	A1353	238.208	139.465	2.153	1.00	69.66	A16S
ATOM	28580	N2	G	A1353	237.881	140.599	2.768	1.00	69.66	A16S
ATOM	28581	N1	G	A1353	237.166	138.670	1.790	1.00	69.66	A16S
ATOM	28582	C6	G	A1353	237.281	137.442	1.156	1.00	69.66	A16S
ATOM	28583	O6	G	A1353	236.267	136.793	0.894	1.00	69.66	A16S
ATOM	28584	C5	G	A1353	238.631	137.107	0.908	1.00	69.66	A16S
ATOM	28585	N7	G	A1353	239.181	135.987	0.303	1.00	69.66	A16S
ATOM	28586	C8	G	A1353	240.469	136.183	0.366	1.00	69.66	A16S
ATOM	28587	C2*	G	A1353	242.488	137.822	2.776	1.00	65.50	A16S
ATOM	28588	O2*	G	A1353	243.366	138.890	3.062	1.00	65.50	A16S
ATOM	28589	C3*	G	A1353	243.238	136.509	2.904	1.00	65.50	A16S
ATOM	28590	O3*	G	A1353	244.146	136.596	3.984	1.00	65.50	A16S
ATOM	28591	P	C	A1354	243.666	136.202	5.462	1.00	54.48	A16S
ATOM	28592	O1P	C	A1354	244.847	136.308	6.372	1.00	80.17	A16S
ATOM	28593	O2P	C	A1354	242.949	134.908	5.350	1.00	80.17	A16S
ATOM	28594	O5*	C	A1354	242.596	137.335	5.821	1.00	54.48	A16S
ATOM	28595	C5*	C	A1354	243.019	138.679	6.156	1.00	54.48	A16S
ATOM	28596	C4*	C	A1354	241.877	139.482	6.760	1.00	54.48	A16S
ATOM	28597	O4*	C	A1354	240.953	139.938	5.731	1.00	54.48	A16S
ATOM	28598	C1*	C	A1354	239.629	139.944	6.250	1.00	54.48	A16S
ATOM	28599	N1	C	A1354	238.837	138.906	5.547	1.00	80.17	A16S
ATOM	28600	C6	C	A1354	239.460	137.892	4.868	1.00	80.17	A16S
ATOM	28601	C2	C	A1354	237.425	138.951	5.611	1.00	80.17	A16S
ATOM	28602	O2	C	A1354	236.869	139.888	6.211	1.00	80.17	A16S
ATOM	28603	N3	C	A1354	236.710	137.967	5.017	1.00	80.17	A16S
ATOM	28604	C4	C	A1354	237.337	136.975	4.377	1.00	80.17	A16S
ATOM	28605	N4	C	A1354	236.594	136.023	3.819	1.00	80.17	A16S
ATOM	28606	C5	C	A1354	238.756	136.916	4.280	1.00	80.17	A16S
ATOM	28607	C2*	C	A1354	239.724	139.588	7.735	1.00	54.48	A16S
ATOM	28608	O2*	C	A1354	239.818	140.764	8.510	1.00	54.48	A16S
ATOM	28609	C3*	C	A1354	240.998	138.762	7.769	1.00	54.48	A16S
ATOM	28610	O3*	C	A1354	241.554	138.685	9.069	1.00	54.48	A16S
ATOM	28611	P	G	A1355	241.083	137.503	10.054	1.00	52.38	A16S
ATOM	28612	O1P	G	A1355	242.031	137.388	11.199	1.00	87.44	A16S
ATOM	28613	O2P	G	A1355	240.835	136.311	9.201	1.00	87.44	A16S
ATOM	28614	O5*	G	A1355	239.681	138.031	10.611	1.00	52.38	A16S
ATOM	28615	C5*	G	A1355	239.576	139.320	11.270	1.00	52.38	A16S
ATOM	28616	C4*	G	A1355	238.137	139.622	11.644	1.00	52.38	A16S
ATOM	28617	O4*	G	A1355	237.334	139.737	10.436	1.00	52.38	A16S
ATOM	28618	C1*	G	A1355	236.027	139.225	10.676	1.00	52.38	A16S
ATOM	28619	N9	G	A1355	235.827	138.034	9.841	1.00	87.44	A16S
ATOM	28620	C4	G	A1355	234.646	137.324	9.659	1.00	87.44	A16S
ATOM	28621	N3	G	A1355	233.439	137.621	10.191	1.00	87.44	A16S
ATOM	28622	C2	G	A1355	232.516	136.731	9.851	1.00	87.44	A16S
ATOM	28623	N2	G	A1355	231.263	136.862	10.293	1.00	87.44	A16S
ATOM	28624	N1	G	A1355	232.750	135.645	9.057	1.00	87.44	A16S
ATOM	28625	C6	G	A1355	233.974	135.315	8.499	1.00	87.44	A16S
ATOM	28626	O6	G	A1355	234.074	134.303	7.802	1.00	87.44	A16S
ATOM	28627	C5	G	A1355	234.983	136.258	8.849	1.00	87.44	A16S
ATOM	28628	N7	G	A1355	236.330	136.303	8.507	1.00	87.44	A16S
ATOM	28629	C8	G	A1355	236.787	137.371	9.107	1.00	87.44	A16S
ATOM	28630	C2*	G	A1355	235.948	138.879	12.166	1.00	52.38	A16S
ATOM	28631	O2*	G	A1355	235.468	139.993	12.896	1.00	52.38	A16S
ATOM	28632	C3*	G	A1355	237.405	138.588	12.494	1.00	52.38	A16S
ATOM	28633	O3*	G	A1355	237.637	138.726	13.891	1.00	52.38	A16S
ATOM	28634	P	G	A1356	237.365	137.474	14.871	1.00	71.34	A16S
ATOM	28635	O1P	G	A1356	237.702	137.881	16.253	1.00	80.11	A16S
ATOM	28636	O2P	G	A1356	238.016	136.280	14.283	1.00	80.11	A16S
ATOM	28637	O5*	G	A1356	235.786	137.255	14.822	1.00	71.34	A16S

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ATOM	28638	C5*	G	A1356	234.876	138.300	15.237	1.00	71.34	A16S
ATOM	28639	C4*	G	A1356	233.439	137.856	15.059	1.00	71.34	A16S
ATOM	28640	O4*	G	A1356	233.204	137.533	13.663	1.00	71.34	A16S
ATOM	28641	C1*	G	A1356	232.297	136.449	13.568	1.00	71.34	A16S
ATOM	28642	N9	G	A1356	232.947	135.352	12.850	1.00	80.11	A16S
ATOM	28643	C4	G	A1356	232.318	134.294	12.232	1.00	80.11	A16S
ATOM	28644	N3	G	A1356	230.986	134.093	12.167	1.00	80.11	A16S
ATOM	28645	C2	G	A1356	230.688	132.971	11.540	1.00	80.11	A16S
ATOM	28646	N2	G	A1356	229.406	132.606	11.400	1.00	80.11	A16S
ATOM	28647	N1	G	A1356	231.623	132.119	11.010	1.00	80.11	A16S
ATOM	28648	C6	G	A1356	232.997	132.305	11.063	1.00	80.11	A16S
ATOM	28649	O6	G	A1356	233.750	131.464	10.566	1.00	80.11	A16S
ATOM	28650	C5	G	A1356	233.333	133.504	11.734	1.00	80.11	A16S
ATOM	28651	N7	G	A1356	234.572	134.062	12.011	1.00	80.11	A16S
ATOM	28652	C8	G	A1356	234.296	135.155	12.671	1.00	80.11	A16S
ATOM	28653	C2*	G	A1356	231.869	136.067	14.987	1.00	71.34	A16S
ATOM	28654	O2*	G	A1356	230.628	136.675	15.283	1.00	71.34	A16S
ATOM	28655	C3*	G	A1356	233.026	136.605	15.823	1.00	71.34	A16S
ATOM	28656	O3*	G	A1356	232.622	136.922	17.152	1.00	71.34	A16S
ATOM	28657	P	A	A1357	232.947	135.901	18.353	1.00	65.68	A16S
ATOM	28658	O1P	A	A1357	232.973	136.709	19.599	1.00	81.55	A16S
ATOM	28659	O2P	A	A1357	234.123	135.064	17.991	1.00	81.55	A16S
ATOM	28660	O5*	A	A1357	231.671	134.954	18.423	1.00	65.68	A16S
ATOM	28661	C5*	A	A1357	230.352	135.507	18.608	1.00	65.68	A16S
ATOM	28662	C4*	A	A1357	229.309	134.597	17.999	1.00	65.68	A16S
ATOM	28663	O4*	A	A1357	229.538	134.482	16.573	1.00	65.68	A16S
ATOM	28664	C1*	A	A1357	229.247	133.163	16.154	1.00	65.68	A16S
ATOM	28665	N9	A	A1357	230.448	132.591	15.537	1.00	81.55	A16S
ATOM	28666	C4	A	A1357	230.487	131.489	14.715	1.00	81.55	A16S
ATOM	28667	N3	A	A1357	229.453	130.731	14.317	1.00	81.55	A16S
ATOM	28668	C2	A	A1357	229.871	129.735	13.548	1.00	81.55	A16S
ATOM	28669	N1	A	A1357	231.109	129.434	13.155	1.00	81.55	A16S
ATOM	28670	C6	A	A1357	232.123	130.221	13.559	1.00	81.55	A16S
ATOM	28671	N6	A	A1357	233.353	129.926	13.149	1.00	81.55	A16S
ATOM	28672	C5	A	A1357	231.815	131.309	14.386	1.00	81.55	A16S
ATOM	28673	N7	A	A1357	232.604	132.284	14.979	1.00	81.55	A16S
ATOM	28674	C8	A	A1357	231.749	133.016	15.648	1.00	81.55	A16S
ATOM	28675	C2*	A	A1357	228.731	132.380	17.367	1.00	65.68	A16S
ATOM	28676	O2*	A	A1357	227.316	132.413	17.374	1.00	65.68	A16S
ATOM	28677	C3*	A	A1357	229.313	133.172	18.528	1.00	65.68	A16S
ATOM	28678	O3*	A	A1357	228.451	133.096	19.650	1.00	65.68	A16S
ATOM	28679	P	U	A1358	229.054	132.816	21.107	1.00	62.15	A16S
ATOM	28680	O1P	U	A1358	228.007	133.274	22.069	1.00	66.41	A16S
ATOM	28681	O2P	U	A1358	230.427	133.395	21.170	1.00	66.41	A16S
ATOM	28682	O5*	U	A1358	229.182	131.231	21.186	1.00	62.15	A16S
ATOM	28683	C5*	U	A1358	228.034	130.392	20.989	1.00	62.15	A16S
ATOM	28684	C4*	U	A1358	228.452	129.083	20.376	1.00	62.15	A16S
ATOM	28685	O4*	U	A1358	228.987	129.307	19.057	1.00	62.15	A16S
ATOM	28686	C1*	U	A1358	229.839	128.226	18.731	1.00	62.15	A16S
ATOM	28687	N1	U	A1358	230.992	128.709	17.959	1.00	66.41	A16S
ATOM	28688	C6	U	A1358	231.435	130.004	18.053	1.00	66.41	A16S
ATOM	28689	C2	U	A1358	231.642	127.795	17.143	1.00	66.41	A16S
ATOM	28690	O2	U	A1358	231.254	126.647	16.984	1.00	66.41	A16S
ATOM	28691	N3	U	A1358	232.760	128.274	16.517	1.00	66.41	A16S
ATOM	28692	C4	U	A1358	233.277	129.541	16.605	1.00	66.41	A16S
ATOM	28693	O4	U	A1358	234.354	129.785	16.074	1.00	66.41	A16S
ATOM	28694	C5	U	A1358	232.526	130.437	17.420	1.00	66.41	A16S
ATOM	28695	C2*	U	A1358	230.230	127.513	20.032	1.00	62.15	A16S
ATOM	28696	O2*	U	A1358	229.787	126.173	20.037	1.00	62.15	A16S
ATOM	28697	C3*	U	A1358	229.579	128.381	21.106	1.00	62.15	A16S
ATOM	28698	O3*	U	A1358	229.039	127.560	22.128	1.00	62.15	A16S
ATOM	28699	P	C	A1359	229.628	127.653	23.615	1.00	75.58	A16S
ATOM	28700	O1P	C	A1359	229.124	126.486	24.405	1.00	53.59	A16S
ATOM	28701	O2P	C	A1359	229.332	129.044	24.072	1.00	53.59	A16S
ATOM	28702	O5*	C	A1359	231.193	127.451	23.407	1.00	75.58	A16S
ATOM	28703	C5*	C	A1359	231.735	126.142	23.158	1.00	75.58	A16S
ATOM	28704	C4*	C	A1359	233.199	126.239	22.799	1.00	75.58	A16S
ATOM	28705	O4*	C	A1359	233.330	126.994	21.576	1.00	75.58	A16S
ATOM	28706	C1*	C	A1359	234.516	127.757	21.610	1.00	75.58	A16S
ATOM	28707	N1	C	A1359	234.161	129.170	21.387	1.00	53.59	A16S
ATOM	28708	C6	C	A1359	232.948	129.666	21.785	1.00	53.59	A16S
ATOM	28709	C2	C	A1359	235.071	129.994	20.721	1.00	53.59	A16S
ATOM	28710	O2	C	A1359	236.195	129.533	20.417	1.00	53.59	A16S
ATOM	28711	N3	C	A1359	234.713	131.272	20.422	1.00	53.59	A16S
ATOM	28712	C4	C	A1359	233.509	131.732	20.779	1.00	53.59	A16S
ATOM	28713	N4	C	A1359	233.181	132.988	20.427	1.00	53.59	A16S
ATOM	28714	C5	C	A1359	232.583	130.927	21.503	1.00	53.59	A16S

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ATOM	28715	C2*	C	A1359	235.245	127.436	22.910	1.00	75.58	A16S
ATOM	28716	O2*	C	A1359	236.144	126.383	22.628	1.00	75.58	A16S
ATOM	28717	C3*	C	A1359	234.101	126.957	23.792	1.00	75.58	A16S
ATOM	28718	O3*	C	A1359	234.539	126.058	24.815	1.00	75.58	A16S
ATOM	28719	P	A	A1360	235.049	126.642	26.232	1.00	74.24	A16S
ATOM	28720	O1P	A	A1360	234.166	127.796	26.611	1.00	75.91	A16S
ATOM	28721	O2P	A	A1360	235.194	125.479	27.164	1.00	75.91	A16S
ATOM	28722	O5*	A	A1360	236.501	127.203	25.882	1.00	74.24	A16S
ATOM	28723	C5*	A	A1360	237.318	127.860	26.871	1.00	74.24	A16S
ATOM	28724	C4*	A	A1360	238.724	127.297	26.850	1.00	74.24	A16S
ATOM	28725	O4*	A	A1360	238.760	126.008	27.503	1.00	74.24	A16S
ATOM	28726	C1*	A	A1360	239.718	125.183	26.870	1.00	74.24	A16S
ATOM	28727	N9	A	A1360	239.069	123.918	26.531	1.00	75.91	A16S
ATOM	28728	C4	A	A1360	239.677	122.711	26.277	1.00	75.91	A16S
ATOM	28729	N3	A	A1360	240.993	122.459	26.205	1.00	75.91	A16S
ATOM	28730	C2	A	A1360	241.214	121.155	26.014	1.00	75.91	A16S
ATOM	28731	N1	A	A1360	240.336	120.150	25.899	1.00	75.91	A16S
ATOM	28732	C6	A	A1360	239.019	120.437	25.971	1.00	75.91	A16S
ATOM	28733	N6	A	A1360	238.139	119.431	25.869	1.00	75.91	A16S
ATOM	28734	C5	A	A1360	238.652	121.788	26.160	1.00	75.91	A16S
ATOM	28735	N7	A	A1360	237.418	122.412	26.271	1.00	75.91	A16S
ATOM	28736	C8	A	A1360	237.720	123.673	26.474	1.00	75.91	A16S
ATOM	28737	C2*	A	A1360	240.353	125.970	25.724	1.00	74.24	A16S
ATOM	28738	O2*	A	A1360	241.583	126.499	26.171	1.00	74.24	A16S
ATOM	28739	C3*	A	A1360	239.316	127.060	25.473	1.00	74.24	A16S
ATOM	28740	O3*	A	A1360	239.906	128.255	24.977	1.00	74.24	A16S
ATOM	28741	P	G	A1361	239.999	128.491	23.393	1.00	54.24	A16S
ATOM	28742	O1P	G	A1361	240.954	129.615	23.129	1.00	64.91	A16S
ATOM	28743	O2P	G	A1361	238.601	128.597	22.893	1.00	64.91	A16S
ATOM	28744	O5*	G	A1361	240.669	127.128	22.878	1.00	54.24	A16S
ATOM	28745	C5*	G	A1361	242.085	126.865	23.091	1.00	54.24	A16S
ATOM	28746	C4*	G	A1361	242.477	125.506	22.535	1.00	54.24	A16S
ATOM	28747	O4*	G	A1361	241.923	124.452	23.359	1.00	54.24	A16S
ATOM	28748	C1*	G	A1361	241.522	123.366	22.544	1.00	54.24	A16S
ATOM	28749	N9	G	A1361	240.077	123.232	22.681	1.00	64.91	A16S
ATOM	28750	C4	G	A1361	239.356	122.073	22.588	1.00	64.91	A16S
ATOM	28751	N3	G	A1361	239.862	120.846	22.357	1.00	64.91	A16S
ATOM	28752	C2	G	A1361	238.918	119.929	22.315	1.00	64.91	A16S
ATOM	28753	N2	G	A1361	239.240	118.649	22.096	1.00	64.91	A16S
ATOM	28754	N1	G	A1361	237.584	120.197	22.484	1.00	64.91	A16S
ATOM	28755	C6	G	A1361	237.044	121.456	22.717	1.00	64.91	A16S
ATOM	28756	O6	G	A1361	235.827	121.590	22.847	1.00	64.91	A16S
ATOM	28757	C5	G	A1361	238.041	122.444	22.767	1.00	64.91	A16S
ATOM	28758	N7	G	A1361	237.937	123.813	22.970	1.00	64.91	A16S
ATOM	28759	C8	G	A1361	239.167	124.240	22.915	1.00	64.91	A16S
ATOM	28760	C2*	G	A1361	241.929	123.679	21.103	1.00	54.24	A16S
ATOM	28761	O2*	G	A1361	243.146	123.035	20.773	1.00	54.24	A16S
ATOM	28762	C3*	G	A1361	241.997	125.199	21.129	1.00	54.24	A16S
ATOM	28763	O3*	G	A1361	242.885	125.713	20.164	1.00	54.24	A16S
ATOM	28764	P	C	A1361A	242.294	126.342	18.820	1.00	64.68	A16S
ATOM	28765	O1P	C	A1361A	243.425	126.880	18.020	1.00	69.67	A16S
ATOM	28766	O2P	C	A1361A	241.182	127.245	19.206	1.00	69.67	A16S
ATOM	28767	O5*	C	A1361A	241.684	125.067	18.084	1.00	64.68	A16S
ATOM	28768	C5*	C	A1361A	242.523	123.944	17.743	1.00	64.68	A16S
ATOM	28769	C4*	C	A1361A	241.697	122.807	17.178	1.00	64.68	A16S
ATOM	28770	O4*	C	A1361A	240.936	122.153	18.232	1.00	64.68	A16S
ATOM	28771	C1*	C	A1361A	239.705	121.677	17.706	1.00	64.68	A16S
ATOM	28772	N1	C	A1361A	238.586	122.342	18.413	1.00	69.67	A16S
ATOM	28773	C6	C	A1361A	238.577	123.699	18.588	1.00	69.67	A16S
ATOM	28774	C2	C	A1361A	237.517	121.562	18.895	1.00	69.67	A16S
ATOM	28775	O2	C	A1361A	237.535	120.328	18.728	1.00	69.67	A16S
ATOM	28776	N3	C	A1361A	236.486	122.172	19.527	1.00	69.67	A16S
ATOM	28777	C4	C	A1361A	236.491	123.497	19.686	1.00	69.67	A16S
ATOM	28778	N4	C	A1361A	235.452	124.054	20.315	1.00	69.67	A16S
ATOM	28779	C5	C	A1361A	237.560	124.311	19.208	1.00	69.67	A16S
ATOM	28780	C2*	C	A1361A	239.698	121.981	16.208	1.00	64.68	A16S
ATOM	28781	O2*	C	A1361A	240.181	120.853	15.504	1.00	64.68	A16S
ATOM	28782	C3*	C	A1361A	240.655	123.166	16.129	1.00	64.68	A16S
ATOM	28783	O3*	C	A1361A	241.214	123.336	14.832	1.00	64.68	A16S
ATOM	28784	P	C	A1362	240.243	123.604	13.573	1.00	53.33	A16S
ATOM	28785	O1P	C	A1362	240.950	124.478	12.584	1.00	59.45	A16S
ATOM	28786	O2P	C	A1362	238.921	124.022	14.083	1.00	59.45	A16S
ATOM	28787	O5*	C	A1362	240.131	122.154	12.930	1.00	53.33	A16S
ATOM	28788	C5*	C	A1362	238.873	121.488	12.783	1.00	53.33	A16S
ATOM	28789	C4*	C	A1362	239.111	120.082	12.311	1.00	53.33	A16S
ATOM	28790	O4*	C	A1362	239.812	119.352	13.344	1.00	53.33	A16S
ATOM	28791	C1*	C	A1362	239.496	117.984	13.230	1.00	53.33	A16S

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ATOM	28792	N1	C	A1362	239.117	117.445	14.541	1.00	59.45	A16S
ATOM	28793	C6	C	A1362	238.542	118.222	15.512	1.00	59.45	A16S
ATOM	28794	C2	C	A1362	239.375	116.104	14.776	1.00	59.45	A16S
ATOM	28795	O2	C	A1362	239.879	115.426	13.852	1.00	59.45	A16S
ATOM	28796	N3	C	A1362	239.077	115.570	15.987	1.00	59.45	A16S
ATOM	28797	C4	C	A1362	238.537	116.333	16.939	1.00	59.45	A16S
ATOM	28798	N4	C	A1362	238.284	115.764	18.132	1.00	59.45	A16S
ATOM	28799	C5	C	A1362	238.239	117.712	16.717	1.00	59.45	A16S
ATOM	28800	C2*	C	A1362	238.439	117.814	12.140	1.00	53.33	A16S
ATOM	28801	O2*	C	A1362	239.093	117.346	10.968	1.00	53.33	A16S
ATOM	28802	C3*	C	A1362	237.889	119.233	12.009	1.00	53.33	A16S
ATOM	28803	O3*	C	A1362	237.445	119.466	10.680	1.00	53.33	A16S
ATOM	28804	P	A	A1363	236.396	120.644	10.379	1.00	70.80	A16S
ATOM	28805	O1P	A	A1363	235.714	121.044	11.638	1.00	80.76	A16S
ATOM	28806	O2P	A	A1363	235.594	120.221	9.214	1.00	80.76	A16S
ATOM	28807	O5*	A	A1363	237.314	121.852	9.920	1.00	70.80	A16S
ATOM	28808	C5*	A	A1363	237.366	122.245	8.550	1.00	70.80	A16S
ATOM	28809	C4*	A	A1363	237.225	123.733	8.462	1.00	70.80	A16S
ATOM	28810	O4*	A	A1363	235.919	124.113	8.963	1.00	70.80	A16S
ATOM	28811	C1*	A	A1363	236.063	125.006	10.047	1.00	70.80	A16S
ATOM	28812	N9	A	A1363	234.958	124.771	10.982	1.00	80.76	A16S
ATOM	28813	C4	A	A1363	234.637	125.528	12.083	1.00	80.76	A16S
ATOM	28814	N3	A	A1363	235.269	126.627	12.533	1.00	80.76	A16S
ATOM	28815	C2	A	A1363	234.681	127.089	13.630	1.00	80.76	A16S
ATOM	28816	N1	A	A1363	233.616	126.614	14.282	1.00	80.76	A16S
ATOM	28817	C6	A	A1363	233.008	125.505	13.804	1.00	80.76	A16S
ATOM	28818	N6	A	A1363	231.955	125.014	14.463	1.00	80.76	A16S
ATOM	28819	C5	A	A1363	233.527	124.926	12.642	1.00	80.76	A16S
ATOM	28820	N7	A	A1363	233.144	123.817	11.906	1.00	80.76	A16S
ATOM	28821	C8	A	A1363	234.021	123.766	10.937	1.00	80.76	A16S
ATOM	28822	C2*	A	A1363	237.483	124.795	10.585	1.00	70.80	A16S
ATOM	28823	O2*	A	A1363	237.991	125.954	11.220	1.00	70.80	A16S
ATOM	28824	C3*	A	A1363	238.242	124.494	9.297	1.00	70.80	A16S
ATOM	28825	O3*	A	A1363	238.507	125.714	8.618	1.00	70.80	A16S
ATOM	28826	P	U	A1364	239.669	125.776	7.515	1.00	66.05	A16S
ATOM	28827	O1P	U	A1364	239.999	127.225	7.303	1.00	66.34	A16S
ATOM	28828	O2P	U	A1364	240.733	124.815	7.937	1.00	66.34	A16S
ATOM	28829	O5*	U	A1364	239.005	125.240	6.171	1.00	66.05	A16S
ATOM	28830	C5*	U	A1364	239.256	125.932	4.934	1.00	66.05	A16S
ATOM	28831	C4*	U	A1364	238.220	125.574	3.899	1.00	66.05	A16S
ATOM	28832	O4*	U	A1364	238.621	124.405	3.153	1.00	66.05	A16S
ATOM	28833	C1*	U	A1364	237.799	123.311	3.488	1.00	66.05	A16S
ATOM	28834	N1	U	A1364	238.710	122.252	3.950	1.00	66.34	A16S
ATOM	28835	C6	U	A1364	239.641	122.513	4.924	1.00	66.34	A16S
ATOM	28836	C2	U	A1364	238.641	120.998	3.351	1.00	66.34	A16S
ATOM	28837	O2	U	A1364	237.795	120.692	2.530	1.00	66.34	A16S
ATOM	28838	N3	U	A1364	239.600	120.109	3.763	1.00	66.34	A16S
ATOM	28839	C4	U	A1364	240.582	120.330	4.702	1.00	66.34	A16S
ATOM	28840	O4	U	A1364	241.428	119.464	4.904	1.00	66.34	A16S
ATOM	28841	C5	U	A1364	240.552	121.624	5.307	1.00	66.34	A16S
ATOM	28842	C2*	U	A1364	236.771	123.783	4.521	1.00	66.05	A16S
ATOM	28843	O2*	U	A1364	235.521	123.167	4.330	1.00	66.05	A16S
ATOM	28844	C3*	U	A1364	236.810	125.317	4.396	1.00	66.05	A16S
ATOM	28845	O3*	U	A1364	235.945	126.086	3.516	1.00	66.05	A16S
ATOM	28846	P	G	A1365	234.709	125.423	2.736	1.00	46.08	A16S
ATOM	28847	O1P	G	A1365	235.243	124.228	2.056	1.00	75.76	A16S
ATOM	28848	O2P	G	A1365	234.078	126.504	1.927	1.00	75.76	A16S
ATOM	28849	O5*	G	A1365	233.681	124.960	3.866	1.00	46.08	A16S
ATOM	28850	C5*	G	A1365	232.801	123.827	3.631	1.00	46.08	A16S
ATOM	28851	C4*	G	A1365	231.690	123.770	4.658	1.00	46.08	A16S
ATOM	28852	O4*	G	A1365	232.229	123.495	5.981	1.00	46.08	A16S
ATOM	28853	C1*	G	A1365	231.452	124.182	6.954	1.00	46.08	A16S
ATOM	28854	N9	G	A1365	232.298	125.137	7.677	1.00	75.76	A16S
ATOM	28855	C4	G	A1365	231.951	125.825	8.818	1.00	75.76	A16S
ATOM	28856	N3	G	A1365	230.784	125.712	9.483	1.00	75.76	A16S
ATOM	28857	C2	G	A1365	230.725	126.522	10.516	1.00	75.76	A16S
ATOM	28858	N2	G	A1365	229.625	126.541	11.285	1.00	75.76	A16S
ATOM	28859	N1	G	A1365	231.736	127.375	10.871	1.00	75.76	A16S
ATOM	28860	C6	G	A1365	232.947	127.507	10.202	1.00	75.76	A16S
ATOM	28861	O6	G	A1365	233.791	128.318	10.604	1.00	75.76	A16S
ATOM	28862	C5	G	A1365	233.022	126.644	9.094	1.00	75.76	A16S
ATOM	28863	N7	G	A1365	234.035	126.464	8.166	1.00	75.76	A16S
ATOM	28864	C8	G	A1365	233.568	125.557	7.350	1.00	75.76	A16S
ATOM	28865	C2*	G	A1365	230.300	124.884	6.223	1.00	46.08	A16S
ATOM	28866	O2*	G	A1365	229.168	124.042	6.267	1.00	46.08	A16S
ATOM	28867	C3*	G	A1365	230.860	125.034	4.815	1.00	46.08	A16S
ATOM	28868	O3*	G	A1365	229.828	125.066	3.846	1.00	46.08	A16S

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ATOM	28869	P	C	A1366	229.274	126.480	3.316	1.00	52.49	A16S
ATOM	28870	O1P	C	A1366	228.216	126.222	2.301	1.00	90.35	A16S
ATOM	28871	O2P	C	A1366	230.442	127.328	2.959	1.00	90.35	A16S
ATOM	28872	O5*	C	A1366	228.552	127.107	4.590	1.00	52.49	A16S
ATOM	28873	C5*	C	A1366	227.430	126.439	5.202	1.00	52.49	A16S
ATOM	28874	C4*	C	A1366	226.966	127.192	6.430	1.00	52.49	A16S
ATOM	28875	O4*	C	A1366	227.922	127.051	7.508	1.00	52.49	A16S
ATOM	28876	C1*	C	A1366	228.000	128.269	8.230	1.00	52.49	A16S
ATOM	28877	N1	C	A1366	229.393	128.764	8.147	1.00	90.35	A16S
ATOM	28878	C6	C	A1366	230.211	128.384	7.119	1.00	90.35	A16S
ATOM	28879	C2	C	A1366	229.869	129.629	9.137	1.00	90.35	A16S
ATOM	28880	O2	C	A1366	229.106	129.978	10.049	1.00	90.35	A16S
ATOM	28881	N3	C	A1366	231.144	130.068	9.071	1.00	90.35	A16S
ATOM	28882	C4	C	A1366	231.931	129.681	8.069	1.00	90.35	A16S
ATOM	28883	N4	C	A1366	233.185	130.126	8.051	1.00	90.35	A16S
ATOM	28884	C5	C	A1366	231.471	128.817	7.042	1.00	90.35	A16S
ATOM	28885	C2*	C	A1366	226.967	129.240	7.636	1.00	52.49	A16S
ATOM	28886	O2*	C	A1366	225.754	129.198	8.356	1.00	52.49	A16S
ATOM	28887	C3*	C	A1366	226.783	128.685	6.236	1.00	52.49	A16S
ATOM	28888	O3*	C	A1366	225.486	128.961	5.764	1.00	52.49	A16S
ATOM	28889	P	C	A1367	225.240	130.269	4.892	1.00	43.54	A16S
ATOM	28890	O1P	C	A1367	223.814	130.262	4.460	1.00	76.57	A16S
ATOM	28891	O2P	C	A1367	226.321	130.314	3.870	1.00	76.57	A16S
ATOM	28892	O5*	C	A1367	225.475	131.448	5.938	1.00	43.54	A16S
ATOM	28893	C5*	C	A1367	224.572	131.632	7.060	1.00	43.54	A16S
ATOM	28894	C4*	C	A1367	224.991	132.822	7.895	1.00	43.54	A16S
ATOM	28895	O4*	C	A1367	226.177	132.507	8.668	1.00	43.54	A16S
ATOM	28896	C1*	C	A1367	227.001	133.655	8.758	1.00	43.54	A16S
ATOM	28897	N1	C	A1367	228.326	133.342	8.201	1.00	76.57	A16S
ATOM	28898	C6	C	A1367	228.531	132.213	7.460	1.00	76.57	A16S
ATOM	28899	C2	C	A1367	229.385	134.235	8.435	1.00	76.57	A16S
ATOM	28900	O2	C	A1367	229.180	135.255	9.113	1.00	76.57	A16S
ATOM	28901	N3	C	A1367	230.600	133.967	7.912	1.00	76.57	A16S
ATOM	28902	C4	C	A1367	230.783	132.866	7.183	1.00	76.57	A16S
ATOM	28903	N4	C	A1367	231.995	132.650	6.675	1.00	76.57	A16S
ATOM	28904	C5	C	A1367	229.730	131.939	6.937	1.00	76.57	A16S
ATOM	28905	C2*	C	A1367	226.311	134.802	8.015	1.00	43.54	A16S
ATOM	28906	O2*	C	A1367	225.674	135.637	8.955	1.00	43.54	A16S
ATOM	28907	C3*	C	A1367	225.352	134.057	7.094	1.00	43.54	A16S
ATOM	28908	O3*	C	A1367	224.203	134.822	6.787	1.00	43.54	A16S
ATOM	28909	P	G	A1368	224.184	135.702	5.451	1.00	45.28	A16S
ATOM	28910	O1P	G	A1368	222.932	136.513	5.432	1.00	63.09	A16S
ATOM	28911	O2P	G	A1368	224.459	134.753	4.350	1.00	63.09	A16S
ATOM	28912	O5*	G	A1368	225.451	136.675	5.581	1.00	45.28	A16S
ATOM	28913	C5*	G	A1368	225.336	137.931	6.282	1.00	45.28	A16S
ATOM	28914	C4*	G	A1368	226.697	138.540	6.643	1.00	45.28	A16S
ATOM	28915	O4*	G	A1368	227.636	137.557	7.175	1.00	45.28	A16S
ATOM	28916	C1*	G	A1368	228.955	138.083	7.074	1.00	45.28	A16S
ATOM	28917	N9	G	A1368	229.855	137.120	6.431	1.00	63.09	A16S
ATOM	28918	C4	G	A1368	231.231	137.251	6.322	1.00	63.09	A16S
ATOM	28919	N3	G	A1368	231.979	138.272	6.809	1.00	63.09	A16S
ATOM	28920	C2	G	A1368	233.264	138.132	6.517	1.00	63.09	A16S
ATOM	28921	N2	G	A1368	234.147	139.061	6.911	1.00	63.09	A16S
ATOM	28922	N1	G	A1368	233.775	137.077	5.814	1.00	63.09	A16S
ATOM	28923	C6	G	A1368	233.033	136.016	5.307	1.00	63.09	A16S
ATOM	28924	O6	G	A1368	233.603	135.117	4.682	1.00	63.09	A16S
ATOM	28925	C5	G	A1368	231.647	136.150	5.609	1.00	63.09	A16S
ATOM	28926	N7	G	A1368	230.570	135.328	5.295	1.00	63.09	A16S
ATOM	28927	C8	G	A1368	229.532	135.940	5.802	1.00	63.09	A16S
ATOM	28928	C2*	G	A1368	228.872	139.399	6.293	1.00	45.28	A16S
ATOM	28929	O2*	G	A1368	228.910	140.482	7.206	1.00	45.28	A16S
ATOM	28930	C3*	G	A1368	227.517	139.288	5.601	1.00	45.28	A16S
ATOM	28931	O3*	G	A1368	227.028	140.603	5.351	1.00	45.28	A16S
ATOM	28932	P	C	A1369	227.640	141.456	4.129	1.00	49.31	A16S
ATOM	28933	O1P	C	A1369	226.953	142.776	4.068	1.00	72.64	A16S
ATOM	28934	O2P	C	A1369	227.670	140.592	2.918	1.00	72.64	A16S
ATOM	28935	O5*	C	A1369	229.159	141.698	4.549	1.00	49.31	A16S
ATOM	28936	C5*	C	A1369	229.507	142.650	5.579	1.00	49.31	A16S
ATOM	28937	C4*	C	A1369	230.944	143.104	5.418	1.00	49.31	A16S
ATOM	28938	O4*	C	A1369	231.858	142.023	5.747	1.00	49.31	A16S
ATOM	28939	C1*	C	A1369	232.989	142.085	4.898	1.00	49.31	A16S
ATOM	28940	N1	C	A1369	233.090	140.813	4.153	1.00	72.64	A16S
ATOM	28941	C6	C	A1369	232.058	139.914	4.158	1.00	72.64	A16S
ATOM	28942	C2	C	A1369	234.265	140.531	3.432	1.00	72.64	A16S
ATOM	28943	O2	C	A1369	235.195	141.357	3.435	1.00	72.64	A16S
ATOM	28944	N3	C	A1369	234.355	139.364	2.753	1.00	72.64	A16S
ATOM	28945	C4	C	A1369	233.342	138.496	2.779	1.00	72.64	A16S

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ATOM	28946	N4	C	A1369	233.483	137.358	2.109	1.00	72.64	A16S
ATOM	28947	C5	C	A1369	232.143	138.756	3.495	1.00	72.64	A16S
ATOM	28948	C2*	C	A1369	232.838	143.320	4.002	1.00	49.31	A16S
ATOM	28949	O2*	C	A1369	233.550	144.376	4.600	1.00	49.31	A16S
ATOM	28950	C3*	C	A1369	231.334	143.562	4.022	1.00	49.31	A16S
ATOM	28951	O3*	C	A1369	231.035	144.944	3.881	1.00	49.31	A16S
ATOM	28952	P	G	A1370	230.541	145.522	2.468	1.00	56.25	A16S
ATOM	28953	O1P	G	A1370	230.092	146.926	2.687	1.00	80.54	A16S
ATOM	28954	O2P	G	A1370	229.593	144.537	1.877	1.00	80.54	A16S
ATOM	28955	O5*	G	A1370	231.876	145.588	1.591	1.00	56.25	A16S
ATOM	28956	C5*	G	A1370	232.688	146.789	1.595	1.00	56.25	A16S
ATOM	28957	C4*	G	A1370	234.162	146.471	1.397	1.00	56.25	A16S
ATOM	28958	O4*	G	A1370	234.500	145.230	2.066	1.00	56.25	A16S
ATOM	28959	C1*	G	A1370	235.547	144.583	1.367	1.00	56.25	A16S
ATOM	28960	N9	G	A1370	235.060	143.286	0.899	1.00	80.54	A16S
ATOM	28961	C4	G	A1370	235.813	142.283	0.322	1.00	80.54	A16S
ATOM	28962	N3	G	A1370	237.146	142.310	0.113	1.00	80.54	A16S
ATOM	28963	C2	G	A1370	237.575	141.216	-0.482	1.00	80.54	A16S
ATOM	28964	N2	G	A1370	238.871	141.082	-0.760	1.00	80.54	A16S
ATOM	28965	N1	G	A1370	236.762	140.175	-0.849	1.00	80.54	A16S
ATOM	28966	C6	G	A1370	235.386	140.124	-0.652	1.00	80.54	A16S
ATOM	28967	O6	G	A1370	234.738	139.139	-1.042	1.00	80.54	A16S
ATOM	28968	C5	G	A1370	234.913	141.291	-0.002	1.00	80.54	A16S
ATOM	28969	N7	G	A1370	233.628	141.646	0.386	1.00	80.54	A16S
ATOM	28970	C8	G	A1370	233.763	142.831	0.917	1.00	80.54	A16S
ATOM	28971	C2*	G	A1370	235.957	145.497	0.211	1.00	56.25	A16S
ATOM	28972	O2*	G	A1370	236.999	146.333	0.662	1.00	56.25	A16S
ATOM	28973	C3*	G	A1370	234.686	146.297	-0.021	1.00	56.25	A16S
ATOM	28974	O3*	G	A1370	235.011	147.559	-0.586	1.00	56.25	A16S
ATOM	28975	P	G	A1371	235.215	147.703	-2.174	1.00	58.40	A16S
ATOM	28976	O1P	G	A1371	235.479	149.133	-2.473	1.00	83.08	A16S
ATOM	28977	O2P	G	A1371	234.099	147.011	-2.860	1.00	83.08	A16S
ATOM	28978	O5*	G	A1371	236.558	146.896	-2.459	1.00	58.40	A16S
ATOM	28979	C5*	G	A1371	237.833	147.413	-2.019	1.00	58.40	A16S
ATOM	28980	C4*	G	A1371	238.977	146.604	-2.596	1.00	58.40	A16S
ATOM	28981	O4*	G	A1371	238.987	145.258	-2.052	1.00	58.40	A16S
ATOM	28982	C1*	G	A1371	239.435	144.348	-3.042	1.00	58.40	A16S
ATOM	28983	N9	G	A1371	238.396	143.333	-3.248	1.00	83.08	A16S
ATOM	28984	C4	G	A1371	238.529	142.114	-3.892	1.00	83.08	A16S
ATOM	28985	N3	G	A1371	239.649	141.633	-4.473	1.00	83.08	A16S
ATOM	28986	C2	G	A1371	239.464	140.429	-4.990	1.00	83.08	A16S
ATOM	28987	N2	G	A1371	240.478	139.792	-5.590	1.00	83.08	A16S
ATOM	28988	N1	G	A1371	238.274	139.756	-4.954	1.00	83.08	A16S
ATOM	28989	C6	G	A1371	237.102	140.229	-4.374	1.00	83.08	A16S
ATOM	28990	O6	G	A1371	236.068	139.535	-4.408	1.00	83.08	A16S
ATOM	28991	C5	G	A1371	237.288	141.518	-3.802	1.00	83.08	A16S
ATOM	28992	N7	G	A1371	236.393	142.338	-3.130	1.00	83.08	A16S
ATOM	28993	C8	G	A1371	237.089	143.400	-2.826	1.00	83.08	A16S
ATOM	28994	C2*	G	A1371	239.799	145.168	-4.288	1.00	58.40	A16S
ATOM	28995	O2*	G	A1371	241.175	145.482	-4.242	1.00	58.40	A16S
ATOM	28996	C3*	G	A1371	238.965	146.423	-4.098	1.00	58.40	A16S
ATOM	28997	O3*	G	A1371	239.572	147.535	-4.714	1.00	58.40	A16S
ATOM	28998	P	U	A1372	238.956	148.119	-6.071	1.00	52.19	A16S
ATOM	28999	O1P	U	A1372	239.704	149.361	-6.396	1.00	84.10	A16S
ATOM	29000	O2P	U	A1372	237.474	148.178	-5.930	1.00	84.10	A16S
ATOM	29001	O5*	U	A1372	239.333	147.006	-7.148	1.00	52.19	A16S
ATOM	29002	C5*	U	A1372	240.711	146.760	-7.494	1.00	52.19	A16S
ATOM	29003	C4*	U	A1372	240.834	145.593	-8.451	1.00	52.19	A16S
ATOM	29004	O4*	U	A1372	240.620	144.333	-7.764	1.00	52.19	A16S
ATOM	29005	C1*	U	A1372	240.058	143.395	-8.669	1.00	52.19	A16S
ATOM	29006	N1	U	A1372	238.772	142.908	-8.143	1.00	84.10	A16S
ATOM	29007	C6	U	A1372	238.113	143.556	-7.130	1.00	84.10	A16S
ATOM	29008	C2	U	A1372	238.231	141.782	-8.729	1.00	84.10	A16S
ATOM	29009	O2	U	A1372	238.803	141.151	-9.602	1.00	84.10	A16S
ATOM	29010	N3	U	A1372	236.997	141.421	-8.256	1.00	84.10	A16S
ATOM	29011	C4	U	A1372	236.268	142.048	-7.269	1.00	84.10	A16S
ATOM	29012	O4	U	A1372	235.123	141.658	-7.012	1.00	84.10	A16S
ATOM	29013	C5	U	A1372	236.915	143.175	-6.686	1.00	84.10	A16S
ATOM	29014	C2*	U	A1372	239.883	144.095	-10.021	1.00	52.19	A16S
ATOM	29015	O2*	U	A1372	240.966	143.775	-10.862	1.00	52.19	A16S
ATOM	29016	C3*	U	A1372	239.883	145.566	-9.634	1.00	52.19	A16S
ATOM	29017	O3*	U	A1372	240.372	146.343	-10.713	1.00	52.19	A16S
ATOM	29018	P	G	A1373	239.350	146.876	-11.831	1.00	55.72	A16S
ATOM	29019	O1P	G	A1373	240.088	147.215	-13.085	1.00	87.85	A16S
ATOM	29020	O2P	G	A1373	238.500	147.910	-11.174	1.00	87.85	A16S
ATOM	29021	O5*	G	A1373	238.428	145.612	-12.143	1.00	55.72	A16S
ATOM	29022	C5*	G	A1373	238.893	144.518	-12.962	1.00	55.72	A16S

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ATOM	29023	C4*	G	A1373	237.774	143.513	-13.190	1.00	55.72	A16S
ATOM	29024	O4*	G	A1373	237.412	142.848	-11.945	1.00	55.72	A16S
ATOM	29025	C1*	G	A1373	236.024	142.578	-11.936	1.00	55.72	A16S
ATOM	29026	N9	G	A1373	235.409	143.369	-10.874	1.00	87.85	A16S
ATOM	29027	C4	G	A1373	234.316	143.016	-10.119	1.00	87.85	A16S
ATOM	29028	N3	G	A1373	233.655	141.845	-10.185	1.00	87.85	A16S
ATOM	29029	C2	G	A1373	232.641	141.805	-9.347	1.00	87.85	A16S
ATOM	29030	N2	G	A1373	231.883	140.705	-9.276	1.00	87.85	A16S
ATOM	29031	N1	G	A1373	232.292	142.837	-8.516	1.00	87.85	A16S
ATOM	29032	C6	G	A1373	232.938	144.060	-8.439	1.00	87.85	A16S
ATOM	29033	O6	G	A1373	232.507	144.939	-7.673	1.00	87.85	A16S
ATOM	29034	C5	G	A1373	234.051	144.111	-9.323	1.00	87.85	A16S
ATOM	29035	N7	G	A1373	234.978	145.117	-9.549	1.00	87.85	A16S
ATOM	29036	C8	G	A1373	235.769	144.630	-10.466	1.00	87.85	A16S
ATOM	29037	C2*	G	A1373	235.466	143.012	-13.291	1.00	55.72	A16S
ATOM	29038	O2*	G	A1373	235.492	141.923	-14.181	1.00	55.72	A16S
ATOM	29039	C3*	G	A1373	236.463	144.077	-13.706	1.00	55.72	A16S
ATOM	29040	O3*	G	A1373	236.482	144.256	-15.108	1.00	55.72	A16S
ATOM	29041	P	A	A1374	235.270	145.031	-15.816	1.00	53.48	A16S
ATOM	29042	O1P	A	A1374	235.698	145.395	-17.202	1.00	74.72	A16S
ATOM	29043	O2P	A	A1374	234.811	146.102	-14.891	1.00	74.72	A16S
ATOM	29044	O5*	A	A1374	234.125	143.919	-15.859	1.00	53.48	A16S
ATOM	29045	C5*	A	A1374	233.506	143.508	-17.106	1.00	53.48	A16S
ATOM	29046	C4*	A	A1374	234.140	142.226	-17.617	1.00	53.48	A16S
ATOM	29047	O4*	A	A1374	234.217	141.239	-16.558	1.00	53.48	A16S
ATOM	29048	C1*	A	A1374	233.966	139.951	-17.085	1.00	53.48	A16S
ATOM	29049	N9	A	A1374	232.816	139.379	-16.370	1.00	74.72	A16S
ATOM	29050	C4	A	A1374	232.170	138.196	-16.649	1.00	74.72	A16S
ATOM	29051	N3	A	A1374	232.450	137.325	-17.631	1.00	74.72	A16S
ATOM	29052	C2	A	A1374	231.614	136.293	-17.596	1.00	74.72	A16S
ATOM	29053	N1	A	A1374	230.605	136.048	-16.759	1.00	74.72	A16S
ATOM	29054	C6	A	A1374	230.348	136.936	-15.783	1.00	74.72	A16S
ATOM	29055	N6	A	A1374	229.340	136.678	-14.950	1.00	74.72	A16S
ATOM	29056	C5	A	A1374	231.167	138.080	-15.707	1.00	74.72	A16S
ATOM	29057	N7	A	A1374	231.178	139.166	-14.847	1.00	74.72	A16S
ATOM	29058	C8	A	A1374	232.167	139.905	-15.283	1.00	74.72	A16S
ATOM	29059	C2*	A	A1374	233.796	140.093	-18.604	1.00	53.48	A16S
ATOM	29060	O2*	A	A1374	235.030	139.856	-19.247	1.00	53.48	A16S
ATOM	29061	C3*	A	A1374	233.385	141.547	-18.744	1.00	53.48	A16S
ATOM	29062	O3*	A	A1374	233.782	142.074	-19.997	1.00	53.48	A16S
ATOM	29063	P	A	A1375	232.689	142.252	-21.152	1.00	50.79	A16S
ATOM	29064	O1P	A	A1375	233.335	142.856	-22.360	1.00	62.90	A16S
ATOM	29065	O2P	A	A1375	231.501	142.911	-20.544	1.00	62.90	A16S
ATOM	29066	O5*	A	A1375	232.299	140.748	-21.490	1.00	50.79	A16S
ATOM	29067	C5*	A	A1375	233.298	139.833	-21.960	1.00	50.79	A16S
ATOM	29068	C4*	A	A1375	232.695	138.477	-22.223	1.00	50.79	A16S
ATOM	29069	O4*	A	A1375	232.379	137.813	-20.975	1.00	50.79	A16S
ATOM	29070	C1*	A	A1375	231.202	137.046	-21.131	1.00	50.79	A16S
ATOM	29071	N9	A	A1375	230.226	137.525	-20.154	1.00	62.90	A16S
ATOM	29072	C4	A	A1375	229.028	136.939	-19.823	1.00	62.90	A16S
ATOM	29073	N3	A	A1375	228.495	135.823	-20.343	1.00	62.90	A16S
ATOM	29074	C2	A	A1375	227.327	135.547	-19.762	1.00	62.90	A16S
ATOM	29075	N1	A	A1375	226.679	136.214	-18.798	1.00	62.90	A16S
ATOM	29076	C6	A	A1375	227.236	137.336	-18.311	1.00	62.90	A16S
ATOM	29077	N6	A	A1375	226.577	138.004	-17.370	1.00	62.90	A16S
ATOM	29078	C5	A	A1375	228.479	137.732	-18.837	1.00	62.90	A16S
ATOM	29079	N7	A	A1375	229.308	138.804	-18.559	1.00	62.90	A16S
ATOM	29080	C8	A	A1375	230.323	138.640	-19.368	1.00	62.90	A16S
ATOM	29081	C2*	A	A1375	230.752	137.172	-22.591	1.00	50.79	A16S
ATOM	29082	O2*	A	A1375	231.257	136.083	-23.339	1.00	50.79	A16S
ATOM	29083	C3*	A	A1375	231.400	138.485	-23.005	1.00	50.79	A16S
ATOM	29084	O3*	A	A1375	231.662	138.545	-24.394	1.00	50.79	A16S
ATOM	29085	P	U	A1376	230.647	139.337	-25.359	1.00	48.25	A16S
ATOM	29086	O1P	U	A1376	231.112	139.087	-26.761	1.00	63.66	A16S
ATOM	29087	O2P	U	A1376	230.517	140.750	-24.868	1.00	63.66	A16S
ATOM	29088	O5*	U	A1376	229.271	138.551	-25.146	1.00	48.25	A16S
ATOM	29089	C5*	U	A1376	229.175	137.155	-25.506	1.00	48.25	A16S
ATOM	29090	C4*	U	A1376	227.869	136.548	-25.035	1.00	48.25	A16S
ATOM	29091	O4*	U	A1376	227.869	136.373	-23.594	1.00	48.25	A16S
ATOM	29092	C1*	U	A1376	226.550	136.519	-23.107	1.00	48.25	A16S
ATOM	29093	N1	U	A1376	226.513	137.644	-22.157	1.00	63.66	A16S
ATOM	29094	C6	U	A1376	227.468	138.624	-22.153	1.00	63.66	A16S
ATOM	29095	C2	U	A1376	225.463	137.690	-21.273	1.00	63.66	A16S
ATOM	29096	O2	U	A1376	224.609	136.836	-21.224	1.00	63.66	A16S
ATOM	29097	N3	U	A1376	225.444	138.774	-20.441	1.00	63.66	A16S
ATOM	29098	C4	U	A1376	226.347	139.795	-20.396	1.00	63.66	A16S
ATOM	29099	O4	U	A1376	226.152	140.740	-19.623	1.00	63.66	A16S

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ATOM	29100	C5	U	A1376	227.424	139.670	-21.326	1.00	63.66	A16S
ATOM	29101	C2*	U	A1376	225.623	136.739	-24.311	1.00	48.25	A16S
ATOM	29102	O2*	U	A1376	225.061	135.500	-24.697	1.00	48.25	A16S
ATOM	29103	C3*	U	A1376	226.585	137.295	-25.357	1.00	48.25	A16S
ATOM	29104	O3*	U	A1376	226.148	137.021	-26.691	1.00	48.25	A16S
ATOM	29105	P	A	A1377	225.087	138.002	-27.410	1.00	54.10	A16S
ATOM	29106	O1P	A	A1377	224.985	137.615	-28.851	1.00	60.93	A16S
ATOM	29107	O2P	A	A1377	225.438	139.402	-27.053	1.00	60.93	A16S
ATOM	29108	O5*	A	A1377	223.700	137.645	-26.706	1.00	54.10	A16S
ATOM	29109	C5*	A	A1377	222.935	136.489	-27.117	1.00	54.10	A16S
ATOM	29110	C4*	A	A1377	221.649	136.385	-26.323	1.00	54.10	A16S
ATOM	29111	O4*	A	A1377	221.962	136.202	-24.916	1.00	54.10	A16S
ATOM	29112	C1*	A	A1377	220.976	136.837	-24.116	1.00	54.10	A16S
ATOM	29113	N9	A	A1377	221.615	137.913	-23.371	1.00	60.93	A16S
ATOM	29114	C4	A	A1377	221.303	138.347	-22.107	1.00	60.93	A16S
ATOM	29115	N3	A	A1377	220.373	137.849	-21.275	1.00	60.93	A16S
ATOM	29116	C2	A	A1377	220.336	138.550	-20.144	1.00	60.93	A16S
ATOM	29117	N1	A	A1377	221.074	139.601	-19.778	1.00	60.93	A16S
ATOM	29118	C6	A	A1377	222.008	140.062	-20.640	1.00	60.93	A16S
ATOM	29119	N6	A	A1377	222.768	141.101	-20.284	1.00	60.93	A16S
ATOM	29120	C5	A	A1377	222.135	139.419	-21.867	1.00	60.93	A16S
ATOM	29121	N7	A	A1377	222.972	139.645	-22.947	1.00	60.93	A16S
ATOM	29122	C8	A	A1377	222.630	138.723	-23.806	1.00	60.93	A16S
ATOM	29123	C2*	A	A1377	219.929	137.428	-25.055	1.00	54.10	A16S
ATOM	29124	O2*	A	A1377	218.843	136.527	-25.137	1.00	54.10	A16S
ATOM	29125	C3*	A	A1377	220.726	137.592	-26.345	1.00	54.10	A16S
ATOM	29126	O3*	A	A1377	219.893	137.617	-27.486	1.00	54.10	A16S
ATOM	29127	P	C	A1378	218.924	138.875	-27.721	1.00	56.39	A16S
ATOM	29128	O1P	C	A1378	219.773	140.102	-27.729	1.00	62.60	A16S
ATOM	29129	O2P	C	A1378	217.778	138.781	-26.774	1.00	62.60	A16S
ATOM	29130	O5*	C	A1378	218.336	138.636	-29.180	1.00	56.39	A16S
ATOM	29131	C5*	C	A1378	218.989	139.182	-30.336	1.00	56.39	A16S
ATOM	29132	C4*	C	A1378	218.916	138.204	-31.475	1.00	56.39	A16S
ATOM	29133	O4*	C	A1378	219.755	137.054	-31.200	1.00	56.39	A16S
ATOM	29134	C1*	C	A1378	219.148	135.890	-31.727	1.00	56.39	A16S
ATOM	29135	N1	C	A1378	219.021	134.875	-30.657	1.00	62.60	A16S
ATOM	29136	C6	C	A1378	219.142	135.213	-29.338	1.00	62.60	A16S
ATOM	29137	C2	C	A1378	218.795	133.533	-31.023	1.00	62.60	A16S
ATOM	29138	O2	C	A1378	218.655	133.246	-32.230	1.00	62.60	A16S
ATOM	29139	N3	C	A1378	218.732	132.584	-30.056	1.00	62.60	A16S
ATOM	29140	C4	C	A1378	218.872	132.926	-28.778	1.00	62.60	A16S
ATOM	29141	N4	C	A1378	218.817	131.952	-27.868	1.00	62.60	A16S
ATOM	29142	C5	C	A1378	219.079	134.279	-28.376	1.00	62.60	A16S
ATOM	29143	C2*	C	A1378	217.836	136.299	-32.401	1.00	56.39	A16S
ATOM	29144	O2*	C	A1378	218.092	136.439	-33.785	1.00	56.39	A16S
ATOM	29145	C3*	C	A1378	217.534	137.629	-31.716	1.00	56.39	A16S
ATOM	29146	O3*	C	A1378	216.769	138.517	-32.517	1.00	56.39	A16S
ATOM	29147	P	G	A1379	215.387	139.100	-31.948	1.00	68.99	A16S
ATOM	29148	O1P	G	A1379	214.775	139.955	-33.005	1.00	54.14	A16S
ATOM	29149	O2P	G	A1379	215.647	139.661	-30.588	1.00	54.14	A16S
ATOM	29150	O5*	G	A1379	214.457	137.820	-31.799	1.00	68.99	A16S
ATOM	29151	C5*	G	A1379	214.274	137.182	-30.531	1.00	68.99	A16S
ATOM	29152	C4*	G	A1379	214.382	135.689	-30.688	1.00	68.99	A16S
ATOM	29153	O4*	G	A1379	215.615	135.237	-30.078	1.00	68.99	A16S
ATOM	29154	C1*	G	A1379	215.393	134.004	-29.421	1.00	68.99	A16S
ATOM	29155	N9	G	A1379	215.712	134.172	-28.006	1.00	54.14	A16S
ATOM	29156	C4	G	A1379	215.858	133.167	-27.086	1.00	54.14	A16S
ATOM	29157	N3	G	A1379	215.695	131.846	-27.321	1.00	54.14	A16S
ATOM	29158	C2	G	A1379	215.937	131.120	-26.242	1.00	54.14	A16S
ATOM	29159	N2	G	A1379	215.838	129.792	-26.302	1.00	54.14	A16S
ATOM	29160	N1	G	A1379	216.301	131.649	-25.028	1.00	54.14	A16S
ATOM	29161	C6	G	A1379	216.471	133.006	-24.766	1.00	54.14	A16S
ATOM	29162	O6	G	A1379	216.808	133.381	-23.638	1.00	54.14	A16S
ATOM	29163	C5	G	A1379	216.217	133.795	-25.913	1.00	54.14	A16S
ATOM	29164	N7	G	A1379	216.266	135.169	-26.084	1.00	54.14	A16S
ATOM	29165	C8	G	A1379	215.953	135.348	-27.336	1.00	54.14	A16S
ATOM	29166	C2*	G	A1379	213.948	133.574	-29.683	1.00	68.99	A16S
ATOM	29167	O2*	G	A1379	213.928	132.658	-30.761	1.00	68.99	A16S
ATOM	29168	C3*	G	A1379	213.280	134.907	-29.999	1.00	68.99	A16S
ATOM	29169	O3*	G	A1379	212.179	134.761	-30.882	1.00	68.99	A16S
ATOM	29170	P	U	A1380	210.679	134.750	-30.300	1.00	76.65	A16S
ATOM	29171	O1P	U	A1380	209.763	134.693	-31.482	1.00	62.92	A16S
ATOM	29172	O2P	U	A1380	210.519	135.839	-29.297	1.00	62.92	A16S
ATOM	29173	O5*	U	A1380	210.574	133.364	-29.526	1.00	76.65	A16S
ATOM	29174	C5*	U	A1380	210.406	132.127	-30.240	1.00	76.65	A16S
ATOM	29175	C4*	U	A1380	210.176	131.023	-29.257	1.00	76.65	A16S
ATOM	29176	O4*	U	A1380	211.313	131.014	-28.375	1.00	76.65	A16S

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ATOM	29177	C1* U	A1380	210.897	130.736	-27.064	1.00	76.65	A16S
ATOM	29178	N1 U	A1380	211.691	131.555	-26.141	1.00	62.92	A16S
ATOM	29179	C6 U	A1380	212.218	132.765	-26.526	1.00	62.92	A16S
ATOM	29180	C2 U	A1380	211.919	131.046	-24.868	1.00	62.92	A16S
ATOM	29181	O2 U	A1380	211.451	129.987	-24.476	1.00	62.92	A16S
ATOM	29182	N3 U	A1380	212.715	131.822	-24.070	1.00	62.92	A16S
ATOM	29183	C4 U	A1380	213.281	133.029	-24.396	1.00	62.92	A16S
ATOM	29184	O4 U	A1380	213.944	133.622	-23.549	1.00	62.92	A16S
ATOM	29185	C5 U	A1380	212.987	133.498	-25.721	1.00	62.92	A16S
ATOM	29186	C2* U	A1380	209.369	130.769	-26.978	1.00	76.65	A16S
ATOM	29187	O2* U	A1380	208.933	129.490	-26.597	1.00	76.65	A16S
ATOM	29188	C3* U	A1380	208.975	131.284	-28.369	1.00	76.65	A16S
ATOM	29189	O3* U	A1380	207.762	130.857	-29.038	1.00	76.65	A16S
ATOM	29190	P U	A1381	207.315	129.290	-29.114	1.00	70.20	A16S
ATOM	29191	O1P U	A1381	206.045	129.342	-29.892	1.00	74.33	A16S
ATOM	29192	O2P U	A1381	207.319	128.611	-27.796	1.00	74.33	A16S
ATOM	29193	O5* U	A1381	208.368	128.522	-30.041	1.00	70.20	A16S
ATOM	29194	C5* U	A1381	207.885	127.599	-31.059	1.00	70.20	A16S
ATOM	29195	C4* U	A1381	208.695	126.309	-31.107	1.00	70.20	A16S
ATOM	29196	O4* U	A1381	210.027	126.577	-31.608	1.00	70.20	A16S
ATOM	29197	C1* U	A1381	210.926	125.605	-31.105	1.00	70.20	A16S
ATOM	29198	N1 U	A1381	212.025	126.280	-30.399	1.00	74.33	A16S
ATOM	29199	C6 U	A1381	212.085	127.643	-30.292	1.00	74.33	A16S
ATOM	29200	C2 U	A1381	213.000	125.484	-29.838	1.00	74.33	A16S
ATOM	29201	O2 U	A1381	212.983	124.270	-29.910	1.00	74.33	A16S
ATOM	29202	N3 U	A1381	213.996	126.158	-29.190	1.00	74.33	A16S
ATOM	29203	C4 U	A1381	214.119	127.516	-29.052	1.00	74.33	A16S
ATOM	29204	O4 U	A1381	215.133	127.979	-28.526	1.00	74.33	A16S
ATOM	29205	C5 U	A1381	213.069	128.270	-29.653	1.00	74.33	A16S
ATOM	29206	C2* U	A1381	210.139	124.659	-30.194	1.00	70.20	A16S
ATOM	29207	O2* U	A1381	209.813	123.480	-30.893	1.00	70.20	A16S
ATOM	29208	C3* U	A1381	208.911	125.487	-29.842	1.00	70.20	A16S
ATOM	29209	O3* U	A1381	207.844	124.591	-29.553	1.00	70.20	A16S
ATOM	29210	P C	A1382	207.726	123.940	-28.078	1.00	61.15	A16S
ATOM	29211	O1P C	A1382	206.611	122.944	-28.070	1.00	71.12	A16S
ATOM	29212	O2P C	A1382	207.704	125.077	-27.111	1.00	71.12	A16S
ATOM	29213	O5* C	A1382	209.089	123.136	-27.869	1.00	61.15	A16S
ATOM	29214	C5* C	A1382	209.340	121.905	-28.563	1.00	61.15	A16S
ATOM	29215	C4* C	A1382	210.626	121.291	-28.079	1.00	61.15	A16S
ATOM	29216	O4* C	A1382	211.727	122.188	-28.351	1.00	61.15	A16S
ATOM	29217	C1* C	A1382	212.670	122.122	-27.290	1.00	61.15	A16S
ATOM	29218	N1 C	A1382	212.859	123.474	-26.724	1.00	71.12	A16S
ATOM	29219	C6 C	A1382	211.906	124.441	-26.878	1.00	71.12	A16S
ATOM	29220	C2 C	A1382	214.048	123.761	-26.035	1.00	71.12	A16S
ATOM	29221	O2 C	A1382	214.891	122.858	-25.879	1.00	71.12	A16S
ATOM	29222	N3 C	A1382	214.245	125.014	-25.554	1.00	71.12	A16S
ATOM	29223	C4 C	A1382	213.308	125.950	-25.726	1.00	71.12	A16S
ATOM	29224	N4 C	A1382	213.542	127.169	-25.243	1.00	71.12	A16S
ATOM	29225	C5 C	A1382	212.089	125.678	-26.403	1.00	71.12	A16S
ATOM	29226	C2* C	A1382	212.172	121.095	-26.278	1.00	61.15	A16S
ATOM	29227	O2* C	A1382	212.800	119.856	-26.526	1.00	61.15	A16S
ATOM	29228	C3* C	A1382	210.685	121.067	-26.584	1.00	61.15	A16S
ATOM	29229	O3* C	A1382	210.095	119.839	-26.234	1.00	61.15	A16S
ATOM	29230	P C	A1383	209.196	119.760	-24.913	1.00	50.31	A16S
ATOM	29231	O1P C	A1383	208.431	118.482	-24.944	1.00	53.07	A16S
ATOM	29232	O2P C	A1383	208.456	121.065	-24.850	1.00	53.07	A16S
ATOM	29233	O5* C	A1383	210.267	119.648	-23.741	1.00	50.31	A16S
ATOM	29234	C5* C	A1383	211.104	118.496	-23.652	1.00	50.31	A16S
ATOM	29235	C4* C	A1383	212.141	118.696	-22.592	1.00	50.31	A16S
ATOM	29236	O4* C	A1383	213.042	119.755	-22.988	1.00	50.31	A16S
ATOM	29237	C1* C	A1383	213.481	120.461	-21.837	1.00	50.31	A16S
ATOM	29238	N1 C	A1383	213.138	121.889	-21.967	1.00	53.07	A16S
ATOM	29239	C6 C	A1383	212.327	122.347	-22.969	1.00	53.07	A16S
ATOM	29240	C2 C	A1383	213.658	122.775	-21.025	1.00	53.07	A16S
ATOM	29241	O2 C	A1383	214.373	122.325	-20.116	1.00	53.07	A16S
ATOM	29242	N3 C	A1383	213.363	124.089	-21.116	1.00	53.07	A16S
ATOM	29243	C4 C	A1383	212.564	124.526	-22.084	1.00	53.07	A16S
ATOM	29244	N4 C	A1383	212.284	125.827	-22.116	1.00	53.07	A16S
ATOM	29245	C5 C	A1383	212.012	123.646	-23.061	1.00	53.07	A16S
ATOM	29246	C2* C	A1383	212.802	119.841	-20.620	1.00	50.31	A16S
ATOM	29247	O2* C	A1383	213.685	118.940	-19.993	1.00	50.31	A16S
ATOM	29248	C3* C	A1383	211.603	119.160	-21.256	1.00	50.31	A16S
ATOM	29249	O3* C	A1383	211.118	118.099	-20.472	1.00	50.31	A16S
ATOM	29250	P C	A1384	209.745	118.299	-19.673	1.00	56.27	A16S
ATOM	29251	O1P C	A1384	209.347	116.983	-19.104	1.00	40.58	A16S
ATOM	29252	O2P C	A1384	208.817	119.028	-20.588	1.00	40.58	A16S
ATOM	29253	O5* C	A1384	210.148	119.236	-18.448	1.00	56.27	A16S

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ATOM	29254	C5*	C	A1384	210.959	118.709	-17.388	1.00	56.27	A16S
ATOM	29255	C4*	C	A1384	211.198	119.749	-16.333	1.00	56.27	A16S
ATOM	29256	O4*	C	A1384	212.003	120.818	-16.875	1.00	56.27	A16S
ATOM	29257	C1*	C	A1384	211.652	122.043	-16.255	1.00	56.27	A16S
ATOM	29258	N1	C	A1384	211.189	122.981	-17.292	1.00	40.58	A16S
ATOM	29259	C6	C	A1384	210.855	122.535	-18.542	1.00	40.58	A16S
ATOM	29260	C2	C	A1384	211.096	124.358	-16.979	1.00	40.58	A16S
ATOM	29261	O2	C	A1384	211.413	124.740	-15.829	1.00	40.58	A16S
ATOM	29262	N3	C	A1384	210.670	125.225	-17.937	1.00	40.58	A16S
ATOM	29263	C4	C	A1384	210.356	124.767	-19.158	1.00	40.58	A16S
ATOM	29264	N4	C	A1384	209.961	125.643	-20.083	1.00	40.58	A16S
ATOM	29265	C5	C	A1384	210.440	123.382	-19.492	1.00	40.58	A16S
ATOM	29266	C2*	C	A1384	210.578	121.733	-15.221	1.00	56.27	A16S
ATOM	29267	O2*	C	A1384	211.216	121.530	-13.971	1.00	56.27	A16S
ATOM	29268	C3*	C	A1384	209.978	120.457	-15.794	1.00	56.27	A16S
ATOM	29269	O3*	C	A1384	209.306	119.676	-14.829	1.00	56.27	A16S
ATOM	29270	P	G	A1385	207.706	119.808	-14.687	1.00	57.63	A16S
ATOM	29271	O1P	G	A1385	207.285	118.707	-13.764	1.00	42.95	A16S
ATOM	29272	O2P	G	A1385	207.106	119.911	-16.056	1.00	42.95	A16S
ATOM	29273	O5*	G	A1385	207.502	121.193	-13.923	1.00	57.63	A16S
ATOM	29274	C5*	G	A1385	207.991	121.347	-12.580	1.00	57.63	A16S
ATOM	29275	C4*	G	A1385	207.898	122.782	-12.143	1.00	57.63	A16S
ATOM	29276	O4*	G	A1385	208.842	123.607	-12.872	1.00	57.63	A16S
ATOM	29277	C1*	G	A1385	208.299	124.903	-13.059	1.00	57.63	A16S
ATOM	29278	N9	G	A1385	208.072	125.113	-14.482	1.00	42.95	A16S
ATOM	29279	C4	G	A1385	207.874	126.326	-15.099	1.00	42.95	A16S
ATOM	29280	N3	G	A1385	207.913	127.535	-14.501	1.00	42.95	A16S
ATOM	29281	C2	G	A1385	207.663	128.516	-15.358	1.00	42.95	A16S
ATOM	29282	N2	G	A1385	207.696	129.797	-14.949	1.00	42.95	A16S
ATOM	29283	N1	G	A1385	207.371	128.317	-16.682	1.00	42.95	A16S
ATOM	29284	C6	G	A1385	207.312	127.079	-17.309	1.00	42.95	A16S
ATOM	29285	O6	G	A1385	207.007	127.010	-18.500	1.00	42.95	A16S
ATOM	29286	C5	G	A1385	207.611	126.027	-16.418	1.00	42.95	A16S
ATOM	29287	N7	G	A1385	207.677	124.657	-16.637	1.00	42.95	A16S
ATOM	29288	C8	G	A1385	207.960	124.155	-15.463	1.00	42.95	A16S
ATOM	29289	C2*	G	A1385	206.943	124.924	-12.370	1.00	57.63	A16S
ATOM	29290	O2*	G	A1385	207.086	125.449	-11.067	1.00	57.63	A16S
ATOM	29291	C3*	G	A1385	206.575	123.450	-12.413	1.00	57.63	A16S
ATOM	29292	O3*	G	A1385	205.561	123.069	-11.519	1.00	57.63	A16S
ATOM	29293	P	G	A1386	204.051	123.002	-12.059	1.00	57.73	A16S
ATOM	29294	O1P	G	A1386	203.247	122.416	-10.948	1.00	49.77	A16S
ATOM	29295	O2P	G	A1386	204.022	122.364	-13.418	1.00	49.77	A16S
ATOM	29296	O5*	G	A1386	203.676	124.542	-12.223	1.00	57.73	A16S
ATOM	29297	C5*	G	A1386	203.828	125.425	-11.102	1.00	57.73	A16S
ATOM	29298	C4*	G	A1386	203.699	126.859	-11.521	1.00	57.73	A16S
ATOM	29299	O4*	G	A1386	204.733	127.176	-12.476	1.00	57.73	A16S
ATOM	29300	C1*	G	A1386	204.277	128.215	-13.318	1.00	57.73	A16S
ATOM	29301	N9	G	A1386	204.310	127.791	-14.710	1.00	49.77	A16S
ATOM	29302	C4	G	A1386	204.134	128.631	-15.776	1.00	49.77	A16S
ATOM	29303	N3	G	A1386	203.935	129.961	-15.698	1.00	49.77	A16S
ATOM	29304	C2	G	A1386	203.802	130.512	-16.886	1.00	49.77	A16S
ATOM	29305	N2	G	A1386	203.619	131.840	-16.980	1.00	49.77	A16S
ATOM	29306	N1	G	A1386	203.844	129.807	-18.064	1.00	49.77	A16S
ATOM	29307	C6	G	A1386	204.035	128.432	-18.166	1.00	49.77	A16S
ATOM	29308	O6	G	A1386	204.037	127.891	-19.277	1.00	49.77	A16S
ATOM	29309	C5	G	A1386	204.198	127.832	-16.888	1.00	49.77	A16S
ATOM	29310	N7	G	A1386	204.423	126.507	-16.530	1.00	49.77	A16S
ATOM	29311	C8	G	A1386	204.485	126.532	-15.226	1.00	49.77	A16S
ATOM	29312	C2*	G	A1386	202.835	128.534	-12.946	1.00	57.73	A16S
ATOM	29313	O2*	G	A1386	202.785	129.710	-12.158	1.00	57.73	A16S
ATOM	29314	C3*	G	A1386	202.419	127.261	-12.228	1.00	57.73	A16S
ATOM	29315	O3*	G	A1386	201.332	127.505	-11.356	1.00	57.73	A16S
ATOM	29316	P	G	A1387	199.838	127.576	-11.956	1.00	51.62	A16S
ATOM	29317	O1P	G	A1387	198.923	127.458	-10.776	1.00	45.45	A16S
ATOM	29318	O2P	G	A1387	199.712	126.610	-13.085	1.00	45.45	A16S
ATOM	29319	O5*	G	A1387	199.724	129.036	-12.582	1.00	51.62	A16S
ATOM	29320	C5*	G	A1387	199.767	130.190	-11.744	1.00	51.62	A16S
ATOM	29321	C4*	G	A1387	199.466	131.417	-12.551	1.00	51.62	A16S
ATOM	29322	O4*	G	A1387	200.544	131.646	-13.494	1.00	51.62	A16S
ATOM	29323	C1*	G	A1387	200.018	132.160	-14.710	1.00	51.62	A16S
ATOM	29324	N9	G	A1387	200.277	131.179	-15.761	1.00	45.45	A16S
ATOM	29325	C4	G	A1387	200.179	131.379	-17.121	1.00	45.45	A16S
ATOM	29326	N3	G	A1387	199.869	132.537	-17.732	1.00	45.45	A16S
ATOM	29327	C2	G	A1387	199.845	132.406	-19.048	1.00	45.45	A16S
ATOM	29328	N2	G	A1387	199.582	133.462	-19.814	1.00	45.45	A16S
ATOM	29329	N1	G	A1387	200.087	131.235	-19.710	1.00	45.45	A16S
ATOM	29330	C6	G	A1387	200.406	130.035	-19.103	1.00	45.45	A16S

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ATOM	29331	O6	G	A1387	200.606	129.037	-19.793	1.00	45.45	A16S
ATOM	29332	C5	G	A1387	200.451	130.158	-17.690	1.00	45.45	A16S
ATOM	29333	N7	G	A1387	200.739	129.213	-16.714	1.00	45.45	A16S
ATOM	29334	C8	G	A1387	200.629	129.863	-15.589	1.00	45.45	A16S
ATOM	29335	C2*	G	A1387	198.509	132.343	-14.513	1.00	51.62	A16S
ATOM	29336	O2*	G	A1387	198.172	133.671	-14.133	1.00	51.62	A16S
ATOM	29337	C3*	G	A1387	198.226	131.325	-13.420	1.00	51.62	A16S
ATOM	29338	O3*	G	A1387	197.023	131.607	-12.734	1.00	51.62	A16S
ATOM	29339	P	C	A1388	195.654	130.946	-13.252	1.00	40.66	A16S
ATOM	29340	O1P	C	A1388	194.598	131.232	-12.240	1.00	64.46	A16S
ATOM	29341	O2P	C	A1388	195.947	129.527	-13.616	1.00	64.46	A16S
ATOM	29342	O5*	C	A1388	195.312	131.775	-14.569	1.00	40.66	A16S
ATOM	29343	C5*	C	A1388	194.981	133.154	-14.477	1.00	40.66	A16S
ATOM	29344	C4*	C	A1388	194.597	133.684	-15.823	1.00	40.66	A16S
ATOM	29345	O4*	C	A1388	195.770	133.704	-16.675	1.00	40.66	A16S
ATOM	29346	C1*	C	A1388	195.394	133.404	-18.017	1.00	40.66	A16S
ATOM	29347	N1	C	A1388	196.034	132.129	-18.414	1.00	64.46	A16S
ATOM	29348	C6	C	A1388	196.436	131.219	-17.477	1.00	64.46	A16S
ATOM	29349	C2	C	A1388	196.206	131.862	-19.768	1.00	64.46	A16S
ATOM	29350	O2	C	A1388	195.841	132.709	-20.594	1.00	64.46	A16S
ATOM	29351	N3	C	A1388	196.762	130.691	-20.145	1.00	64.46	A16S
ATOM	29352	C4	C	A1388	197.140	129.807	-19.222	1.00	64.46	A16S
ATOM	29353	N4	C	A1388	197.675	128.660	-19.635	1.00	64.46	A16S
ATOM	29354	C5	C	A1388	196.986	130.058	-17.835	1.00	64.46	A16S
ATOM	29355	C2*	C	A1388	193.870	133.275	-18.047	1.00	40.66	A16S
ATOM	29356	O2*	C	A1388	193.279	134.502	-18.451	1.00	40.66	A16S
ATOM	29357	C3*	C	A1388	193.583	132.863	-16.605	1.00	40.66	A16S
ATOM	29358	O3*	C	A1388	192.244	133.091	-16.214	1.00	40.66	A16S
ATOM	29359	P	C	A1389	191.165	131.908	-16.365	1.00	47.71	A16S
ATOM	29360	O1P	C	A1389	189.953	132.311	-15.612	1.00	59.50	A16S
ATOM	29361	O2P	C	A1389	191.831	130.618	-16.034	1.00	59.50	A16S
ATOM	29362	O5*	C	A1389	190.799	131.946	-17.913	1.00	47.71	A16S
ATOM	29363	C5*	C	A1389	190.109	133.070	-18.460	1.00	47.71	A16S
ATOM	29364	C4*	C	A1389	190.002	132.934	-19.951	1.00	47.71	A16S
ATOM	29365	O4*	C	A1389	191.341	132.924	-20.506	1.00	47.71	A16S
ATOM	29366	C1*	C	A1389	191.395	132.050	-21.627	1.00	47.71	A16S
ATOM	29367	N1	C	A1389	192.315	130.941	-21.320	1.00	59.50	A16S
ATOM	29368	C6	C	A1389	192.501	130.522	-20.033	1.00	59.50	A16S
ATOM	29369	C2	C	A1389	192.989	130.310	-22.372	1.00	59.50	A16S
ATOM	29370	O2	C	A1389	192.799	130.706	-23.540	1.00	59.50	A16S
ATOM	29371	N3	C	A1389	193.824	129.287	-22.095	1.00	59.50	A16S
ATOM	29372	C4	C	A1389	193.993	128.886	-20.835	1.00	59.50	A16S
ATOM	29373	N4	C	A1389	194.821	127.866	-20.608	1.00	59.50	A16S
ATOM	29374	C5	C	A1389	193.320	129.509	-19.750	1.00	59.50	A16S
ATOM	29375	C2*	C	A1389	189.989	131.513	-21.857	1.00	47.71	A16S
ATOM	29376	O2*	C	A1389	189.345	132.276	-22.861	1.00	47.71	A16S
ATOM	29377	C3*	C	A1389	189.397	131.637	-20.457	1.00	47.71	A16S
ATOM	29378	O3*	C	A1389	187.986	131.589	-20.437	1.00	47.71	A16S
ATOM	29379	P	U	A1390	187.268	130.172	-20.203	1.00	53.29	A16S
ATOM	29380	O1P	U	A1390	185.798	130.381	-20.143	1.00	49.80	A16S
ATOM	29381	O2P	U	A1390	187.970	129.480	-19.088	1.00	49.80	A16S
ATOM	29382	O5*	U	A1390	187.562	129.363	-21.539	1.00	53.29	A16S
ATOM	29383	C5*	U	A1390	187.258	129.923	-22.831	1.00	53.29	A16S
ATOM	29384	C4*	U	A1390	187.796	129.024	-23.914	1.00	53.29	A16S
ATOM	29385	O4*	U	A1390	189.241	128.945	-23.797	1.00	53.29	A16S
ATOM	29386	C1*	U	A1390	189.685	127.653	-24.178	1.00	53.29	A16S
ATOM	29387	N1	U	A1390	190.434	127.033	-23.070	1.00	49.80	A16S
ATOM	29388	C6	U	A1390	190.271	127.413	-21.763	1.00	49.80	A16S
ATOM	29389	C2	U	A1390	191.314	126.026	-23.398	1.00	49.80	A16S
ATOM	29390	O2	U	A1390	191.501	125.672	-24.541	1.00	49.80	A16S
ATOM	29391	N3	U	A1390	191.969	125.446	-22.342	1.00	49.80	A16S
ATOM	29392	C4	U	A1390	191.844	125.762	-21.014	1.00	49.80	A16S
ATOM	29393	O4	U	A1390	192.459	125.098	-20.169	1.00	49.80	A16S
ATOM	29394	C5	U	A1390	190.930	126.826	-20.749	1.00	49.80	A16S
ATOM	29395	C2*	U	A1390	188.455	126.845	-24.579	1.00	53.29	A16S
ATOM	29396	O2*	U	A1390	188.285	126.942	-25.977	1.00	53.29	A16S
ATOM	29397	C3*	U	A1390	187.356	127.574	-23.828	1.00	53.29	A16S
ATOM	29398	O3*	U	A1390	186.097	127.367	-24.421	1.00	53.29	A16S
ATOM	29399	P	U	A1391	185.167	126.172	-23.890	1.00	48.87	A16S
ATOM	29400	O1P	U	A1391	183.818	126.406	-24.474	1.00	47.88	A16S
ATOM	29401	O2P	U	A1391	185.323	126.042	-22.405	1.00	47.88	A16S
ATOM	29402	O5*	U	A1391	185.797	124.873	-24.567	1.00	48.87	A16S
ATOM	29403	C5*	U	A1391	185.808	124.713	-25.995	1.00	48.87	A16S
ATOM	29404	C4*	U	A1391	186.576	123.472	-26.370	1.00	48.87	A16S
ATOM	29405	O4*	U	A1391	187.970	123.629	-26.008	1.00	48.87	A16S
ATOM	29406	C1*	U	A1391	188.501	122.377	-25.620	1.00	48.87	A16S
ATOM	29407	N1	U	A1391	189.006	122.494	-24.247	1.00	47.88	A16S

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ATOM	29408	C6	U	A1391	188.554	123.471	-23.406	1.00	47.88	A16S
ATOM	29409	C2	U	A1391	189.959	121.586	-23.833	1.00	47.88	A16S
ATOM	29410	O2	U	A1391	190.373	120.674	-24.545	1.00	47.88	A16S
ATOM	29411	N3	U	A1391	190.411	121.775	-22.554	1.00	47.88	A16S
ATOM	29412	C4	U	A1391	190.016	122.755	-21.673	1.00	47.88	A16S
ATOM	29413	O4	U	A1391	190.644	122.909	-20.628	1.00	47.88	A16S
ATOM	29414	C5	U	A1391	189.011	123.625	-22.168	1.00	47.88	A16S
ATOM	29415	C2*	U	A1391	187.398	121.329	-25.754	1.00	48.87	A16S
ATOM	29416	O2*	U	A1391	187.538	120.678	-26.999	1.00	48.87	A16S
ATOM	29417	C3*	U	A1391	186.144	122.189	-25.680	1.00	48.87	A16S
ATOM	29418	O3*	U	A1391	185.060	121.589	-26.367	1.00	48.87	A16S
ATOM	29419	P	G	A1392	184.098	120.559	-25.592	1.00	41.10	A16S
ATOM	29420	O1P	G	A1392	182.980	120.281	-26.545	1.00	45.63	A16S
ATOM	29421	O2P	G	A1392	183.793	121.067	-24.227	1.00	45.63	A16S
ATOM	29422	O5*	G	A1392	185.011	119.268	-25.417	1.00	41.10	A16S
ATOM	29423	C5*	G	A1392	185.427	118.520	-26.565	1.00	41.10	A16S
ATOM	29424	C4*	G	A1392	186.254	117.340	-26.139	1.00	41.10	A16S
ATOM	29425	O4*	G	A1392	187.570	117.785	-25.731	1.00	41.10	A16S
ATOM	29426	C1*	G	A1392	188.020	116.994	-24.648	1.00	41.10	A16S
ATOM	29427	N9	G	A1392	188.184	117.881	-23.507	1.00	45.63	A16S
ATOM	29428	C4	G	A1392	189.094	117.767	-22.495	1.00	45.63	A16S
ATOM	29429	N3	G	A1392	190.011	116.799	-22.364	1.00	45.63	A16S
ATOM	29430	C2	G	A1392	190.765	116.985	-21.299	1.00	45.63	A16S
ATOM	29431	N2	G	A1392	191.746	116.148	-21.026	1.00	45.63	A16S
ATOM	29432	N1	G	A1392	190.617	118.020	-20.420	1.00	45.63	A16S
ATOM	29433	C6	G	A1392	189.670	119.023	-20.529	1.00	45.63	A16S
ATOM	29434	O6	G	A1392	189.613	119.913	-19.677	1.00	45.63	A16S
ATOM	29435	C5	G	A1392	188.866	118.849	-21.676	1.00	45.63	A16S
ATOM	29436	N7	G	A1392	187.820	119.621	-22.158	1.00	45.63	A16S
ATOM	29437	C8	G	A1392	187.446	119.008	-23.243	1.00	45.63	A16S
ATOM	29438	C2*	G	A1392	186.960	115.921	-24.385	1.00	41.10	A16S
ATOM	29439	O2*	G	A1392	187.254	114.755	-25.121	1.00	41.10	A16S
ATOM	29440	C3*	G	A1392	185.715	116.576	-24.945	1.00	41.10	A16S
ATOM	29441	O3*	G	A1392	184.766	115.602	-25.315	1.00	41.10	A16S
ATOM	29442	P	U	A1393	183.651	115.157	-24.255	1.00	43.42	A16S
ATOM	29443	O1P	U	A1393	182.707	114.277	-24.996	1.00	44.67	A16S
ATOM	29444	O2P	U	A1393	183.134	116.376	-23.555	1.00	44.67	A16S
ATOM	29445	O5*	U	A1393	184.465	114.291	-23.195	1.00	43.42	A16S
ATOM	29446	C5*	U	A1393	185.095	113.078	-23.600	1.00	43.42	A16S
ATOM	29447	C4*	U	A1393	185.900	112.496	-22.470	1.00	43.42	A16S
ATOM	29448	O4*	U	A1393	187.087	113.284	-22.220	1.00	43.42	A16S
ATOM	29449	C1*	U	A1393	187.417	113.210	-20.849	1.00	43.42	A16S
ATOM	29450	N1	U	A1393	187.427	114.563	-20.289	1.00	44.67	A16S
ATOM	29451	C6	U	A1393	186.901	115.619	-20.963	1.00	44.67	A16S
ATOM	29452	C2	U	A1393	187.968	114.721	-19.033	1.00	44.67	A16S
ATOM	29453	O2	U	A1393	188.490	113.799	-18.412	1.00	44.67	A16S
ATOM	29454	N3	U	A1393	187.880	115.988	-18.525	1.00	44.67	A16S
ATOM	29455	C4	U	A1393	187.325	117.076	-19.131	1.00	44.67	A16S
ATOM	29456	O4	U	A1393	187.143	118.099	-18.477	1.00	44.67	A16S
ATOM	29457	C5	U	A1393	186.835	116.834	-20.443	1.00	44.67	A16S
ATOM	29458	C2*	U	A1393	186.376	112.331	-20.155	1.00	43.42	A16S
ATOM	29459	O2*	U	A1393	186.946	111.052	-20.019	1.00	43.42	A16S
ATOM	29460	C3*	U	A1393	185.200	112.399	-21.129	1.00	43.42	A16S
ATOM	29461	O3*	U	A1393	184.379	111.237	-21.116	1.00	43.42	A16S
ATOM	29462	P	A	A1394	183.293	111.032	-19.952	1.00	37.88	A16S
ATOM	29463	O1P	A	A1394	182.367	109.925	-20.357	1.00	44.26	A16S
ATOM	29464	O2P	A	A1394	182.735	112.364	-19.582	1.00	44.26	A16S
ATOM	29465	O5*	A	A1394	184.146	110.479	-18.735	1.00	37.88	A16S
ATOM	29466	C5*	A	A1394	183.498	109.803	-17.664	1.00	37.88	A16S
ATOM	29467	C4*	A	A1394	184.095	108.441	-17.484	1.00	37.88	A16S
ATOM	29468	O4*	A	A1394	183.806	107.624	-18.644	1.00	37.88	A16S
ATOM	29469	C1*	A	A1394	185.011	107.093	-19.139	1.00	37.88	A16S
ATOM	29470	N9	A	A1394	184.923	107.000	-20.588	1.00	44.26	A16S
ATOM	29471	C4	A	A1394	185.446	105.975	-21.327	1.00	44.26	A16S
ATOM	29472	N3	A	A1394	186.131	104.915	-20.866	1.00	44.26	A16S
ATOM	29473	C2	A	A1394	186.481	104.127	-21.863	1.00	44.26	A16S
ATOM	29474	N1	A	A1394	186.239	104.267	-23.173	1.00	44.26	A16S
ATOM	29475	C6	A	A1394	185.545	105.341	-23.596	1.00	44.26	A16S
ATOM	29476	N6	A	A1394	185.299	105.469	-24.895	1.00	44.26	A16S
ATOM	29477	C5	A	A1394	185.124	106.253	-22.637	1.00	44.26	A16S
ATOM	29478	N7	A	A1394	184.418	107.442	-22.728	1.00	44.26	A16S
ATOM	29479	C8	A	A1394	184.330	107.848	-21.485	1.00	44.26	A16S
ATOM	29480	C2*	A	A1394	186.120	108.030	-18.679	1.00	37.88	A16S
ATOM	29481	O2*	A	A1394	187.369	107.375	-18.638	1.00	37.88	A16S
ATOM	29482	C3*	A	A1394	185.610	108.435	-17.307	1.00	37.88	A16S
ATOM	29483	O3*	A	A1394	185.956	107.450	-16.347	1.00	37.88	A16S
ATOM	29484	P	C	A1395	185.916	107.836	-14.788	1.00	35.73	A16S

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ATOM	29485	O1P	C	A1395	185.808	106.550	-13.985	1.00	41.08	A16S
ATOM	29486	O2P	C	A1395	184.855	108.903	-14.667	1.00	41.08	A16S
ATOM	29487	O5*	C	A1395	187.309	108.559	-14.520	1.00	35.73	A16S
ATOM	29488	C5*	C	A1395	188.550	107.836	-14.556	1.00	35.73	A16S
ATOM	29489	C4*	C	A1395	189.663	108.751	-14.134	1.00	35.73	A16S
ATOM	29490	O4*	C	A1395	189.770	109.828	-15.093	1.00	35.73	A16S
ATOM	29491	C1*	C	A1395	190.016	111.043	-14.417	1.00	35.73	A16S
ATOM	29492	N1	C	A1395	188.995	112.019	-14.822	1.00	41.08	A16S
ATOM	29493	C6	C	A1395	187.839	111.628	-15.440	1.00	41.08	A16S
ATOM	29494	C2	C	A1395	189.236	113.368	-14.571	1.00	41.08	A16S
ATOM	29495	O2	C	A1395	190.297	113.691	-13.998	1.00	41.08	A16S
ATOM	29496	N3	C	A1395	188.318	114.287	-14.951	1.00	41.08	A16S
ATOM	29497	C4	C	A1395	187.198	113.896	-15.554	1.00	41.08	A16S
ATOM	29498	N4	C	A1395	186.329	114.836	-15.911	1.00	41.08	A16S
ATOM	29499	C5	C	A1395	186.923	112.524	-15.818	1.00	41.08	A16S
ATOM	29500	C2*	C	A1395	190.091	110.765	-12.914	1.00	35.73	A16S
ATOM	29501	O2*	C	A1395	191.444	110.719	-12.523	1.00	35.73	A16S
ATOM	29502	C3*	C	A1395	189.382	109.422	-12.804	1.00	35.73	A16S
ATOM	29503	O3*	C	A1395	189.924	108.607	-11.793	1.00	35.73	A16S
ATOM	29504	P	A	A1396	189.031	108.231	-10.527	1.00	39.75	A16S
ATOM	29505	O1P	A	A1396	189.800	107.268	-9.687	1.00	41.37	A16S
ATOM	29506	O2P	A	A1396	187.640	107.888	-10.988	1.00	41.37	A16S
ATOM	29507	O5*	A	A1396	188.951	109.599	-9.732	1.00	39.75	A16S
ATOM	29508	C5*	A	A1396	190.127	110.190	-9.196	1.00	39.75	A16S
ATOM	29509	C4*	A	A1396	189.770	111.441	-8.452	1.00	39.75	A16S
ATOM	29510	O4*	A	A1396	189.272	112.429	-9.385	1.00	39.75	A16S
ATOM	29511	C1*	A	A1396	188.056	112.948	-8.917	1.00	39.75	A16S
ATOM	29512	N9	A	A1396	187.260	113.378	-10.062	1.00	41.37	A16S
ATOM	29513	C4	A	A1396	186.804	114.656	-10.259	1.00	41.37	A16S
ATOM	29514	N3	A	A1396	186.954	115.704	-9.435	1.00	41.37	A16S
ATOM	29515	C2	A	A1396	186.429	116.799	-9.978	1.00	41.37	A16S
ATOM	29516	N1	A	A1396	185.812	116.949	-11.159	1.00	41.37	A16S
ATOM	29517	C6	A	A1396	185.668	115.866	-11.951	1.00	41.37	A16S
ATOM	29518	N6	A	A1396	185.044	116.009	-13.119	1.00	41.37	A16S
ATOM	29519	C5	A	A1396	186.186	114.651	-11.494	1.00	41.37	A16S
ATOM	29520	N7	A	A1396	186.214	113.385	-12.051	1.00	41.37	A16S
ATOM	29521	C8	A	A1396	186.854	112.665	-11.158	1.00	41.37	A16S
ATOM	29522	C2*	A	A1396	187.457	111.865	-8.041	1.00	39.75	A16S
ATOM	29523	O2*	A	A1396	186.615	112.502	-7.118	1.00	39.75	A16S
ATOM	29524	C3*	A	A1396	188.706	111.290	-7.380	1.00	39.75	A16S
ATOM	29525	O3*	A	A1396	189.087	112.115	-6.299	1.00	39.75	A16S
ATOM	29526	P	C	A1397	189.275	111.476	-4.842	1.00	67.34	A16S
ATOM	29527	O1P	C	A1397	189.269	112.632	-3.902	1.00	76.03	A16S
ATOM	29528	O2P	C	A1397	188.304	110.372	-4.656	1.00	76.03	A16S
ATOM	29529	O5*	C	A1397	190.729	110.824	-4.874	1.00	72.57	A16S
ATOM	29530	C5*	C	A1397	191.868	111.538	-5.404	1.00	72.57	A16S
ATOM	29531	C4*	C	A1397	193.143	110.853	-4.978	1.00	72.57	A16S
ATOM	29532	O4*	C	A1397	193.297	110.999	-3.547	1.00	72.57	A16S
ATOM	29533	C1*	C	A1397	193.878	109.825	-3.005	1.00	72.57	A16S
ATOM	29534	N1	C	A1397	193.046	109.350	-1.884	1.00	120.97	A16S
ATOM	29535	C6	C	A1397	191.845	108.730	-2.109	1.00	120.97	A16S
ATOM	29536	C2	C	A1397	193.515	109.532	-0.569	1.00	120.97	A16S
ATOM	29537	O2	C	A1397	194.596	110.125	-0.383	1.00	120.97	A16S
ATOM	29538	N3	C	A1397	192.776	109.064	0.462	1.00	120.97	A16S
ATOM	29539	C4	C	A1397	191.612	108.451	0.228	1.00	120.97	A16S
ATOM	29540	N4	C	A1397	190.922	108.001	1.278	1.00	120.97	A16S
ATOM	29541	C5	C	A1397	191.104	108.270	-1.093	1.00	120.97	A16S
ATOM	29542	C2*	C	A1397	194.085	108.803	-4.129	1.00	72.57	A16S
ATOM	29543	O2*	C	A1397	195.450	108.698	-4.473	1.00	72.57	A16S
ATOM	29544	C3*	C	A1397	193.179	109.349	-5.224	1.00	72.57	A16S
ATOM	29545	O3*	C	A1397	193.561	109.020	-6.567	1.00	72.57	A16S
ATOM	29546	P	A	A1398	195.043	109.365	-7.123	1.00	49.32	A16S
ATOM	29547	O1P	A	A1398	195.796	108.082	-7.214	1.00	57.28	A16S
ATOM	29548	O2P	A	A1398	195.653	110.521	-6.390	1.00	57.28	A16S
ATOM	29549	O5*	A	A1398	194.733	109.882	-8.596	1.00	49.32	A16S
ATOM	29550	C5*	A	A1398	195.116	111.200	-8.992	1.00	49.32	A16S
ATOM	29551	C4*	A	A1398	194.082	111.793	-9.900	1.00	49.32	A16S
ATOM	29552	O4*	A	A1398	192.946	112.269	-9.134	1.00	49.32	A16S
ATOM	29553	C1*	A	A1398	192.445	113.469	-9.714	1.00	49.32	A16S
ATOM	29554	N9	A	A1398	192.569	114.554	-8.739	1.00	57.28	A16S
ATOM	29555	C4	A	A1398	191.922	115.770	-8.790	1.00	57.28	A16S
ATOM	29556	N3	A	A1398	191.031	116.183	-9.705	1.00	57.28	A16S
ATOM	29557	C2	A	A1398	190.629	117.421	-9.439	1.00	57.28	A16S
ATOM	29558	N1	A	A1398	190.992	118.234	-8.446	1.00	57.28	A16S
ATOM	29559	C6	A	A1398	191.894	117.792	-7.552	1.00	57.28	A16S
ATOM	29560	N6	A	A1398	192.268	118.610	-6.577	1.00	57.28	A16S
ATOM	29561	C5	A	A1398	192.390	116.494	-7.712	1.00	57.28	A16S

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ATOM	29562	N7	A	A1398	193.301	115.749	-6.978	1.00	57.28	A16S
ATOM	29563	C8	A	A1398	193.366	114.606	-7.622	1.00	57.28	A16S
ATOM	29564	C2*	A	A1398	193.313	113.787	-10.931	1.00	49.32	A16S
ATOM	29565	O2*	A	A1398	192.736	113.363	-12.155	1.00	49.32	A16S
ATOM	29566	C3*	A	A1398	194.583	113.043	-10.576	1.00	49.32	A16S
ATOM	29567	O3*	A	A1398	195.354	112.736	-11.693	1.00	49.32	A16S
ATOM	29568	P	C	A1399	196.605	113.656	-12.037	1.00	41.38	A16S
ATOM	29569	O1P	C	A1399	197.398	113.890	-10.791	1.00	66.92	A16S
ATOM	29570	O2P	C	A1399	196.086	114.808	-12.818	1.00	66.92	A16S
ATOM	29571	O5*	C	A1399	197.435	112.735	-13.026	1.00	41.38	A16S
ATOM	29572	C5*	C	A1399	197.954	111.452	-12.619	1.00	41.38	A16S
ATOM	29573	C4*	C	A1399	198.541	110.757	-13.821	1.00	41.38	A16S
ATOM	29574	O4*	C	A1399	197.457	110.242	-14.641	1.00	41.38	A16S
ATOM	29575	C1*	C	A1399	197.548	110.801	-15.931	1.00	41.38	A16S
ATOM	29576	N1	C	A1399	196.193	110.879	-16.499	1.00	66.92	A16S
ATOM	29577	C6	C	A1399	195.367	111.933	-16.236	1.00	66.92	A16S
ATOM	29578	C2	C	A1399	195.762	109.839	-17.321	1.00	66.92	A16S
ATOM	29579	O2	C	A1399	196.541	108.911	-17.570	1.00	66.92	A16S
ATOM	29580	N3	C	A1399	194.514	109.870	-17.836	1.00	66.92	A16S
ATOM	29581	C4	C	A1399	193.714	110.901	-17.574	1.00	66.92	A16S
ATOM	29582	N4	C	A1399	192.490	110.896	-18.106	1.00	66.92	A16S
ATOM	29583	C5	C	A1399	194.131	111.986	-16.754	1.00	66.92	A16S
ATOM	29584	C2*	C	A1399	198.334	112.104	-15.774	1.00	41.38	A16S
ATOM	29585	O2*	C	A1399	198.969	112.515	-16.963	1.00	41.38	A16S
ATOM	29586	C3*	C	A1399	199.345	111.707	-14.708	1.00	41.38	A16S
ATOM	29587	O3*	C	A1399	200.406	111.024	-15.350	1.00	41.38	A16S
ATOM	29588	P	C	A1400	201.818	110.875	-14.612	1.00	39.66	A16S
ATOM	29589	O1P	C	A1400	202.124	112.189	-13.973	1.00	57.57	A16S
ATOM	29590	O2P	C	A1400	202.765	110.301	-15.611	1.00	57.57	A16S
ATOM	29591	O5*	C	A1400	201.558	109.764	-13.495	1.00	39.66	A16S
ATOM	29592	C5*	C	A1400	201.271	108.415	-13.880	1.00	39.66	A16S
ATOM	29593	C4*	C	A1400	201.435	107.483	-12.709	1.00	39.66	A16S
ATOM	29594	O4*	C	A1400	202.747	107.701	-12.136	1.00	39.66	A16S
ATOM	29595	C1*	C	A1400	202.636	107.984	-10.756	1.00	39.66	A16S
ATOM	29596	N1	C	A1400	203.672	108.977	-10.423	1.00	57.57	A16S
ATOM	29597	C6	C	A1400	203.818	110.107	-11.183	1.00	57.57	A16S
ATOM	29598	C2	C	A1400	204.548	108.731	-9.332	1.00	57.57	A16S
ATOM	29599	O2	C	A1400	204.361	107.736	-8.605	1.00	57.57	A16S
ATOM	29600	N3	C	A1400	205.566	109.598	-9.102	1.00	57.57	A16S
ATOM	29601	C4	C	A1400	205.719	110.677	-9.886	1.00	57.57	A16S
ATOM	29602	N4	C	A1400	206.753	111.490	-9.647	1.00	57.57	A16S
ATOM	29603	C5	C	A1400	204.818	110.970	-10.956	1.00	57.57	A16S
ATOM	29604	C2*	C	A1400	201.195	108.432	-10.517	1.00	39.66	A16S
ATOM	29605	O2*	C	A1400	200.791	108.103	-9.199	1.00	39.66	A16S
ATOM	29606	C3*	C	A1400	200.430	107.622	-11.569	1.00	39.66	A16S
ATOM	29607	O3*	C	A1400	200.103	106.328	-11.049	1.00	39.66	A16S
ATOM	29608	P	G	A1401	198.792	105.554	-11.579	1.00	49.15	A16S
ATOM	29609	O1P	G	A1401	198.352	104.612	-10.498	1.00	54.09	A16S
ATOM	29610	O2P	G	A1401	199.064	105.034	-12.950	1.00	54.09	A16S
ATOM	29611	O5*	G	A1401	197.681	106.687	-11.754	1.00	49.15	A16S
ATOM	29612	C5*	G	A1401	196.989	107.251	-10.623	1.00	49.15	A16S
ATOM	29613	C4*	G	A1401	195.594	107.704	-11.019	1.00	49.15	A16S
ATOM	29614	O4*	G	A1401	195.675	108.664	-12.108	1.00	49.15	A16S
ATOM	29615	C1*	G	A1401	194.578	108.481	-12.987	1.00	49.15	A16S
ATOM	29616	N9	G	A1401	195.080	107.903	-14.226	1.00	54.09	A16S
ATOM	29617	C4	G	A1401	194.372	107.735	-15.385	1.00	54.09	A16S
ATOM	29618	N3	G	A1401	193.124	108.181	-15.620	1.00	54.09	A16S
ATOM	29619	C2	G	A1401	192.682	107.809	-16.808	1.00	54.09	A16S
ATOM	29620	N2	G	A1401	191.449	108.162	-17.203	1.00	54.09	A16S
ATOM	29621	N1	G	A1401	193.417	107.061	-17.697	1.00	54.09	A16S
ATOM	29622	C6	G	A1401	194.704	106.591	-17.473	1.00	54.09	A16S
ATOM	29623	O6	G	A1401	195.267	105.907	-18.329	1.00	54.09	A16S
ATOM	29624	C5	G	A1401	195.189	106.989	-16.206	1.00	54.09	A16S
ATOM	29625	N7	G	A1401	196.417	106.762	-15.603	1.00	54.09	A16S
ATOM	29626	C8	G	A1401	196.313	107.337	-14.439	1.00	54.09	A16S
ATOM	29627	C2*	G	A1401	193.658	107.443	-12.343	1.00	49.15	A16S
ATOM	29628	O2*	G	A1401	192.716	108.097	-11.522	1.00	49.15	A16S
ATOM	29629	C3*	G	A1401	194.643	106.632	-11.525	1.00	49.15	A16S
ATOM	29630	O3*	G	A1401	193.980	105.986	-10.463	1.00	49.15	A16S
ATOM	29631	P	C	A1402	193.667	104.417	-10.561	1.00	36.93	A16S
ATOM	29632	O1P	C	A1402	192.838	104.044	-9.379	1.00	56.26	A16S
ATOM	29633	O2P	C	A1402	194.967	103.728	-10.787	1.00	56.26	A16S
ATOM	29634	O5*	C	A1402	192.736	104.273	-11.847	1.00	36.93	A16S
ATOM	29635	C5*	C	A1402	191.422	104.838	-11.851	1.00	36.93	A16S
ATOM	29636	C4*	C	A1402	190.831	104.831	-13.244	1.00	36.93	A16S
ATOM	29637	O4*	C	A1402	191.759	105.439	-14.182	1.00	36.93	A16S
ATOM	29638	C1*	C	A1402	191.589	104.865	-15.466	1.00	36.93	A16S

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ATOM	29639	N1	C	A1402	192.862	104.254	-15.892	1.00	56.26	A16S
ATOM	29640	C6	C	A1402	193.892	104.075	-15.014	1.00	56.26	A16S
ATOM	29641	C2	C	A1402	192.986	103.828	-17.218	1.00	56.26	A16S
ATOM	29642	O2	C	A1402	192.051	104.051	-18.008	1.00	56.26	A16S
ATOM	29643	N3	C	A1402	194.117	103.188	-17.606	1.00	56.26	A16S
ATOM	29644	C4	C	A1402	195.102	102.984	-16.729	1.00	56.26	A16S
ATOM	29645	N4	C	A1402	196.189	102.315	-17.142	1.00	56.26	A16S
ATOM	29646	C5	C	A1402	195.017	103.448	-15.384	1.00	56.26	A16S
ATOM	29647	C2*	C	A1402	190.471	103.825	-15.359	1.00	36.93	A16S
ATOM	29648	O2*	C	A1402	189.267	104.414	-15.812	1.00	36.93	A16S
ATOM	29649	C3*	C	A1402	190.496	103.490	-13.867	1.00	36.93	A16S
ATOM	29650	O3*	C	A1402	189.246	103.005	-13.406	1.00	36.93	A16S
ATOM	29651	P	C	A1403	189.050	101.429	-13.164	1.00	53.09	A16S
ATOM	29652	O1P	C	A1403	187.637	101.160	-12.775	1.00	63.51	A16S
ATOM	29653	O2P	C	A1403	190.150	100.968	-12.283	1.00	63.51	A16S
ATOM	29654	O5*	C	A1403	189.239	100.815	-14.623	1.00	53.09	A16S
ATOM	29655	C5*	C	A1403	188.326	101.175	-15.685	1.00	53.09	A16S
ATOM	29656	C4*	C	A1403	188.872	100.743	-17.029	1.00	53.09	A16S
ATOM	29657	O4*	C	A1403	190.134	101.411	-17.269	1.00	53.09	A16S
ATOM	29658	C1*	C	A1403	191.019	100.535	-17.937	1.00	53.09	A16S
ATOM	29659	N1	C	A1403	192.189	100.310	-17.063	1.00	63.51	A16S
ATOM	29660	C6	C	A1403	192.258	100.878	-15.822	1.00	63.51	A16S
ATOM	29661	C2	C	A1403	193.236	99.510	-17.522	1.00	63.51	A16S
ATOM	29662	O2	C	A1403	193.136	98.977	-18.626	1.00	63.51	A16S
ATOM	29663	N3	C	A1403	194.327	99.330	-16.743	1.00	63.51	A16S
ATOM	29664	C4	C	A1403	194.388	99.898	-15.542	1.00	63.51	A16S
ATOM	29665	N4	C	A1403	195.485	99.703	-14.812	1.00	63.51	A16S
ATOM	29666	C5	C	A1403	193.328	100.695	-15.036	1.00	63.51	A16S
ATOM	29667	C2*	C	A1403	190.240	99.263	-18.278	1.00	53.09	A16S
ATOM	29668	O2*	C	A1403	189.702	99.430	-19.572	1.00	53.09	A16S
ATOM	29669	C3*	C	A1403	189.164	99.260	-17.199	1.00	53.09	A16S
ATOM	29670	O3*	C	A1403	187.985	98.558	-17.599	1.00	53.09	A16S
ATOM	29671	P	C	A1404	187.846	96.976	-17.302	1.00	50.83	A16S
ATOM	29672	O1P	C	A1404	186.392	96.644	-17.133	1.00	44.37	A16S
ATOM	29673	O2P	C	A1404	188.814	96.559	-16.249	1.00	44.37	A16S
ATOM	29674	O5*	C	A1404	188.331	96.322	-18.666	1.00	50.83	A16S
ATOM	29675	C5*	C	A1404	187.724	96.705	-19.907	1.00	50.83	A16S
ATOM	29676	C4*	C	A1404	188.447	96.058	-21.051	1.00	50.83	A16S
ATOM	29677	O4*	C	A1404	189.756	96.660	-21.213	1.00	50.83	A16S
ATOM	29678	C1*	C	A1404	190.695	95.667	-21.579	1.00	50.83	A16S
ATOM	29679	N1	C	A1404	191.679	95.569	-20.492	1.00	44.37	A16S
ATOM	29680	C6	C	A1404	191.336	95.903	-19.207	1.00	44.37	A16S
ATOM	29681	C2	C	A1404	192.970	95.121	-20.787	1.00	44.37	A16S
ATOM	29682	O2	C	A1404	193.254	94.821	-21.961	1.00	44.37	A16S
ATOM	29683	N3	C	A1404	193.871	95.024	-19.786	1.00	44.37	A16S
ATOM	29684	C4	C	A1404	193.522	95.356	-18.539	1.00	44.37	A16S
ATOM	29685	N4	C	A1404	194.440	95.256	-17.593	1.00	44.37	A16S
ATOM	29686	C5	C	A1404	192.215	95.811	-18.213	1.00	44.37	A16S
ATOM	29687	C2*	C	A1404	189.927	94.356	-21.770	1.00	50.83	A16S
ATOM	29688	O2*	C	A1404	189.589	94.187	-23.141	1.00	50.83	A16S
ATOM	29689	C3*	C	A1404	188.725	94.583	-20.863	1.00	50.83	A16S
ATOM	29690	O3*	C	A1404	187.592	93.815	-21.198	1.00	50.83	A16S
ATOM	29691	P	G	A1405	187.275	92.478	-20.374	1.00	55.55	A16S
ATOM	29692	O1P	G	A1405	185.818	92.226	-20.535	1.00	66.44	A16S
ATOM	29693	O2P	G	A1405	187.864	92.567	-19.012	1.00	66.44	A16S
ATOM	29694	O5*	G	A1405	188.097	91.367	-21.156	1.00	55.55	A16S
ATOM	29695	C5*	G	A1405	187.939	91.206	-22.573	1.00	55.55	A16S
ATOM	29696	C4*	G	A1405	189.125	90.478	-23.156	1.00	55.55	A16S
ATOM	29697	O4*	G	A1405	190.283	91.361	-23.207	1.00	55.55	A16S
ATOM	29698	C1*	G	A1405	191.466	90.603	-23.004	1.00	55.55	A16S
ATOM	29699	N9	G	A1405	192.108	91.055	-21.770	1.00	66.44	A16S
ATOM	29700	C4	G	A1405	193.458	91.012	-21.477	1.00	66.44	A16S
ATOM	29701	N3	G	A1405	194.440	90.583	-22.300	1.00	66.44	A16S
ATOM	29702	C2	G	A1405	195.629	90.628	-21.722	1.00	66.44	A16S
ATOM	29703	N2	G	A1405	196.710	90.230	-22.403	1.00	66.44	A16S
ATOM	29704	N1	G	A1405	195.845	91.063	-20.434	1.00	66.44	A16S
ATOM	29705	C6	G	A1405	194.855	91.505	-19.562	1.00	66.44	A16S
ATOM	29706	O6	G	A1405	195.157	91.854	-18.409	1.00	66.44	A16S
ATOM	29707	C5	G	A1405	193.565	91.468	-20.177	1.00	66.44	A16S
ATOM	29708	N7	G	A1405	192.317	91.819	-19.676	1.00	66.44	A16S
ATOM	29709	C8	G	A1405	191.488	91.565	-20.654	1.00	66.44	A16S
ATOM	29710	C2*	G	A1405	191.046	89.133	-22.895	1.00	55.55	A16S
ATOM	29711	O2*	G	A1405	191.063	88.522	-24.178	1.00	55.55	A16S
ATOM	29712	C3*	G	A1405	189.618	89.261	-22.389	1.00	55.55	A16S
ATOM	29713	O3*	G	A1405	188.863	88.083	-22.630	1.00	55.55	A16S
ATOM	29714	P	U	A1406	188.992	86.842	-21.612	1.00	58.17	A16S
ATOM	29715	O1P	U	A1406	187.812	85.979	-21.861	1.00	63.80	A16S

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ATOM	29716	O2P	U	A1406	189.263	87.334	-20.239	1.00	63.80	A16S
ATOM	29717	O5*	U	A1406	190.318	86.089	-22.080	1.00	58.17	A16S
ATOM	29718	C5*	U	A1406	190.551	85.765	-23.471	1.00	58.17	A16S
ATOM	29719	C4*	U	A1406	191.966	85.249	-23.669	1.00	58.17	A16S
ATOM	29720	O4*	U	A1406	192.941	86.307	-23.442	1.00	58.17	A16S
ATOM	29721	C1*	U	A1406	194.128	85.750	-22.892	1.00	58.17	A16S
ATOM	29722	N1	U	A1406	194.445	86.444	-21.632	1.00	63.80	A16S
ATOM	29723	C6	U	A1406	193.483	87.154	-20.954	1.00	63.80	A16S
ATOM	29724	C2	U	A1406	195.751	86.365	-21.141	1.00	63.80	A16S
ATOM	29725	O2	U	A1406	196.645	85.754	-21.702	1.00	63.80	A16S
ATOM	29726	N3	U	A1406	195.969	87.038	-19.966	1.00	63.80	A16S
ATOM	29727	C4	U	A1406	195.049	87.773	-19.248	1.00	63.80	A16S
ATOM	29728	O4	U	A1406	195.407	88.363	-18.225	1.00	63.80	A16S
ATOM	29729	C5	U	A1406	193.732	87.802	-19.814	1.00	63.80	A16S
ATOM	29730	C2*	U	A1406	193.918	84.239	-22.737	1.00	58.17	A16S
ATOM	29731	O2*	U	A1406	194.520	83.564	-23.823	1.00	58.17	A16S
ATOM	29732	C3*	U	A1406	192.396	84.119	-22.747	1.00	58.17	A16S
ATOM	29733	O3*	U	A1406	191.979	82.855	-23.245	1.00	58.17	A16S
ATOM	29734	P	C	A1407	191.628	81.677	-22.213	1.00	62.68	A16S
ATOM	29735	O1P	C	A1407	191.264	80.479	-23.010	1.00	66.38	A16S
ATOM	29736	O2P	C	A1407	190.676	82.209	-21.210	1.00	66.38	A16S
ATOM	29737	O5*	C	A1407	192.992	81.396	-21.444	1.00	62.68	A16S
ATOM	29738	C5*	C	A1407	194.044	80.622	-22.045	1.00	62.68	A16S
ATOM	29739	C4*	C	A1407	195.259	80.625	-21.152	1.00	62.68	A16S
ATOM	29740	O4*	C	A1407	195.700	81.999	-20.976	1.00	62.68	A16S
ATOM	29741	C1*	C	A1407	196.213	82.174	-19.664	1.00	62.68	A16S
ATOM	29742	N1	C	A1407	195.444	83.229	-18.977	1.00	66.38	A16S
ATOM	29743	C6	C	A1407	194.161	83.535	-19.347	1.00	66.38	A16S
ATOM	29744	C2	C	A1407	196.053	83.908	-17.913	1.00	66.38	A16S
ATOM	29745	O2	C	A1407	197.220	83.626	-17.612	1.00	66.38	A16S
ATOM	29746	N3	C	A1407	195.358	84.848	-17.243	1.00	66.38	A16S
ATOM	29747	C4	C	A1407	194.104	85.126	-17.597	1.00	66.38	A16S
ATOM	29748	N4	C	A1407	193.455	86.050	-16.891	1.00	66.38	A16S
ATOM	29749	C5	C	A1407	193.460	84.465	-18.690	1.00	66.38	A16S
ATOM	29750	C2*	C	A1407	196.122	80.833	-18.936	1.00	62.68	A16S
ATOM	29751	O2*	C	A1407	197.372	80.184	-18.991	1.00	62.68	A16S
ATOM	29752	C3*	C	A1407	195.032	80.124	-19.732	1.00	62.68	A16S
ATOM	29753	O3*	C	A1407	195.115	78.709	-19.626	1.00	62.68	A16S
ATOM	29754	P	A	A1408	194.346	77.961	-18.424	1.00	80.60	A16S
ATOM	29755	O1P	A	A1408	194.676	76.514	-18.525	1.00	77.82	A16S
ATOM	29756	O2P	A	A1408	192.918	78.383	-18.408	1.00	77.82	A16S
ATOM	29757	O5*	A	A1408	195.062	78.535	-17.121	1.00	80.60	A16S
ATOM	29758	C5*	A	A1408	196.431	78.204	-16.846	1.00	80.60	A16S
ATOM	29759	C4*	A	A1408	196.845	78.724	-15.494	1.00	80.60	A16S
ATOM	29760	O4*	A	A1408	196.971	80.162	-15.533	1.00	80.60	A16S
ATOM	29761	C1*	A	A1408	196.656	80.699	-14.261	1.00	80.60	A16S
ATOM	29762	N9	A	A1408	195.562	81.656	-14.418	1.00	77.82	A16S
ATOM	29763	C4	A	A1408	195.181	82.595	-13.491	1.00	77.82	A16S
ATOM	29764	N3	A	A1408	195.746	82.834	-12.296	1.00	77.82	A16S
ATOM	29765	C2	A	A1408	195.103	83.812	-11.665	1.00	77.82	A16S
ATOM	29766	N1	A	A1408	194.031	84.515	-12.059	1.00	77.82	A16S
ATOM	29767	C6	A	A1408	193.480	84.237	-13.259	1.00	77.82	A16S
ATOM	29768	N6	A	A1408	192.388	84.909	-13.635	1.00	77.82	A16S
ATOM	29769	C5	A	A1408	194.086	83.239	-14.037	1.00	77.82	A16S
ATOM	29770	N7	A	A1408	193.798	82.734	-15.295	1.00	77.82	A16S
ATOM	29771	C8	A	A1408	194.700	81.802	-15.475	1.00	77.82	A16S
ATOM	29772	C2*	A	A1408	196.282	79.537	-13.338	1.00	80.60	A16S
ATOM	29773	O2*	A	A1408	197.396	79.189	-12.544	1.00	80.60	A16S
ATOM	29774	C3*	A	A1408	195.900	78.454	-14.340	1.00	80.60	A16S
ATOM	29775	O3*	A	A1408	196.082	77.153	-13.810	1.00	80.60	A16S
ATOM	29776	P	C	A1409	194.841	76.395	-13.128	1.00	76.62	A16S
ATOM	29777	O1P	C	A1409	195.328	75.028	-12.790	1.00	94.92	A16S
ATOM	29778	O2P	C	A1409	193.648	76.553	-14.006	1.00	94.92	A16S
ATOM	29779	O5*	C	A1409	194.612	77.192	-11.766	1.00	76.62	A16S
ATOM	29780	C5*	C	A1409	195.602	77.133	-10.735	1.00	76.62	A16S
ATOM	29781	C4*	C	A1409	195.162	77.908	-9.525	1.00	76.62	A16S
ATOM	29782	O4*	C	A1409	195.195	79.330	-9.808	1.00	76.62	A16S
ATOM	29783	C1*	C	A1409	194.167	79.981	-9.079	1.00	76.62	A16S
ATOM	29784	N1	C	A1409	193.236	80.614	-10.039	1.00	94.92	A16S
ATOM	29785	C6	C	A1409	193.153	80.175	-11.332	1.00	94.92	A16S
ATOM	29786	C2	C	A1409	192.414	81.667	-9.597	1.00	94.92	A16S
ATOM	29787	O2	C	A1409	192.519	82.067	-8.429	1.00	94.92	A16S
ATOM	29788	N3	C	A1409	191.531	82.219	-10.457	1.00	94.92	A16S
ATOM	29789	C4	C	A1409	191.453	81.773	-11.712	1.00	94.92	A16S
ATOM	29790	N4	C	A1409	190.564	82.348	-12.523	1.00	94.92	A16S
ATOM	29791	C5	C	A1409	192.283	80.719	-12.192	1.00	94.92	A16S
ATOM	29792	C2*	C	A1409	193.462	78.919	-8.229	1.00	76.62	A16S

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ATOM	29793	O2*	C	A1409	194.018	78.897	-6.927	1.00	76.62	A16S
ATOM	29794	C3*	C	A1409	193.754	77.649	-9.020	1.00	76.62	A16S
ATOM	29795	O3*	C	A1409	193.662	76.473	-8.224	1.00	76.62	A16S
ATOM	29796	P	G	A1410	192.305	75.605	-8.240	1.00	85.15	A16S
ATOM	29797	O1P	G	A1410	192.580	74.344	-7.502	1.00	88.67	A16S
ATOM	29798	O2P	G	A1410	191.816	75.537	-9.644	1.00	88.67	A16S
ATOM	29799	O5*	G	A1410	191.287	76.478	-7.370	1.00	85.15	A16S
ATOM	29800	C5*	G	A1410	191.491	76.631	-5.945	1.00	85.15	A16S
ATOM	29801	C4*	G	A1410	190.417	77.506	-5.318	1.00	85.15	A16S
ATOM	29802	O4*	G	A1410	190.579	78.888	-5.741	1.00	85.15	A16S
ATOM	29803	C1*	G	A1410	189.309	79.516	-5.802	1.00	85.15	A16S
ATOM	29804	N9	G	A1410	189.064	79.940	-7.179	1.00	88.67	A16S
ATOM	29805	C4	G	A1410	188.103	80.829	-7.595	1.00	88.67	A16S
ATOM	29806	N3	G	A1410	187.228	81.477	-6.801	1.00	88.67	A16S
ATOM	29807	C2	G	A1410	186.432	82.270	-7.495	1.00	88.67	A16S
ATOM	29808	N2	G	A1410	185.503	83.005	-6.865	1.00	88.67	A16S
ATOM	29809	N1	G	A1410	186.486	82.407	-8.858	1.00	88.67	A16S
ATOM	29810	C6	G	A1410	187.372	81.741	-9.695	1.00	88.67	A16S
ATOM	29811	O6	G	A1410	187.322	81.924	-10.916	1.00	88.67	A16S
ATOM	29812	C5	G	A1410	188.238	80.898	-8.966	1.00	88.67	A16S
ATOM	29813	N7	G	A1410	189.263	80.073	-9.404	1.00	88.67	A16S
ATOM	29814	C8	G	A1410	189.725	79.527	-8.313	1.00	88.67	A16S
ATOM	29815	C2*	G	A1410	188.261	78.500	-5.342	1.00	85.15	A16S
ATOM	29816	O2*	G	A1410	187.961	78.704	-3.974	1.00	85.15	A16S
ATOM	29817	C3*	G	A1410	188.963	77.175	-5.624	1.00	85.15	A16S
ATOM	29818	O3*	G	A1410	188.436	76.108	-4.838	1.00	85.15	A16S
ATOM	29819	P	C	A1411	187.183	75.261	-5.396	1.00120.31		A16S
ATOM	29820	O1P	C	A1411	186.907	74.143	-4.461	1.00	86.02	A16S
ATOM	29821	O2P	C	A1411	187.422	74.969	-6.832	1.00	86.02	A16S
ATOM	29822	O5*	C	A1411	185.960	76.278	-5.293	1.00120.31		A16S
ATOM	29823	C5*	C	A1411	185.450	76.700	-4.006	1.00120.31		A16S
ATOM	29824	C4*	C	A1411	184.271	77.638	-4.178	1.00120.31		A16S
ATOM	29825	O4*	C	A1411	184.723	78.872	-4.794	1.00120.31		A16S
ATOM	29826	C1*	C	A1411	183.725	79.357	-5.678	1.00120.31		A16S
ATOM	29827	N1	C	A1411	184.276	79.377	-7.052	1.00	86.02	A16S
ATOM	29828	C6	C	A1411	185.238	78.484	-7.440	1.00	86.02	A16S
ATOM	29829	C2	C	A1411	183.786	80.323	-7.966	1.00	86.02	A16S
ATOM	29830	O2	C	A1411	182.924	81.140	-7.591	1.00	86.02	A16S
ATOM	29831	N3	C	A1411	184.265	80.328	-9.230	1.00	86.02	A16S
ATOM	29832	C4	C	A1411	185.198	79.449	-9.594	1.00	86.02	A16S
ATOM	29833	N4	C	A1411	185.638	79.495	-10.851	1.00	86.02	A16S
ATOM	29834	C5	C	A1411	185.721	78.486	-8.687	1.00	86.02	A16S
ATOM	29835	C2*	C	A1411	182.507	78.438	-5.558	1.00120.31		A16S
ATOM	29836	O2*	C	A1411	181.594	78.974	-4.623	1.00120.31		A16S
ATOM	29837	C3*	C	A1411	183.145	77.142	-5.078	1.00120.31		A16S
ATOM	29838	O3*	C	A1411	182.214	76.300	-4.396	1.00120.31		A16S
ATOM	29839	P	C	A1412	181.279	75.295	-5.244	1.00118.38		A16S
ATOM	29840	O1P	C	A1412	180.587	74.382	-4.292	1.00100.08		A16S
ATOM	29841	O2P	C	A1412	182.083	74.717	-6.357	1.00100.08		A16S
ATOM	29842	O5*	C	A1412	180.190	76.259	-5.890	1.00118.38		A16S
ATOM	29843	C5*	C	A1412	179.299	77.034	-5.063	1.00118.38		A16S
ATOM	29844	C4*	C	A1412	178.420	77.904	-5.924	1.00118.38		A16S
ATOM	29845	O4*	C	A1412	179.241	78.901	-6.590	1.00118.38		A16S
ATOM	29846	C1*	C	A1412	178.775	79.101	-7.916	1.00118.38		A16S
ATOM	29847	N1	C	A1412	179.847	78.704	-8.864	1.00100.08		A16S
ATOM	29848	C6	C	A1412	180.834	77.835	-8.486	1.00100.08		A16S
ATOM	29849	C2	C	A1412	179.836	79.229	-10.174	1.00100.08		A16S
ATOM	29850	O2	C	A1412	178.931	80.012	-10.507	1.00100.08		A16S
ATOM	29851	N3	C	A1412	180.812	78.863	-11.041	1.00100.08		A16S
ATOM	29852	C4	C	A1412	181.764	78.012	-10.655	1.00100.08		A16S
ATOM	29853	N4	C	A1412	182.699	77.678	-11.543	1.00100.08		A16S
ATOM	29854	C5	C	A1412	181.800	77.465	-9.340	1.00100.08		A16S
ATOM	29855	C2*	C	A1412	177.501	78.269	-8.079	1.00118.38		A16S
ATOM	29856	O2*	C	A1412	176.365	79.044	-7.758	1.00118.38		A16S
ATOM	29857	C3*	C	A1412	177.728	77.169	-7.059	1.00118.38		A16S
ATOM	29858	O3*	C	A1412	176.528	76.524	-6.665	1.00118.38		A16S
ATOM	29859	P	A	A1413	176.101	75.147	-7.388	1.00	80.39	A16S
ATOM	29860	O1P	A	A1413	175.112	74.454	-6.521	1.00100.52		A16S
ATOM	29861	O2P	A	A1413	177.330	74.422	-7.830	1.00100.52		A16S
ATOM	29862	O5*	A	A1413	175.321	75.625	-8.690	1.00	80.39	A16S
ATOM	29863	C5*	A	A1413	174.097	76.375	-8.581	1.00	80.39	A16S
ATOM	29864	C4*	A	A1413	173.789	77.059	-9.889	1.00	80.39	A16S
ATOM	29865	O4*	A	A1413	174.865	77.973	-10.223	1.00	80.39	A16S
ATOM	29866	C1*	A	A1413	175.033	78.014	-11.626	1.00	80.39	A16S
ATOM	29867	N9	A	A1413	176.380	77.563	-11.955	1.00100.52		A16S
ATOM	29868	C4	A	A1413	176.945	77.651	-13.201	1.00100.52		A16S
ATOM	29869	N3	A	A1413	176.395	78.185	-14.302	1.00100.52		A16S

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ATOM	29870	C2	A	A1413	177.218	78.077	-15.334	1.00100.52	A16S
ATOM	29871	N1	A	A1413	178.435	77.531	-15.392	1.00100.52	A16S
ATOM	29872	C6	A	A1413	178.958	76.996	-14.271	1.00100.52	A16S
ATOM	29873	N6	A	A1413	180.167	76.434	-14.338	1.00100.52	A16S
ATOM	29874	C5	A	A1413	178.186	77.059	-13.097	1.00100.52	A16S
ATOM	29875	N7	A	A1413	178.415	76.626	-11.797	1.00100.52	A16S
ATOM	29876	C8	A	A1413	177.318	76.953	-11.160	1.00100.52	A16S
ATOM	29877	C2*	A	A1413	173.992	77.087	-12.249	1.00 80.39	A16S
ATOM	29878	O2*	A	A1413	172.881	77.859	-12.636	1.00 80.39	A16S
ATOM	29879	C3*	A	A1413	173.680	76.148	-11.096	1.00 80.39	A16S
ATOM	29880	O3*	A	A1413	172.379	75.603	-11.204	1.00 80.39	A16S
ATOM	29881	P	U	A1414	172.143	74.277	-12.080	1.00 67.00	A16S
ATOM	29882	O1P	U	A1414	170.693	73.948	-12.019	1.00 94.17	A16S
ATOM	29883	O2P	U	A1414	173.151	73.253	-11.687	1.00 94.17	A16S
ATOM	29884	O5*	U	A1414	172.464	74.725	-13.571	1.00 67.00	A16S
ATOM	29885	C5*	U	A1414	171.632	75.674	-14.243	1.00 67.00	A16S
ATOM	29886	C4*	U	A1414	172.247	76.059	-15.560	1.00 67.00	A16S
ATOM	29887	O4*	U	A1414	173.619	76.501	-15.352	1.00 67.00	A16S
ATOM	29888	C1*	U	A1414	174.383	76.227	-16.516	1.00 67.00	A16S
ATOM	29889	N1	U	A1414	175.579	75.438	-16.170	1.00 94.17	A16S
ATOM	29890	C6	U	A1414	175.686	74.744	-14.988	1.00 94.17	A16S
ATOM	29891	C2	U	A1414	176.607	75.395	-17.111	1.00 94.17	A16S
ATOM	29892	O2	U	A1414	176.584	76.028	-18.155	1.00 94.17	A16S
ATOM	29893	N3	U	A1414	177.664	74.590	-16.783	1.00 94.17	A16S
ATOM	29894	C4	U	A1414	177.815	73.847	-15.640	1.00 94.17	A16S
ATOM	29895	O4	U	A1414	178.791	73.102	-15.536	1.00 94.17	A16S
ATOM	29896	C5	U	A1414	176.740	73.970	-14.699	1.00 94.17	A16S
ATOM	29897	C2*	U	A1414	173.476	75.488	-17.502	1.00 67.00	A16S
ATOM	29898	O2*	U	A1414	172.983	76.412	-18.451	1.00 67.00	A16S
ATOM	29899	C3*	U	A1414	172.384	74.950	-16.586	1.00 67.00	A16S
ATOM	29900	O3*	U	A1414	171.172	74.711	-17.286	1.00 67.00	A16S
ATOM	29901	P	G	A1415	171.028	73.389	-18.196	1.00 58.77	A16S
ATOM	29902	O1P	G	A1415	169.580	73.226	-18.501	1.00 93.37	A16S
ATOM	29903	O2P	G	A1415	171.768	72.275	-17.547	1.00 93.37	A16S
ATOM	29904	O5*	G	A1415	171.788	73.770	-19.547	1.00 58.77	A16S
ATOM	29905	C5*	G	A1415	171.314	74.859	-20.351	1.00 58.77	A16S
ATOM	29906	C4*	G	A1415	172.054	74.931	-21.665	1.00 58.77	A16S
ATOM	29907	O4*	G	A1415	173.408	75.399	-21.455	1.00 58.77	A16S
ATOM	29908	C1*	G	A1415	174.276	74.804	-22.406	1.00 58.77	A16S
ATOM	29909	N9	G	A1415	175.244	73.991	-21.666	1.00 93.37	A16S
ATOM	29910	C4	G	A1415	176.322	73.295	-22.175	1.00 93.37	A16S
ATOM	29911	N3	G	A1415	176.715	73.260	-23.470	1.00 93.37	A16S
ATOM	29912	C2	G	A1415	177.772	72.480	-23.645	1.00 93.37	A16S
ATOM	29913	N2	G	A1415	178.302	72.329	-24.872	1.00 93.37	A16S
ATOM	29914	N1	G	A1415	178.387	71.789	-22.630	1.00 93.37	A16S
ATOM	29915	C6	G	A1415	177.999	71.810	-21.292	1.00 93.37	A16S
ATOM	29916	O6	G	A1415	178.623	71.143	-20.450	1.00 93.37	A16S
ATOM	29917	C5	G	A1415	176.877	72.643	-21.091	1.00 93.37	A16S
ATOM	29918	N7	G	A1415	176.188	72.943	-19.927	1.00 93.37	A16S
ATOM	29919	C8	G	A1415	175.236	73.747	-20.313	1.00 93.37	A16S
ATOM	29920	C2*	G	A1415	173.395	73.983	-23.354	1.00 58.77	A16S
ATOM	29921	O2*	G	A1415	173.005	74.787	-24.457	1.00 58.77	A16S
ATOM	29922	C3*	G	A1415	172.212	73.648	-22.457	1.00 58.77	A16S
ATOM	29923	O3*	G	A1415	171.040	73.319	-23.188	1.00 58.77	A16S
ATOM	29924	P	G	A1416	170.535	71.793	-23.222	1.00 67.90	A16S
ATOM	29925	O1P	G	A1416	169.121	71.769	-23.672	1.00 82.39	A16S
ATOM	29926	O2P	G	A1416	170.897	71.166	-21.922	1.00 82.39	A16S
ATOM	29927	O5*	G	A1416	171.432	71.136	-24.360	1.00 67.90	A16S
ATOM	29928	C5*	G	A1416	171.475	71.696	-25.682	1.00 67.90	A16S
ATOM	29929	C4*	G	A1416	172.680	71.176	-26.426	1.00 67.90	A16S
ATOM	29930	O4*	G	A1416	173.881	71.636	-25.764	1.00 67.90	A16S
ATOM	29931	C1*	G	A1416	174.880	70.629	-25.821	1.00 67.90	A16S
ATOM	29932	N9	G	A1416	175.245	70.265	-24.456	1.00 82.39	A16S
ATOM	29933	C4	G	A1416	176.218	69.379	-24.087	1.00 82.39	A16S
ATOM	29934	N3	G	A1416	176.997	68.669	-24.926	1.00 82.39	A16S
ATOM	29935	C2	G	A1416	177.845	67.901	-24.273	1.00 82.39	A16S
ATOM	29936	N2	G	A1416	178.696	67.129	-24.959	1.00 82.39	A16S
ATOM	29937	N1	G	A1416	177.918	67.839	-22.897	1.00 82.39	A16S
ATOM	29938	C6	G	A1416	177.115	68.569	-22.017	1.00 82.39	A16S
ATOM	29939	O6	G	A1416	177.253	68.452	-20.788	1.00 82.39	A16S
ATOM	29940	C5	G	A1416	176.211	69.385	-22.706	1.00 82.39	A16S
ATOM	29941	N7	G	A1416	175.247	70.250	-22.219	1.00 82.39	A16S
ATOM	29942	C8	G	A1416	174.696	70.746	-23.290	1.00 82.39	A16S
ATOM	29943	C2*	G	A1416	174.324	69.458	-26.628	1.00 67.90	A16S
ATOM	29944	O2*	G	A1416	174.772	69.592	-27.962	1.00 67.90	A16S
ATOM	29945	C3*	G	A1416	172.820	69.661	-26.469	1.00 67.90	A16S
ATOM	29946	O3*	G	A1416	172.080	69.115	-27.552	1.00 67.90	A16S

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ATOM	29947	P	G	A1417	171.244	67.765	-27.337	1.00103.20	A16S
ATOM	29948	O1P	G	A1417	170.647	67.426	-28.659	1.00 89.66	A16S
ATOM	29949	O2P	G	A1417	170.364	67.936	-26.152	1.00 89.66	A16S
ATOM	29950	O5*	G	A1417	172.356	66.692	-26.953	1.00103.20	A16S
ATOM	29951	C5*	G	A1417	173.403	66.325	-27.879	1.00103.20	A16S
ATOM	29952	C4*	G	A1417	174.393	65.402	-27.202	1.00103.20	A16S
ATOM	29953	O4*	G	A1417	175.094	66.128	-26.161	1.00103.20	A16S
ATOM	29954	C1*	G	A1417	175.294	65.286	-25.039	1.00103.20	A16S
ATOM	29955	N9	G	A1417	174.659	65.912	-23.880	1.00 89.66	A16S
ATOM	29956	C4	G	A1417	175.037	65.779	-22.559	1.00 89.66	A16S
ATOM	29957	N3	G	A1417	176.037	64.999	-22.091	1.00 89.66	A16S
ATOM	29958	C2	G	A1417	176.174	65.100	-20.776	1.00 89.66	A16S
ATOM	29959	N2	G	A1417	177.111	64.377	-20.144	1.00 89.66	A16S
ATOM	29960	N1	G	A1417	175.404	65.915	-19.980	1.00 89.66	A16S
ATOM	29961	C6	G	A1417	174.377	66.738	-20.432	1.00 89.66	A16S
ATOM	29962	O6	G	A1417	173.762	67.461	-19.623	1.00 89.66	A16S
ATOM	29963	C5	G	A1417	174.198	66.619	-21.852	1.00 89.66	A16S
ATOM	29964	N7	G	A1417	173.287	67.235	-22.704	1.00 89.66	A16S
ATOM	29965	C8	G	A1417	173.592	66.782	-23.890	1.00 89.66	A16S
ATOM	29966	C2*	G	A1417	174.768	63.893	-25.392	1.00103.20	A16S
ATOM	29967	O2*	G	A1417	175.852	63.108	-25.845	1.00103.20	A16S
ATOM	29968	C3*	G	A1417	173.765	64.207	-26.499	1.00103.20	A16S
ATOM	29969	O3*	G	A1417	173.589	63.123	-27.410	1.00103.20	A16S
ATOM	29970	P	A	A1418	172.525	61.960	-27.085	1.00109.72	A16S
ATOM	29971	O1P	A	A1418	171.462	62.013	-28.120	1.00108.37	A16S
ATOM	29972	O2P	A	A1418	172.156	62.030	-25.643	1.00108.37	A16S
ATOM	29973	O5*	A	A1418	173.357	60.624	-27.322	1.00109.72	A16S
ATOM	29974	C5*	A	A1418	174.088	60.398	-28.554	1.00109.72	A16S
ATOM	29975	C4*	A	A1418	175.101	59.289	-28.360	1.00109.72	A16S
ATOM	29976	O4*	A	A1418	176.177	59.754	-27.504	1.00109.72	A16S
ATOM	29977	C1*	A	A1418	176.565	58.719	-26.617	1.00109.72	A16S
ATOM	29978	N9	A	A1418	176.296	59.161	-25.253	1.00108.37	A16S
ATOM	29979	C4	A	A1418	176.845	58.635	-24.111	1.00108.37	A16S
ATOM	29980	N3	A	A1418	177.745	57.643	-24.023	1.00108.37	A16S
ATOM	29981	C2	A	A1418	178.040	57.391	-22.751	1.00108.37	A16S
ATOM	29982	N1	A	A1418	177.572	57.973	-21.642	1.00108.37	A16S
ATOM	29983	C6	A	A1418	176.668	58.969	-21.768	1.00108.37	A16S
ATOM	29984	N6	A	A1418	176.199	59.554	-20.662	1.00108.37	A16S
ATOM	29985	C5	A	A1418	176.273	59.331	-23.064	1.00108.37	A16S
ATOM	29986	N7	A	A1418	175.388	60.289	-23.535	1.00108.37	A16S
ATOM	29987	C8	A	A1418	175.441	60.151	-24.835	1.00108.37	A16S
ATOM	29988	C2*	A	A1418	175.750	57.468	-26.955	1.00109.72	A16S
ATOM	29989	O2*	A	A1418	176.518	56.595	-27.749	1.00109.72	A16S
ATOM	29990	C3*	A	A1418	174.535	58.064	-27.658	1.00109.72	A16S
ATOM	29991	O3*	A	A1418	173.915	57.169	-28.577	1.00109.72	A16S
ATOM	29992	P	G	A1419	172.526	56.459	-28.184	1.00149.09	A16S
ATOM	29993	O1P	G	A1419	172.237	55.462	-29.245	1.00132.62	A16S
ATOM	29994	O2P	G	A1419	171.520	57.512	-27.876	1.00132.62	A16S
ATOM	29995	O5*	G	A1419	172.863	55.674	-26.838	1.00149.09	A16S
ATOM	29996	C5*	G	A1419	173.827	54.603	-26.829	1.00149.09	A16S
ATOM	29997	C4*	G	A1419	174.160	54.208	-25.411	1.00149.09	A16S
ATOM	29998	O4*	G	A1419	174.801	55.326	-24.743	1.00149.09	A16S
ATOM	29999	C1*	G	A1419	174.405	55.362	-23.381	1.00149.09	A16S
ATOM	30000	N9	G	A1419	173.702	56.620	-23.138	1.00132.62	A16S
ATOM	30001	C4	G	A1419	173.499	57.230	-21.917	1.00132.62	A16S
ATOM	30002	N3	G	A1419	173.942	56.785	-20.720	1.00132.62	A16S
ATOM	30003	C2	G	A1419	173.568	57.578	-19.726	1.00132.62	A16S
ATOM	30004	N2	G	A1419	173.924	57.285	-18.463	1.00132.62	A16S
ATOM	30005	N1	G	A1419	172.817	58.716	-19.894	1.00132.62	A16S
ATOM	30006	C6	G	A1419	172.347	59.194	-21.114	1.00132.62	A16S
ATOM	30007	O6	G	A1419	171.664	60.232	-21.152	1.00132.62	A16S
ATOM	30008	C5	G	A1419	172.747	58.353	-22.192	1.00132.62	A16S
ATOM	30009	N7	G	A1419	172.499	58.460	-23.554	1.00132.62	A16S
ATOM	30010	C8	G	A1419	173.087	57.417	-24.074	1.00132.62	A16S
ATOM	30011	C2*	G	A1419	173.501	54.152	-23.126	1.00149.09	A16S
ATOM	30012	O2*	G	A1419	174.253	53.084	-22.582	1.00149.09	A16S
ATOM	30013	C3*	G	A1419	172.972	53.861	-24.525	1.00149.09	A16S
ATOM	30014	O3*	G	A1419	172.538	52.510	-24.677	1.00149.09	A16S
ATOM	30015	P	C	A1420	171.035	52.108	-24.261	1.00126.96	A16S
ATOM	30016	O1P	C	A1420	170.802	50.691	-24.644	1.00156.23	A16S
ATOM	30017	O2P	C	A1420	170.117	53.163	-24.762	1.00156.23	A16S
ATOM	30018	O5*	C	A1420	171.055	52.191	-22.673	1.00126.96	A16S
ATOM	30019	C5*	C	A1420	171.848	51.276	-21.902	1.00126.96	A16S
ATOM	30020	C4*	C	A1420	171.668	51.544	-20.430	1.00126.96	A16S
ATOM	30021	O4*	C	A1420	172.265	52.824	-20.093	1.00126.96	A16S
ATOM	30022	C1*	C	A1420	171.492	53.459	-19.085	1.00126.96	A16S
ATOM	30023	N1	C	A1420	170.962	54.728	-19.623	1.00156.23	A16S

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ATOM	30024	C6	C	A1420	170.829	54.922	-20.973	1.00156.23	A16S
ATOM	30025	C2	C	A1420	170.575	55.734	-18.723	1.00156.23	A16S
ATOM	30026	O2	C	A1420	170.720	55.545	-17.501	1.00156.23	A16S
ATOM	30027	N3	C	A1420	170.053	56.885	-19.208	1.00156.23	A16S
ATOM	30028	C4	C	A1420	169.917	57.056	-20.526	1.00156.23	A16S
ATOM	30029	N4	C	A1420	169.387	58.205	-20.954	1.00156.23	A16S
ATOM	30030	C5	C	A1420	170.315	56.057	-21.462	1.00156.23	A16S
ATOM	30031	C2*	C	A1420	170.359	52.508	-18.697	1.00126.96	A16S
ATOM	30032	O2*	C	A1420	170.719	51.757	-17.552	1.00126.96	A16S
ATOM	30033	C3*	C	A1420	170.229	51.665	-19.958	1.00126.96	A16S
ATOM	30034	O3*	C	A1420	169.606	50.412	-19.724	1.00126.96	A16S
ATOM	30035	P	G	A1421	168.008	50.291	-19.862	1.00135.92	A16S
ATOM	30036	O1P	G	A1421	167.645	48.856	-19.713	1.00165.54	A16S
ATOM	30037	O2P	G	A1421	167.582	51.034	-21.080	1.00165.54	A16S
ATOM	30038	O5*	G	A1421	167.465	51.072	-18.587	1.00135.92	A16S
ATOM	30039	C5*	G	A1421	167.719	50.576	-17.264	1.00135.92	A16S
ATOM	30040	C4*	G	A1421	167.068	51.468	-16.244	1.00135.92	A16S
ATOM	30041	O4*	G	A1421	167.747	52.751	-16.221	1.00135.92	A16S
ATOM	30042	C1*	G	A1421	166.803	53.793	-16.013	1.00135.92	A16S
ATOM	30043	N9	G	A1421	166.770	54.634	-17.210	1.00165.54	A16S
ATOM	30044	C4	G	A1421	166.180	55.876	-17.327	1.00165.54	A16S
ATOM	30045	N3	G	A1421	165.554	56.556	-16.341	1.00165.54	A16S
ATOM	30046	C2	G	A1421	165.073	57.712	-16.766	1.00165.54	A16S
ATOM	30047	N2	G	A1421	164.426	58.518	-15.913	1.00165.54	A16S
ATOM	30048	N1	G	A1421	165.191	58.164	-18.058	1.00165.54	A16S
ATOM	30049	C6	G	A1421	165.829	57.482	-19.088	1.00165.54	A16S
ATOM	30050	O6	G	A1421	165.873	57.978	-20.218	1.00165.54	A16S
ATOM	30051	C5	G	A1421	166.356	56.243	-18.646	1.00165.54	A16S
ATOM	30052	N7	G	A1421	167.060	55.267	-19.339	1.00165.54	A16S
ATOM	30053	C8	G	A1421	167.289	54.338	-18.451	1.00165.54	A16S
ATOM	30054	C2*	G	A1421	165.444	53.130	-15.782	1.00135.92	A16S
ATOM	30055	O2*	G	A1421	165.224	52.948	-14.395	1.00135.92	A16S
ATOM	30056	C3*	G	A1421	165.621	51.820	-16.537	1.00135.92	A16S
ATOM	30057	O3*	G	A1421	164.707	50.810	-16.151	1.00135.92	A16S
ATOM	30058	P	G	A1422	163.355	50.608	-16.998	1.00141.26	A16S
ATOM	30059	O1P	G	A1422	162.730	49.351	-16.514	1.00133.63	A16S
ATOM	30060	O2P	G	A1422	163.660	50.768	-18.445	1.00133.63	A16S
ATOM	30061	O5*	G	A1422	162.438	51.826	-16.541	1.00141.26	A16S
ATOM	30062	C5*	G	A1422	162.083	51.984	-15.156	1.00141.26	A16S
ATOM	30063	C4*	G	A1422	161.429	53.323	-14.916	1.00141.26	A16S
ATOM	30064	O4*	G	A1422	162.380	54.396	-15.167	1.00141.26	A16S
ATOM	30065	C1*	G	A1422	161.696	55.531	-15.687	1.00141.26	A16S
ATOM	30066	N9	G	A1422	162.123	55.751	-17.069	1.00133.63	A16S
ATOM	30067	C4	G	A1422	161.881	56.877	-17.824	1.00133.63	A16S
ATOM	30068	N3	G	A1422	161.247	57.992	-17.404	1.00133.63	A16S
ATOM	30069	C2	G	A1422	161.146	58.894	-18.363	1.00133.63	A16S
ATOM	30070	N2	G	A1422	160.545	60.064	-18.115	1.00133.63	A16S
ATOM	30071	N1	G	A1422	161.628	58.715	-19.638	1.00133.63	A16S
ATOM	30072	C6	G	A1422	162.280	57.574	-20.094	1.00133.63	A16S
ATOM	30073	O6	G	A1422	162.666	57.511	-21.268	1.00133.63	A16S
ATOM	30074	C5	G	A1422	162.400	56.599	-19.071	1.00133.63	A16S
ATOM	30075	N7	G	A1422	162.978	55.337	-19.096	1.00133.63	A16S
ATOM	30076	C8	G	A1422	162.797	54.874	-17.889	1.00133.63	A16S
ATOM	30077	C2*	G	A1422	160.209	55.191	-15.685	1.00141.26	A16S
ATOM	30078	O2*	G	A1422	159.606	55.617	-14.478	1.00141.26	A16S
ATOM	30079	C3*	G	A1422	160.255	53.678	-15.808	1.00141.26	A16S
ATOM	30080	O3*	G	A1422	159.028	53.079	-15.451	1.00141.26	A16S
ATOM	30081	P	G	A1423	157.878	52.949	-16.568	1.00136.71	A16S
ATOM	30082	O1P	G	A1423	156.845	52.014	-16.050	1.00123.55	A16S
ATOM	30083	O2P	G	A1423	158.541	52.665	-17.876	1.00123.55	A16S
ATOM	30084	O5*	G	A1423	157.251	54.414	-16.639	1.00136.71	A16S
ATOM	30085	C5*	G	A1423	156.749	55.069	-15.453	1.00136.71	A16S
ATOM	30086	C4*	G	A1423	156.277	56.467	-15.784	1.00136.71	A16S
ATOM	30087	O4*	G	A1423	157.404	57.274	-16.222	1.00136.71	A16S
ATOM	30088	C1*	G	A1423	156.992	58.163	-17.253	1.00136.71	A16S
ATOM	30089	N9	G	A1423	157.725	57.831	-18.476	1.00123.55	A16S
ATOM	30090	C4	G	A1423	157.758	58.575	-19.636	1.00123.55	A16S
ATOM	30091	N3	G	A1423	157.127	59.752	-19.842	1.00123.55	A16S
ATOM	30092	C2	G	A1423	157.347	60.225	-21.059	1.00123.55	A16S
ATOM	30093	N2	G	A1423	156.793	61.392	-21.428	1.00123.55	A16S
ATOM	30094	N1	G	A1423	158.124	59.592	-22.003	1.00123.55	A16S
ATOM	30095	C6	G	A1423	158.784	58.379	-21.815	1.00123.55	A16S
ATOM	30096	O6	G	A1423	159.463	57.895	-22.733	1.00123.55	A16S
ATOM	30097	C5	G	A1423	158.556	57.859	-20.509	1.00123.55	A16S
ATOM	30098	N7	G	A1423	159.018	56.693	-19.912	1.00123.55	A16S
ATOM	30099	C8	G	A1423	158.503	56.718	-18.711	1.00123.55	A16S
ATOM	30100	C2*	G	A1423	155.485	57.987	-17.430	1.00136.71	A16S

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ATOM	30101	O2*	G	A1423	154.794	58.944	-16.652	1.00136.71	A16S
ATOM	30102	C3*	G	A1423	155.288	56.562	-16.931	1.00136.71	A16S
ATOM	30103	O3*	G	A1423	153.955	56.293	-16.538	1.00136.71	A16S
ATOM	30104	P	C	A1424	152.902	55.783	-17.640	1.00140.34	A16S
ATOM	30105	O1P	C	A1424	151.671	55.381	-16.912	1.00118.01	A16S
ATOM	30106	O2P	C	A1424	153.570	54.810	-18.551	1.00118.01	A16S
ATOM	30107	O5*	C	A1424	152.583	57.095	-18.482	1.00140.34	A16S
ATOM	30108	C5*	C	A1424	152.116	58.285	-17.827	1.00140.34	A16S
ATOM	30109	C4*	C	A1424	152.010	59.418	-18.813	1.00140.34	A16S
ATOM	30110	O4*	C	A1424	153.331	59.796	-19.278	1.00140.34	A16S
ATOM	30111	C1*	C	A1424	153.252	60.234	-20.625	1.00140.34	A16S
ATOM	30112	N1	C	A1424	154.119	59.387	-21.459	1.00118.01	A16S
ATOM	30113	C6	C	A1424	154.596	58.191	-21.000	1.00118.01	A16S
ATOM	30114	C2	C	A1424	154.439	59.827	-22.751	1.00118.01	A16S
ATOM	30115	O2	C	A1424	154.002	60.922	-23.142	1.00118.01	A16S
ATOM	30116	N3	C	A1424	155.212	59.050	-23.539	1.00118.01	A16S
ATOM	30117	C4	C	A1424	155.665	57.880	-23.084	1.00118.01	A16S
ATOM	30118	N4	C	A1424	156.421	57.143	-23.904	1.00118.01	A16S
ATOM	30119	C5	C	A1424	155.364	57.413	-21.771	1.00118.01	A16S
ATOM	30120	C2*	C	A1424	151.791	60.140	-21.066	1.00140.34	A16S
ATOM	30121	O2*	C	A1424	151.184	61.411	-20.961	1.00140.34	A16S
ATOM	30122	C3*	C	A1424	151.237	59.115	-20.084	1.00140.34	A16S
ATOM	30123	O3*	C	A1424	149.834	59.232	-19.907	1.00140.34	A16S
ATOM	30124	P	U	A1425	148.848	58.400	-20.865	1.00111.78	A16S
ATOM	30125	O1P	U	A1425	147.456	58.756	-20.488	1.00143.80	A16S
ATOM	30126	O2P	U	A1425	149.272	56.975	-20.857	1.00143.80	A16S
ATOM	30127	O5*	U	A1425	149.141	58.995	-22.313	1.00111.78	A16S
ATOM	30128	C5*	U	A1425	148.886	60.380	-22.599	1.00111.78	A16S
ATOM	30129	C4*	U	A1425	149.268	60.699	-24.019	1.00111.78	A16S
ATOM	30130	O4*	U	A1425	150.706	60.611	-24.177	1.00111.78	A16S
ATOM	30131	C1*	U	A1425	151.011	60.156	-25.484	1.00111.78	A16S
ATOM	30132	N1	U	A1425	151.834	58.938	-25.400	1.00143.80	A16S
ATOM	30133	C6	U	A1425	151.750	58.070	-24.333	1.00143.80	A16S
ATOM	30134	C2	U	A1425	152.701	58.687	-26.450	1.00143.80	A16S
ATOM	30135	O2	U	A1425	152.812	59.432	-27.410	1.00143.80	A16S
ATOM	30136	N3	U	A1425	153.434	57.532	-26.338	1.00143.80	A16S
ATOM	30137	C4	U	A1425	153.396	56.620	-25.308	1.00143.80	A16S
ATOM	30138	O4	U	A1425	154.116	55.618	-25.360	1.00143.80	A16S
ATOM	30139	C5	U	A1425	152.482	56.950	-24.253	1.00143.80	A16S
ATOM	30140	C2*	U	A1425	149.693	59.926	-26.225	1.00111.78	A16S
ATOM	30141	O2*	U	A1425	149.409	61.049	-27.031	1.00111.78	A16S
ATOM	30142	C3*	U	A1425	148.714	59.755	-25.070	1.00111.78	A16S
ATOM	30143	O3*	U	A1425	147.375	60.074	-25.422	1.00111.78	A16S
ATOM	30144	P	C	A1426	146.440	58.946	-26.086	1.00 97.20	A16S
ATOM	30145	O1P	C	A1426	145.035	59.418	-26.001	1.00113.59	A16S
ATOM	30146	O2P	C	A1426	146.804	57.612	-25.534	1.00113.59	A16S
ATOM	30147	O5*	C	A1426	146.850	58.992	-27.618	1.00 97.20	A16S
ATOM	30148	C5*	C	A1426	146.760	60.219	-28.345	1.00 97.20	A16S
ATOM	30149	C4*	C	A1426	147.461	60.084	-29.662	1.00 97.20	A16S
ATOM	30150	O4*	C	A1426	148.885	59.911	-29.448	1.00 97.20	A16S
ATOM	30151	C1*	C	A1426	149.414	59.061	-30.449	1.00 97.20	A16S
ATOM	30152	N1	C	A1426	150.073	57.911	-29.806	1.00113.59	A16S
ATOM	30153	C6	C	A1426	149.767	57.547	-28.525	1.00113.59	A16S
ATOM	30154	C2	C	A1426	151.032	57.190	-30.536	1.00113.59	A16S
ATOM	30155	O2	C	A1426	151.287	57.529	-31.701	1.00113.59	A16S
ATOM	30156	N3	C	A1426	151.654	56.142	-29.955	1.00113.59	A16S
ATOM	30157	C4	C	A1426	151.353	55.800	-28.703	1.00113.59	A16S
ATOM	30158	N4	C	A1426	152.002	54.762	-28.170	1.00113.59	A16S
ATOM	30159	C5	C	A1426	150.377	56.508	-27.939	1.00113.59	A16S
ATOM	30160	C2*	C	A1426	148.264	58.651	-31.371	1.00 97.20	A16S
ATOM	30161	O2*	C	A1426	148.254	59.490	-32.510	1.00 97.20	A16S
ATOM	30162	C3*	C	A1426	147.056	58.870	-30.472	1.00 97.20	A16S
ATOM	30163	O3*	C	A1426	145.860	59.096	-31.195	1.00 97.20	A16S
ATOM	30164	P	U	A1427	144.895	57.856	-31.521	1.00104.64	A16S
ATOM	30165	O1P	U	A1427	143.612	58.423	-32.011	1.00 94.91	A16S
ATOM	30166	O2P	U	A1427	144.891	56.941	-30.343	1.00 94.91	A16S
ATOM	30167	O5*	U	A1427	145.627	57.127	-32.736	1.00104.64	A16S
ATOM	30168	C5*	U	A1427	145.848	57.816	-33.986	1.00104.64	A16S
ATOM	30169	C4*	U	A1427	146.688	56.973	-34.918	1.00104.64	A16S
ATOM	30170	O4*	U	A1427	148.061	56.918	-34.449	1.00104.64	A16S
ATOM	30171	C1*	U	A1427	148.617	55.643	-34.738	1.00104.64	A16S
ATOM	30172	N1	U	A1427	148.994	54.985	-33.476	1.00 94.91	A16S
ATOM	30173	C6	U	A1427	148.448	55.363	-32.268	1.00 94.91	A16S
ATOM	30174	C2	U	A1427	149.918	53.950	-33.542	1.00 94.91	A16S
ATOM	30175	O2	U	A1427	150.434	53.584	-34.587	1.00 94.91	A16S
ATOM	30176	N3	U	A1427	150.215	53.358	-32.338	1.00 94.91	A16S
ATOM	30177	C4	U	A1427	149.702	53.685	-31.103	1.00 94.91	A16S

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ATOM	30178	O4	U	A1427	150.083	53.068	-30.108	1.00	94.91	A16S
ATOM	30179	C5	U	A1427	148.761	54.764	-31.114	1.00	94.91	A16S
ATOM	30180	C2*	U	A1427	147.559	54.836	-35.487	1.00104.64		A16S
ATOM	30181	O2*	U	A1427	147.774	54.926	-36.880	1.00104.64		A16S
ATOM	30182	C3*	U	A1427	146.277	55.517	-35.029	1.00104.64		A16S
ATOM	30183	O3*	U	A1427	145.193	55.297	-35.913	1.00104.64		A16S
ATOM	30184	P	A	A1428	144.316	53.961	-35.750	1.00137.12		A16S
ATOM	30185	O1P	A	A1428	143.225	53.985	-36.761	1.00100.62		A16S
ATOM	30186	O2P	A	A1428	143.977	53.803	-34.306	1.00100.62		A16S
ATOM	30187	O5*	A	A1428	145.341	52.806	-36.137	1.00137.12		A16S
ATOM	30188	C5*	A	A1428	145.819	52.661	-37.486	1.00137.12		A16S
ATOM	30189	C4*	A	A1428	146.531	51.346	-37.636	1.00137.12		A16S
ATOM	30190	O4*	A	A1428	147.789	51.394	-36.920	1.00137.12		A16S
ATOM	30191	C1*	A	A1428	148.042	50.137	-36.314	1.00137.12		A16S
ATOM	30192	N9	A	A1428	148.169	50.338	-34.868	1.00100.62		A16S
ATOM	30193	C4	A	A1428	148.947	49.598	-34.005	1.00100.62		A16S
ATOM	30194	N3	A	A1428	149.722	48.539	-34.302	1.00100.62		A16S
ATOM	30195	C2	A	A1428	150.337	48.087	-33.212	1.00100.62		A16S
ATOM	30196	N1	A	A1428	150.272	48.539	-31.957	1.00100.62		A16S
ATOM	30197	C6	A	A1428	149.485	49.606	-31.693	1.00100.62		A16S
ATOM	30198	N6	A	A1428	149.423	50.063	-30.444	1.00100.62		A16S
ATOM	30199	C5	A	A1428	148.777	50.174	-32.759	1.00100.62		A16S
ATOM	30200	N7	A	A1428	147.896	51.245	-32.825	1.00100.62		A16S
ATOM	30201	C8	A	A1428	147.562	51.298	-34.092	1.00100.62		A16S
ATOM	30202	C2*	A	A1428	146.906	49.190	-36.701	1.00137.12		A16S
ATOM	30203	O2*	A	A1428	147.302	48.415	-37.814	1.00137.12		A16S
ATOM	30204	C3*	A	A1428	145.788	50.169	-37.028	1.00137.12		A16S
ATOM	30205	O3*	A	A1428	144.818	49.638	-37.919	1.00137.12		A16S
ATOM	30206	P	C	A1429	143.435	49.067	-37.332	1.00105.56		A16S
ATOM	30207	O1P	C	A1429	142.466	48.977	-38.468	1.00102.01		A16S
ATOM	30208	O2P	C	A1429	143.083	49.873	-36.127	1.00102.01		A16S
ATOM	30209	O5*	C	A1429	143.810	47.590	-36.861	1.00105.56		A16S
ATOM	30210	C5*	C	A1429	144.234	46.615	-37.820	1.00105.56		A16S
ATOM	30211	C4*	C	A1429	145.194	45.636	-37.196	1.00105.56		A16S
ATOM	30212	O4*	C	A1429	146.309	46.342	-36.592	1.00105.56		A16S
ATOM	30213	C1*	C	A1429	146.818	45.587	-35.503	1.00105.56		A16S
ATOM	30214	N1	C	A1429	146.769	46.395	-34.268	1.00102.01		A16S
ATOM	30215	C6	C	A1429	145.918	47.461	-34.151	1.00102.01		A16S
ATOM	30216	C2	C	A1429	147.605	46.033	-33.186	1.00102.01		A16S
ATOM	30217	O2	C	A1429	148.403	45.082	-33.318	1.00102.01		A16S
ATOM	30218	N3	C	A1429	147.520	46.729	-32.028	1.00102.01		A16S
ATOM	30219	C4	C	A1429	146.664	47.750	-31.922	1.00102.01		A16S
ATOM	30220	N4	C	A1429	146.597	48.388	-30.750	1.00102.01		A16S
ATOM	30221	C5	C	A1429	145.834	48.158	-33.009	1.00102.01		A16S
ATOM	30222	C2*	C	A1429	145.955	44.335	-35.374	1.00105.56		A16S
ATOM	30223	O2*	C	A1429	146.589	43.268	-36.051	1.00105.56		A16S
ATOM	30224	C3*	C	A1429	144.671	44.770	-36.066	1.00105.56		A16S
ATOM	30225	O3*	C	A1429	143.955	43.645	-36.540	1.00105.56		A16S
ATOM	30226	P	C	A1430	142.958	42.873	-35.546	1.00	96.17	A16S
ATOM	30227	O1P	C	A1430	142.345	41.758	-36.319	1.00	80.95	A16S
ATOM	30228	O2P	C	A1430	142.090	43.893	-34.898	1.00	80.95	A16S
ATOM	30229	O5*	C	A1430	143.907	42.252	-34.427	1.00	96.17	A16S
ATOM	30230	C5*	C	A1430	144.721	41.100	-34.707	1.00	96.17	A16S
ATOM	30231	C4*	C	A1430	145.273	40.530	-33.426	1.00	96.17	A16S
ATOM	30232	O4*	C	A1430	146.240	41.447	-32.852	1.00	96.17	A16S
ATOM	30233	C1*	C	A1430	146.167	41.389	-31.436	1.00	96.17	A16S
ATOM	30234	N1	C	A1430	145.804	42.718	-30.915	1.00	80.95	A16S
ATOM	30235	C6	C	A1430	145.169	43.637	-31.704	1.00	80.95	A16S
ATOM	30236	C2	C	A1430	146.103	43.022	-29.575	1.00	80.95	A16S
ATOM	30237	O2	C	A1430	146.707	42.180	-28.883	1.00	80.95	A16S
ATOM	30238	N3	C	A1430	145.730	44.223	-29.073	1.00	80.95	A16S
ATOM	30239	C4	C	A1430	145.101	45.105	-29.853	1.00	80.95	A16S
ATOM	30240	N4	C	A1430	144.749	46.272	-29.319	1.00	80.95	A16S
ATOM	30241	C5	C	A1430	144.803	44.829	-31.219	1.00	80.95	A16S
ATOM	30242	C2*	C	A1430	145.108	40.352	-31.061	1.00	96.17	A16S
ATOM	30243	O2*	C	A1430	145.729	39.121	-30.748	1.00	96.17	A16S
ATOM	30244	C3*	C	A1430	144.252	40.312	-32.321	1.00	96.17	A16S
ATOM	30245	O3*	C	A1430	143.544	39.086	-32.465	1.00	96.17	A16S
ATOM	30246	P	C	A1431	142.094	38.921	-31.782	1.00	83.51	A16S
ATOM	30247	O1P	C	A1431	141.549	37.593	-32.191	1.00	76.03	A16S
ATOM	30248	O2P	C	A1431	141.305	40.156	-32.064	1.00	76.03	A16S
ATOM	30249	O5*	C	A1431	142.422	38.842	-30.223	1.00	83.51	A16S
ATOM	30250	C5*	C	A1431	143.158	37.725	-29.700	1.00	83.51	A16S
ATOM	30251	C4*	C	A1431	143.382	37.875	-28.215	1.00	83.51	A16S
ATOM	30252	O4*	C	A1431	144.272	38.992	-27.947	1.00	83.51	A16S
ATOM	30253	C1*	C	A1431	143.927	39.591	-26.706	1.00	83.51	A16S
ATOM	30254	N1	C	A1431	143.457	40.967	-26.963	1.00	76.03	A16S

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ATOM	30255	C6	C	A1431	143.156	41.380	-28.233	1.00	76.03	A16S
ATOM	30256	C2	C	A1431	143.292	41.847	-25.874	1.00	76.03	A16S
ATOM	30257	O2	C	A1431	143.606	41.468	-24.735	1.00	76.03	A16S
ATOM	30258	N3	C	A1431	142.796	43.085	-26.099	1.00	76.03	A16S
ATOM	30259	C4	C	A1431	142.483	43.465	-27.342	1.00	76.03	A16S
ATOM	30260	N4	C	A1431	141.977	44.687	-27.516	1.00	76.03	A16S
ATOM	30261	C5	C	A1431	142.671	42.605	-28.465	1.00	76.03	A16S
ATOM	30262	C2*	C	A1431	142.795	38.757	-26.109	1.00	83.51	A16S
ATOM	30263	O2*	C	A1431	143.326	37.756	-25.265	1.00	83.51	A16S
ATOM	30264	C3*	C	A1431	142.166	38.167	-27.360	1.00	83.51	A16S
ATOM	30265	O3*	C	A1431	141.386	37.026	-27.074	1.00	83.51	A16S
ATOM	30266	P	G	A1432	139.787	37.177	-26.991	1.00	79.89	A16S
ATOM	30267	O1P	G	A1432	139.208	35.836	-26.662	1.00	71.24	A16S
ATOM	30268	O2P	G	A1432	139.322	37.910	-28.214	1.00	71.24	A16S
ATOM	30269	O5*	G	A1432	139.557	38.132	-25.734	1.00	79.89	A16S
ATOM	30270	C5*	G	A1432	140.117	37.812	-24.443	1.00	79.89	A16S
ATOM	30271	C4*	G	A1432	139.925	38.967	-23.490	1.00	79.89	A16S
ATOM	30272	O4*	G	A1432	140.636	40.130	-23.986	1.00	79.89	A16S
ATOM	30273	C1*	G	A1432	139.878	41.302	-23.744	1.00	79.89	A16S
ATOM	30274	N9	G	A1432	139.513	41.872	-25.041	1.00	71.24	A16S
ATOM	30275	C4	G	A1432	139.377	43.203	-25.359	1.00	71.24	A16S
ATOM	30276	N3	G	A1432	139.547	44.245	-24.517	1.00	71.24	A16S
ATOM	30277	C2	G	A1432	139.331	45.405	-25.122	1.00	71.24	A16S
ATOM	30278	N2	G	A1432	139.449	46.554	-24.435	1.00	71.24	A16S
ATOM	30279	N1	G	A1432	138.982	45.527	-26.447	1.00	71.24	A16S
ATOM	30280	C6	G	A1432	138.803	44.464	-27.329	1.00	71.24	A16S
ATOM	30281	O6	G	A1432	138.481	44.680	-28.506	1.00	71.24	A16S
ATOM	30282	C5	G	A1432	139.026	43.225	-26.698	1.00	71.24	A16S
ATOM	30283	N7	G	A1432	138.940	41.940	-27.207	1.00	71.24	A16S
ATOM	30284	C8	G	A1432	139.235	41.172	-26.194	1.00	71.24	A16S
ATOM	30285	C2*	G	A1432	138.667	40.885	-22.908	1.00	79.89	A16S
ATOM	30286	O2*	G	A1432	138.994	40.968	-21.534	1.00	79.89	A16S
ATOM	30287	C3*	G	A1432	138.493	39.435	-23.330	1.00	79.89	A16S
ATOM	30288	O3*	G	A1432	137.838	38.666	-22.342	1.00	79.89	A16S
ATOM	30289	P	A	A1433	136.260	38.860	-22.088	1.00	68.51	A16S
ATOM	30290	O1P	A	A1433	135.625	37.520	-22.240	1.00	62.39	A16S
ATOM	30291	O2P	A	A1433	135.744	40.010	-22.884	1.00	62.39	A16S
ATOM	30292	O5*	A	A1433	136.207	39.220	-20.538	1.00	68.51	A16S
ATOM	30293	C5*	A	A1433	136.868	38.365	-19.594	1.00	68.51	A16S
ATOM	30294	C4*	A	A1433	136.801	38.952	-18.218	1.00	68.51	A16S
ATOM	30295	O4*	A	A1433	137.620	40.143	-18.148	1.00	68.51	A16S
ATOM	30296	C1*	A	A1433	137.011	41.092	-17.286	1.00	68.51	A16S
ATOM	30297	N9	A	A1433	136.753	42.309	-18.062	1.00	62.39	A16S
ATOM	30298	C4	A	A1433	136.477	43.560	-17.565	1.00	62.39	A16S
ATOM	30299	N3	A	A1433	136.377	43.921	-16.277	1.00	62.39	A16S
ATOM	30300	C2	A	A1433	136.098	45.214	-16.178	1.00	62.39	A16S
ATOM	30301	N1	A	A1433	135.922	46.121	-17.149	1.00	62.39	A16S
ATOM	30302	C6	A	A1433	136.034	45.719	-18.432	1.00	62.39	A16S
ATOM	30303	N6	A	A1433	135.869	46.615	-19.405	1.00	62.39	A16S
ATOM	30304	C5	A	A1433	136.321	44.376	-18.669	1.00	62.39	A16S
ATOM	30305	N7	A	A1433	136.489	43.658	-19.841	1.00	62.39	A16S
ATOM	30306	C8	A	A1433	136.741	42.442	-19.432	1.00	62.39	A16S
ATOM	30307	C2*	A	A1433	135.744	40.448	-16.717	1.00	68.51	A16S
ATOM	30308	O2*	A	A1433	136.045	39.871	-15.459	1.00	68.51	A16S
ATOM	30309	C3*	A	A1433	135.429	39.413	-17.789	1.00	68.51	A16S
ATOM	30310	O3*	A	A1433	134.642	38.328	-17.346	1.00	68.51	A16S
ATOM	30311	P	A	A1434	133.083	38.305	-17.711	1.00	55.44	A16S
ATOM	30312	O1P	A	A1434	132.503	36.996	-17.310	1.00	66.65	A16S
ATOM	30313	O2P	A	A1434	132.927	38.786	-19.113	1.00	66.65	A16S
ATOM	30314	O5*	A	A1434	132.492	39.408	-16.732	1.00	55.44	A16S
ATOM	30315	C5*	A	A1434	132.780	39.348	-15.321	1.00	55.44	A16S
ATOM	30316	C4*	A	A1434	132.340	40.618	-14.647	1.00	55.44	A16S
ATOM	30317	O4*	A	A1434	133.230	41.708	-15.001	1.00	55.44	A16S
ATOM	30318	C1*	A	A1434	132.483	42.901	-15.118	1.00	55.44	A16S
ATOM	30319	N9	A	A1434	132.601	43.397	-16.487	1.00	66.65	A16S
ATOM	30320	C4	A	A1434	132.655	44.717	-16.858	1.00	66.65	A16S
ATOM	30321	N3	A	A1434	132.675	45.789	-16.050	1.00	66.65	A16S
ATOM	30322	C2	A	A1434	132.676	46.907	-16.760	1.00	66.65	A16S
ATOM	30323	N1	A	A1434	132.657	47.066	-18.086	1.00	66.65	A16S
ATOM	30324	C6	A	A1434	132.640	45.968	-18.868	1.00	66.65	A16S
ATOM	30325	N6	A	A1434	132.614	46.127	-20.189	1.00	66.65	A16S
ATOM	30326	C5	A	A1434	132.647	44.721	-18.238	1.00	66.65	A16S
ATOM	30327	N7	A	A1434	132.638	43.427	-18.733	1.00	66.65	A16S
ATOM	30328	C8	A	A1434	132.621	42.679	-17.656	1.00	66.65	A16S
ATOM	30329	C2*	A	A1434	131.021	42.578	-14.792	1.00	55.44	A16S
ATOM	30330	O2*	A	A1434	130.730	42.882	-13.445	1.00	55.44	A16S
ATOM	30331	C3*	A	A1434	130.963	41.086	-15.066	1.00	55.44	A16S

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ATOM	30332	O3*	A	A1434	129.940	40.436	-14.332	1.00	55.44	A16S
ATOM	30333	P	G	A1435	128.517	40.175	-15.030	1.00	56.67	A16S
ATOM	30334	O1P	G	A1435	127.592	39.699	-13.968	1.00	64.07	A16S
ATOM	30335	O2P	G	A1435	128.714	39.355	-16.256	1.00	64.07	A16S
ATOM	30336	O5*	G	A1435	128.050	41.631	-15.491	1.00	56.67	A16S
ATOM	30337	C5*	G	A1435	127.726	42.670	-14.522	1.00	56.67	A16S
ATOM	30338	C4*	G	A1435	127.307	43.940	-15.234	1.00	56.67	A16S
ATOM	30339	O4*	G	A1435	128.454	44.479	-15.933	1.00	56.67	A16S
ATOM	30340	C1*	G	A1435	128.062	44.929	-17.219	1.00	56.67	A16S
ATOM	30341	N9	G	A1435	128.720	44.077	-18.206	1.00	64.07	A16S
ATOM	30342	C4	G	A1435	129.106	44.432	-19.479	1.00	64.07	A16S
ATOM	30343	N3	G	A1435	128.968	45.650	-20.039	1.00	64.07	A16S
ATOM	30344	C2	G	A1435	129.403	45.674	-21.289	1.00	64.07	A16S
ATOM	30345	N2	G	A1435	129.312	46.809	-21.998	1.00	64.07	A16S
ATOM	30346	N1	G	A1435	129.945	44.592	-21.936	1.00	64.07	A16S
ATOM	30347	C6	G	A1435	130.096	43.327	-21.385	1.00	64.07	A16S
ATOM	30348	O6	G	A1435	130.580	42.412	-22.066	1.00	64.07	A16S
ATOM	30349	C5	G	A1435	129.627	43.286	-20.037	1.00	64.07	A16S
ATOM	30350	N7	G	A1435	129.591	42.236	-19.127	1.00	64.07	A16S
ATOM	30351	C8	G	A1435	129.053	42.753	-18.057	1.00	64.07	A16S
ATOM	30352	C2*	G	A1435	126.535	44.830	-17.310	1.00	56.67	A16S
ATOM	30353	O2*	G	A1435	125.908	46.054	-16.979	1.00	56.67	A16S
ATOM	30354	C3*	G	A1435	126.239	43.732	-16.303	1.00	56.67	A16S
ATOM	30355	O3*	G	A1435	124.924	43.838	-15.773	1.00	56.67	A16S
ATOM	30356	P	U	A1436	123.698	43.107	-16.522	1.00	58.55	A16S
ATOM	30357	O1P	U	A1436	122.637	42.895	-15.498	1.00	67.18	A16S
ATOM	30358	O2P	U	A1436	124.197	41.945	-17.308	1.00	67.18	A16S
ATOM	30359	O5*	U	A1436	123.172	44.212	-17.542	1.00	58.55	A16S
ATOM	30360	C5*	U	A1436	122.530	45.405	-17.060	1.00	58.55	A16S
ATOM	30361	C4*	U	A1436	122.403	46.418	-18.169	1.00	58.55	A16S
ATOM	30362	O4*	U	A1436	123.728	46.845	-18.583	1.00	58.55	A16S
ATOM	30363	C1*	U	A1436	123.715	47.141	-19.966	1.00	58.55	A16S
ATOM	30364	N1	U	A1436	124.679	46.265	-20.648	1.00	67.18	A16S
ATOM	30365	C6	U	A1436	124.961	45.002	-20.181	1.00	67.18	A16S
ATOM	30366	C2	U	A1436	125.278	46.745	-21.797	1.00	67.18	A16S
ATOM	30367	O2	U	A1436	125.084	47.877	-22.224	1.00	67.18	A16S
ATOM	30368	N3	U	A1436	126.114	45.856	-22.430	1.00	67.18	A16S
ATOM	30369	C4	U	A1436	126.416	44.570	-22.030	1.00	67.18	A16S
ATOM	30370	O4	U	A1436	127.141	43.867	-22.738	1.00	67.18	A16S
ATOM	30371	C5	U	A1436	125.787	44.164	-20.814	1.00	67.18	A16S
ATOM	30372	C2*	U	A1436	122.289	46.919	-20.482	1.00	58.55	A16S
ATOM	30373	O2*	U	A1436	121.573	48.136	-20.481	1.00	58.55	A16S
ATOM	30374	C3*	U	A1436	121.724	45.953	-19.452	1.00	58.55	A16S
ATOM	30375	O3*	U	A1436	120.306	46.079	-19.392	1.00	58.55	A16S
ATOM	30376	P	C	A1437	119.380	45.190	-20.366	1.00	55.56	A16S
ATOM	30377	O1P	C	A1437	118.003	45.733	-20.298	1.00	71.66	A16S
ATOM	30378	O2P	C	A1437	119.622	43.754	-20.068	1.00	71.66	A16S
ATOM	30379	O5*	C	A1437	119.899	45.512	-21.835	1.00	55.56	A16S
ATOM	30380	C5*	C	A1437	119.686	46.811	-22.411	1.00	55.56	A16S
ATOM	30381	C4*	C	A1437	120.369	46.914	-23.750	1.00	55.56	A16S
ATOM	30382	O4*	C	A1437	121.799	46.724	-23.591	1.00	55.56	A16S
ATOM	30383	C1*	C	A1437	122.324	46.090	-24.746	1.00	55.56	A16S
ATOM	30384	N1	C	A1437	122.988	44.829	-24.357	1.00	71.66	A16S
ATOM	30385	C6	C	A1437	122.756	44.246	-23.144	1.00	71.66	A16S
ATOM	30386	C2	C	A1437	123.867	44.229	-25.268	1.00	71.66	A16S
ATOM	30387	O2	C	A1437	124.062	44.774	-26.370	1.00	71.66	A16S
ATOM	30388	N3	C	A1437	124.477	43.073	-24.935	1.00	71.66	A16S
ATOM	30389	C4	C	A1437	124.238	42.513	-23.755	1.00	71.66	A16S
ATOM	30390	N4	C	A1437	124.859	41.373	-23.476	1.00	71.66	A16S
ATOM	30391	C5	C	A1437	123.352	43.098	-22.808	1.00	71.66	A16S
ATOM	30392	C2*	C	A1437	121.166	45.852	-25.713	1.00	55.56	A16S
ATOM	30393	O2*	C	A1437	121.118	46.908	-26.649	1.00	55.56	A16S
ATOM	30394	C3*	C	A1437	119.974	45.868	-24.771	1.00	55.56	A16S
ATOM	30395	O3*	C	A1437	118.784	46.203	-25.449	1.00	55.56	A16S
ATOM	30396	P	G	A1438	117.824	45.024	-25.956	1.00	53.88	A16S
ATOM	30397	O1P	G	A1438	116.576	45.641	-26.499	1.00	61.80	A16S
ATOM	30398	O2P	G	A1438	117.740	44.032	-24.847	1.00	61.80	A16S
ATOM	30399	O5*	G	A1438	118.615	44.380	-27.177	1.00	53.88	A16S
ATOM	30400	C5*	G	A1438	118.646	45.047	-28.442	1.00	53.88	A16S
ATOM	30401	C4*	G	A1438	119.365	44.203	-29.454	1.00	53.88	A16S
ATOM	30402	O4*	G	A1438	120.744	44.034	-29.043	1.00	53.88	A16S
ATOM	30403	C1*	G	A1438	121.204	42.755	-29.448	1.00	53.88	A16S
ATOM	30404	N9	G	A1438	121.675	42.017	-28.276	1.00	61.80	A16S
ATOM	30405	C4	G	A1438	122.476	40.898	-28.293	1.00	61.80	A16S
ATOM	30406	N3	G	A1438	122.966	40.295	-29.391	1.00	61.80	A16S
ATOM	30407	C2	G	A1438	123.706	39.249	-29.085	1.00	61.80	A16S
ATOM	30408	N2	G	A1438	124.278	38.527	-30.056	1.00	61.80	A16S

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ATOM	30409	N1	G	A1438	123.944	38.829	-27.807	1.00	61.80	A16S
ATOM	30410	C6	G	A1438	123.449	39.430	-26.667	1.00	61.80	A16S
ATOM	30411	O6	G	A1438	123.725	38.966	-25.569	1.00	61.80	A16S
ATOM	30412	C5	G	A1438	122.654	40.553	-26.973	1.00	61.80	A16S
ATOM	30413	N7	G	A1438	121.982	41.432	-26.138	1.00	61.80	A16S
ATOM	30414	C8	G	A1438	121.416	42.285	-26.952	1.00	61.80	A16S
ATOM	30415	C2*	G	A1438	120.056	42.047	-30.166	1.00	53.88	A16S
ATOM	30416	O2*	G	A1438	120.214	42.204	-31.559	1.00	53.88	A16S
ATOM	30417	C3*	G	A1438	118.844	42.787	-29.615	1.00	53.88	A16S
ATOM	30418	O3*	G	A1438	117.728	42.718	-30.488	1.00	53.88	A16S
ATOM	30419	P	C	A1439	116.719	41.467	-30.386	1.00	64.93	A16S
ATOM	30420	O1P	C	A1439	115.581	41.752	-31.305	1.00	69.20	A16S
ATOM	30421	O2P	C	A1439	116.458	41.165	-28.949	1.00	69.20	A16S
ATOM	30422	O5*	C	A1439	117.537	40.242	-30.985	1.00	64.93	A16S
ATOM	30423	C5*	C	A1439	117.756	40.139	-32.391	1.00	64.93	A16S
ATOM	30424	C4*	C	A1439	118.551	38.903	-32.701	1.00	64.93	A16S
ATOM	30425	O4*	C	A1439	119.856	38.990	-32.069	1.00	64.93	A16S
ATOM	30426	C1*	C	A1439	120.288	37.695	-31.684	1.00	64.93	A16S
ATOM	30427	N1	C	A1439	120.474	37.659	-30.219	1.00	69.20	A16S
ATOM	30428	C6	C	A1439	119.953	38.632	-29.413	1.00	69.20	A16S
ATOM	30429	C2	C	A1439	121.193	36.593	-29.659	1.00	69.20	A16S
ATOM	30430	O2	C	A1439	121.664	35.719	-30.411	1.00	69.20	A16S
ATOM	30431	N3	C	A1439	121.355	36.540	-28.319	1.00	69.20	A16S
ATOM	30432	C4	C	A1439	120.839	37.492	-27.548	1.00	69.20	A16S
ATOM	30433	N4	C	A1439	121.025	37.397	-26.238	1.00	69.20	A16S
ATOM	30434	C5	C	A1439	120.110	38.585	-28.086	1.00	69.20	A16S
ATOM	30435	C2*	C	A1439	119.215	36.707	-32.133	1.00	64.93	A16S
ATOM	30436	O2*	C	A1439	119.576	36.205	-33.403	1.00	64.93	A16S
ATOM	30437	C3*	C	A1439	117.982	37.600	-32.176	1.00	64.93	A16S
ATOM	30438	O3*	C	A1439	116.933	37.079	-32.983	1.00	64.93	A16S
ATOM	30439	P	C	A1440	115.809	36.139	-32.306	1.00	70.22	A16S
ATOM	30440	O1P	C	A1440	114.793	35.850	-33.361	1.00	62.18	A16S
ATOM	30441	O2P	C	A1440	115.375	36.749	-31.011	1.00	62.18	A16S
ATOM	30442	O5*	C	A1440	116.596	34.791	-31.969	1.00	70.22	A16S
ATOM	30443	C5*	C	A1440	117.172	34.007	-33.022	1.00	70.22	A16S
ATOM	30444	C4*	C	A1440	117.971	32.856	-32.459	1.00	70.22	A16S
ATOM	30445	O4*	C	A1440	119.100	33.355	-31.700	1.00	70.22	A16S
ATOM	30446	C1*	C	A1440	119.400	32.454	-30.648	1.00	70.22	A16S
ATOM	30447	N1	C	A1440	119.170	33.137	-29.371	1.00	62.18	A16S
ATOM	30448	C6	C	A1440	118.503	34.330	-29.322	1.00	62.18	A16S
ATOM	30449	C2	C	A1440	119.625	32.529	-28.192	1.00	62.18	A16S
ATOM	30450	O2	C	A1440	120.249	31.454	-28.265	1.00	62.18	A16S
ATOM	30451	N3	C	A1440	119.374	33.125	-27.009	1.00	62.18	A16S
ATOM	30452	C4	C	A1440	118.708	34.282	-26.974	1.00	62.18	A16S
ATOM	30453	N4	C	A1440	118.470	34.827	-25.784	1.00	62.18	A16S
ATOM	30454	C5	C	A1440	118.251	34.929	-28.158	1.00	62.18	A16S
ATOM	30455	C2*	C	A1440	118.437	31.278	-30.762	1.00	70.22	A16S
ATOM	30456	O2*	C	A1440	119.067	30.237	-31.482	1.00	70.22	A16S
ATOM	30457	C3*	C	A1440	117.268	31.922	-31.492	1.00	70.22	A16S
ATOM	30458	O3*	C	A1440	116.455	30.967	-32.145	1.00	70.22	A16S
ATOM	30459	P	G	A1441	115.086	30.496	-31.448	1.00	67.24	A16S
ATOM	30460	O1P	G	A1441	114.600	29.306	-32.198	1.00	67.58	A16S
ATOM	30461	O2P	G	A1441	114.200	31.679	-31.296	1.00	67.58	A16S
ATOM	30462	O5*	G	A1441	115.555	30.031	-30.000	1.00	67.24	A16S
ATOM	30463	C5*	G	A1441	116.429	28.910	-29.846	1.00	67.24	A16S
ATOM	30464	C4*	G	A1441	116.734	28.684	-28.389	1.00	67.24	A16S
ATOM	30465	O4*	G	A1441	117.493	29.810	-27.874	1.00	67.24	A16S
ATOM	30466	C1*	G	A1441	117.073	30.107	-26.553	1.00	67.24	A16S
ATOM	30467	N9	G	A1441	116.466	31.441	-26.577	1.00	67.58	A16S
ATOM	30468	C4	G	A1441	116.340	32.327	-25.526	1.00	67.58	A16S
ATOM	30469	N3	G	A1441	116.769	32.131	-24.262	1.00	67.58	A16S
ATOM	30470	C2	G	A1441	116.501	33.167	-23.487	1.00	67.58	A16S
ATOM	30471	N2	G	A1441	116.857	33.145	-22.203	1.00	67.58	A16S
ATOM	30472	N1	G	A1441	115.861	34.304	-23.912	1.00	67.58	A16S
ATOM	30473	C6	G	A1441	115.394	34.524	-25.206	1.00	67.58	A16S
ATOM	30474	O6	G	A1441	114.795	35.584	-25.486	1.00	67.58	A16S
ATOM	30475	C5	G	A1441	115.685	33.424	-26.052	1.00	67.58	A16S
ATOM	30476	N7	G	A1441	115.412	33.238	-27.399	1.00	67.58	A16S
ATOM	30477	C8	G	A1441	115.891	32.055	-27.667	1.00	67.58	A16S
ATOM	30478	C2*	G	A1441	116.088	29.006	-26.137	1.00	67.24	A16S
ATOM	30479	O2*	G	A1441	116.794	27.949	-25.516	1.00	67.24	A16S
ATOM	30480	C3*	G	A1441	115.518	28.573	-27.484	1.00	67.24	A16S
ATOM	30481	O3*	G	A1441	115.002	27.241	-27.466	1.00	67.24	A16S
ATOM	30482	P	G	A1442	113.505	26.943	-27.995	1.00	114.22	A16S
ATOM	30483	O1P	G	A1442	113.147	27.905	-29.068	1.00	110.61	A16S
ATOM	30484	O2P	G	A1442	112.618	26.801	-26.809	1.00	110.61	A16S
ATOM	30485	O5*	G	A1442	113.652	25.505	-28.661	1.00	114.22	A16S

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ATOM	30486	C5*	G	A1442	113.246	25.249	-30.022	1.00114.22	A16S
ATOM	30487	C4*	G	A1442	114.284	24.397	-30.724	1.00114.22	A16S
ATOM	30488	O4*	G	A1442	115.402	25.230	-31.119	1.00114.22	A16S
ATOM	30489	C1*	G	A1442	116.604	24.487	-31.040	1.00114.22	A16S
ATOM	30490	N9	G	A1442	117.540	25.242	-30.213	1.00110.61	A16S
ATOM	30491	C4	G	A1442	117.870	25.017	-28.896	1.00110.61	A16S
ATOM	30492	N3	G	A1442	117.425	24.000	-28.128	1.00110.61	A16S
ATOM	30493	C2	G	A1442	117.900	24.064	-26.895	1.00110.61	A16S
ATOM	30494	N2	G	A1442	117.581	23.106	-26.007	1.00110.61	A16S
ATOM	30495	N1	G	A1442	118.728	25.062	-26.443	1.00110.61	A16S
ATOM	30496	C6	G	A1442	119.197	26.121	-27.213	1.00110.61	A16S
ATOM	30497	O6	G	A1442	119.930	26.974	-26.703	1.00110.61	A16S
ATOM	30498	C5	G	A1442	118.716	26.048	-28.549	1.00110.61	A16S
ATOM	30499	N7	G	A1442	118.951	26.878	-29.636	1.00110.61	A16S
ATOM	30500	C8	G	A1442	118.241	26.358	-30.599	1.00110.61	A16S
ATOM	30501	C2*	G	A1442	116.260	23.066	-30.576	1.00114.22	A16S
ATOM	30502	O2*	G	A1442	116.215	22.228	-31.714	1.00114.22	A16S
ATOM	30503	C3*	G	A1442	114.895	23.259	-29.909	1.00114.22	A16S
ATOM	30504	O3*	G	A1442	114.100	22.060	-29.970	1.00114.22	A16S
ATOM	30505	P	G	A1443	113.458	21.431	-28.622	1.00133.39	A16S
ATOM	30506	O1P	G	A1443	112.036	21.869	-28.581	1.00 97.38	A16S
ATOM	30507	O2P	G	A1443	114.347	21.689	-27.448	1.00 97.38	A16S
ATOM	30508	O5*	G	A1443	113.428	19.861	-28.905	1.00133.39	A16S
ATOM	30509	C5*	G	A1443	114.289	18.942	-28.191	1.00133.39	A16S
ATOM	30510	C4*	G	A1443	114.257	17.583	-28.854	1.00133.39	A16S
ATOM	30511	O4*	G	A1443	112.900	17.094	-28.800	1.00133.39	A16S
ATOM	30512	C1*	G	A1443	112.578	16.440	-30.007	1.00133.39	A16S
ATOM	30513	N9	G	A1443	111.357	17.039	-30.528	1.00 97.38	A16S
ATOM	30514	C4	G	A1443	110.276	16.356	-31.007	1.00 97.38	A16S
ATOM	30515	N3	G	A1443	110.182	15.019	-31.127	1.00 97.38	A16S
ATOM	30516	C2	G	A1443	109.008	14.651	-31.600	1.00 97.38	A16S
ATOM	30517	N2	G	A1443	108.746	13.350	-31.796	1.00 97.38	A16S
ATOM	30518	N1	G	A1443	108.000	15.529	-31.920	1.00 97.38	A16S
ATOM	30519	C6	G	A1443	108.074	16.911	-31.798	1.00 97.38	A16S
ATOM	30520	O6	G	A1443	107.101	17.610	-32.101	1.00 97.38	A16S
ATOM	30521	C5	G	A1443	109.335	17.319	-31.306	1.00 97.38	A16S
ATOM	30522	N7	G	A1443	109.830	18.591	-31.047	1.00 97.38	A16S
ATOM	30523	C8	G	A1443	111.036	18.377	-30.597	1.00 97.38	A16S
ATOM	30524	C2*	G	A1443	113.801	16.456	-30.923	1.00133.39	A16S
ATOM	30525	O2*	G	A1443	114.420	15.191	-30.842	1.00133.39	A16S
ATOM	30526	C3*	G	A1443	114.638	17.589	-30.328	1.00133.39	A16S
ATOM	30527	O3*	G	A1443	116.028	17.290	-30.451	1.00133.39	A16S
ATOM	30528	P	A	A1446	117.076	18.449	-30.828	1.00124.19	A16S
ATOM	30529	O1P	A	A1446	116.307	19.683	-31.128	1.00150.33	A16S
ATOM	30530	O2P	A	A1446	118.024	17.914	-31.839	1.00150.33	A16S
ATOM	30531	O5*	A	A1446	117.887	18.678	-29.479	1.00124.19	A16S
ATOM	30532	C5*	A	A1446	117.264	19.296	-28.354	1.00124.19	A16S
ATOM	30533	C4*	A	A1446	118.067	19.035	-27.120	1.00124.19	A16S
ATOM	30534	O4*	A	A1446	119.363	19.660	-27.256	1.00124.19	A16S
ATOM	30535	C1*	A	A1446	119.832	20.045	-25.977	1.00124.19	A16S
ATOM	30536	N9	A	A1446	120.346	21.418	-26.034	1.00150.33	A16S
ATOM	30537	C4	A	A1446	120.932	22.033	-27.118	1.00150.33	A16S
ATOM	30538	N3	A	A1446	121.116	21.522	-28.348	1.00150.33	A16S
ATOM	30539	C2	A	A1446	121.740	22.398	-29.132	1.00150.33	A16S
ATOM	30540	N1	A	A1446	122.170	23.633	-28.848	1.00150.33	A16S
ATOM	30541	C6	A	A1446	121.971	24.117	-27.603	1.00150.33	A16S
ATOM	30542	N6	A	A1446	122.408	25.346	-27.318	1.00150.33	A16S
ATOM	30543	C5	A	A1446	121.314	23.288	-26.677	1.00150.33	A16S
ATOM	30544	N7	A	A1446	120.957	23.474	-25.349	1.00150.33	A16S
ATOM	30545	C8	A	A1446	120.383	22.344	-25.017	1.00150.33	A16S
ATOM	30546	C2*	A	A1446	118.725	19.775	-24.954	1.00124.19	A16S
ATOM	30547	O2*	A	A1446	119.024	18.591	-24.239	1.00124.19	A16S
ATOM	30548	C3*	A	A1446	117.497	19.625	-25.846	1.00124.19	A16S
ATOM	30549	O3*	A	A1446	116.553	18.728	-25.281	1.00124.19	A16S
ATOM	30550	P	G	A1447	115.566	19.235	-24.118	1.00 81.79	A16S
ATOM	30551	O1P	G	A1447	114.423	18.275	-24.044	1.00 78.84	A16S
ATOM	30552	O2P	G	A1447	115.292	20.688	-24.355	1.00 78.84	A16S
ATOM	30553	O5*	G	A1447	116.416	19.063	-22.775	1.00 81.79	A16S
ATOM	30554	C5*	G	A1447	115.761	19.098	-21.500	1.00 81.79	A16S
ATOM	30555	C4*	G	A1447	116.678	19.651	-20.441	1.00 81.79	A16S
ATOM	30556	O4*	G	A1447	117.583	20.632	-21.000	1.00 81.79	A16S
ATOM	30557	C1*	G	A1447	117.680	21.753	-20.132	1.00 81.79	A16S
ATOM	30558	N9	G	A1447	117.173	22.919	-20.861	1.00 78.84	A16S
ATOM	30559	C4	G	A1447	116.913	24.175	-20.359	1.00 78.84	A16S
ATOM	30560	N3	G	A1447	117.087	24.573	-19.081	1.00 78.84	A16S
ATOM	30561	C2	G	A1447	116.737	25.838	-18.908	1.00 78.84	A16S
ATOM	30562	N2	G	A1447	116.848	26.397	-17.696	1.00 78.84	A16S

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ATOM	30563	N1	G	A1447	116.255	26.646	-19.914	1.00	78.84	A16S
ATOM	30564	C6	G	A1447	116.076	26.255	-21.240	1.00	78.84	A16S
ATOM	30565	O6	G	A1447	115.648	27.062	-22.077	1.00	78.84	A16S
ATOM	30566	C5	G	A1447	116.442	24.907	-21.434	1.00	78.84	A16S
ATOM	30567	N7	G	A1447	116.411	24.135	-22.582	1.00	78.84	A16S
ATOM	30568	C8	G	A1447	116.854	22.970	-22.199	1.00	78.84	A16S
ATOM	30569	C2*	G	A1447	116.897	21.417	-18.858	1.00	81.79	A16S
ATOM	30570	O2*	G	A1447	117.757	20.886	-17.874	1.00	81.79	A16S
ATOM	30571	C3*	G	A1447	115.900	20.395	-19.380	1.00	81.79	A16S
ATOM	30572	O3*	G	A1447	115.399	19.497	-18.417	1.00	81.79	A16S
ATOM	30573	P	C	A1448	113.812	19.343	-18.248	1.00	83.07	A16S
ATOM	30574	O1P	C	A1448	113.557	18.023	-17.627	1.00	74.10	A16S
ATOM	30575	O2P	C	A1448	113.151	19.682	-19.540	1.00	74.10	A16S
ATOM	30576	O5*	C	A1448	113.464	20.466	-17.175	1.00	83.07	A16S
ATOM	30577	C5*	C	A1448	114.085	20.458	-15.874	1.00	83.07	A16S
ATOM	30578	C4*	C	A1448	113.878	21.784	-15.188	1.00	83.07	A16S
ATOM	30579	O4*	C	A1448	114.686	22.806	-15.828	1.00	83.07	A16S
ATOM	30580	C1*	C	A1448	113.983	24.043	-15.835	1.00	83.07	A16S
ATOM	30581	N1	C	A1448	113.729	24.436	-17.237	1.00	74.10	A16S
ATOM	30582	C6	C	A1448	113.952	23.558	-18.261	1.00	74.10	A16S
ATOM	30583	C2	C	A1448	113.235	25.720	-17.508	1.00	74.10	A16S
ATOM	30584	O2	C	A1448	113.052	26.509	-16.566	1.00	74.10	A16S
ATOM	30585	N3	C	A1448	112.965	26.066	-18.789	1.00	74.10	A16S
ATOM	30586	C4	C	A1448	113.171	25.189	-19.774	1.00	74.10	A16S
ATOM	30587	N4	C	A1448	112.873	25.558	-21.018	1.00	74.10	A16S
ATOM	30588	C5	C	A1448	113.687	23.890	-19.529	1.00	74.10	A16S
ATOM	30589	C2*	C	A1448	112.675	23.823	-15.075	1.00	83.07	A16S
ATOM	30590	O2*	C	A1448	112.846	24.171	-13.715	1.00	83.07	A16S
ATOM	30591	C3*	C	A1448	112.467	22.331	-15.265	1.00	83.07	A16S
ATOM	30592	O3*	C	A1448	111.613	21.773	-14.297	1.00	83.07	A16S
ATOM	30593	P	C	A1449	110.081	21.496	-14.680	1.00	65.12	A16S
ATOM	30594	O1P	C	A1449	109.502	20.712	-13.561	1.00	73.61	A16S
ATOM	30595	O2P	C	A1449	110.009	20.967	-16.072	1.00	73.61	A16S
ATOM	30596	O5*	C	A1449	109.418	22.943	-14.678	1.00	65.12	A16S
ATOM	30597	C5*	C	A1449	109.220	23.661	-13.451	1.00	65.12	A16S
ATOM	30598	C4*	C	A1449	108.488	24.956	-13.712	1.00	65.12	A16S
ATOM	30599	O4*	C	A1449	109.346	25.880	-14.429	1.00	65.12	A16S
ATOM	30600	C1*	C	A1449	108.568	26.663	-15.314	1.00	65.12	A16S
ATOM	30601	N1	C	A1449	108.979	26.365	-16.695	1.00	73.61	A16S
ATOM	30602	C6	C	A1449	109.744	25.271	-16.985	1.00	73.61	A16S
ATOM	30603	C2	C	A1449	108.541	27.202	-17.714	1.00	73.61	A16S
ATOM	30604	O2	C	A1449	107.901	28.216	-17.414	1.00	73.61	A16S
ATOM	30605	N3	C	A1449	108.827	26.889	-18.998	1.00	73.61	A16S
ATOM	30606	C4	C	A1449	109.536	25.795	-19.273	1.00	73.61	A16S
ATOM	30607	N4	C	A1449	109.760	25.495	-20.552	1.00	73.61	A16S
ATOM	30608	C5	C	A1449	110.040	24.951	-18.248	1.00	73.61	A16S
ATOM	30609	C2*	C	A1449	107.106	26.273	-15.106	1.00	65.12	A16S
ATOM	30610	O2*	C	A1449	106.532	27.156	-14.168	1.00	65.12	A16S
ATOM	30611	C3*	C	A1449	107.242	24.856	-14.570	1.00	65.12	A16S
ATOM	30612	O3*	C	A1449	106.110	24.439	-13.826	1.00	65.12	A16S
ATOM	30613	P	U	A1450	104.985	23.544	-14.546	1.00	57.20	A16S
ATOM	30614	O1P	U	A1450	104.014	23.050	-13.529	1.00	66.61	A16S
ATOM	30615	O2P	U	A1450	105.699	22.571	-15.421	1.00	66.61	A16S
ATOM	30616	O5*	U	A1450	104.210	24.582	-15.472	1.00	57.20	A16S
ATOM	30617	C5*	U	A1450	103.571	25.743	-14.917	1.00	57.20	A16S
ATOM	30618	C4*	U	A1450	103.122	26.668	-16.023	1.00	57.20	A16S
ATOM	30619	O4*	U	A1450	104.282	27.125	-16.779	1.00	57.20	A16S
ATOM	30620	C1*	U	A1450	103.910	27.366	-18.130	1.00	57.20	A16S
ATOM	30621	N1	U	A1450	104.728	26.531	-19.031	1.00	66.61	A16S
ATOM	30622	C6	U	A1450	105.542	25.531	-18.546	1.00	66.61	A16S
ATOM	30623	C2	U	A1450	104.640	26.770	-20.410	1.00	66.61	A16S
ATOM	30624	O2	U	A1450	103.964	27.660	-20.899	1.00	66.61	A16S
ATOM	30625	N3	U	A1450	105.381	25.927	-21.193	1.00	66.61	A16S
ATOM	30626	C4	U	A1450	106.195	24.899	-20.769	1.00	66.61	A16S
ATOM	30627	O4	U	A1450	106.755	24.189	-21.609	1.00	66.61	A16S
ATOM	30628	C5	U	A1450	106.259	24.730	-19.345	1.00	66.61	A16S
ATOM	30629	C2*	U	A1450	102.419	27.050	-18.253	1.00	57.20	A16S
ATOM	30630	O2*	U	A1450	101.688	28.253	-18.103	1.00	57.20	A16S
ATOM	30631	C3*	U	A1450	102.202	26.086	-17.090	1.00	57.20	A16S
ATOM	30632	O3*	U	A1450	100.829	26.016	-16.693	1.00	57.20	A16S
ATOM	30633	P	A	A1451	99.773	25.176	-17.588	1.00	65.42	A16S
ATOM	30634	O1P	A	A1451	99.017	24.260	-16.685	1.00	81.94	A16S
ATOM	30635	O2P	A	A1451	100.469	24.614	-18.778	1.00	81.94	A16S
ATOM	30636	O5*	A	A1451	98.757	26.298	-18.072	1.00	65.42	A16S
ATOM	30637	C5*	A	A1451	97.688	26.011	-18.989	1.00	65.42	A16S
ATOM	30638	C4*	A	A1451	97.115	27.307	-19.493	1.00	65.42	A16S
ATOM	30639	O4*	A	A1451	96.625	28.045	-18.351	1.00	65.42	A16S

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ATOM	30640	C1*	A	A1451	97.133	29.362	-18.361	1.00	65.42	A16S
ATOM	30641	N9	A	A1451	97.937	29.501	-17.155	1.00	81.94	A16S
ATOM	30642	C4	A	A1451	97.656	30.297	-16.075	1.00	81.94	A16S
ATOM	30643	N3	A	A1451	96.628	31.150	-15.933	1.00	81.94	A16S
ATOM	30644	C2	A	A1451	96.669	31.739	-14.735	1.00	81.94	A16S
ATOM	30645	N1	A	A1451	97.548	31.573	-13.737	1.00	81.94	A16S
ATOM	30646	C6	A	A1451	98.561	30.697	-13.911	1.00	81.94	A16S
ATOM	30647	N6	A	A1451	99.424	30.506	-12.910	1.00	81.94	A16S
ATOM	30648	C5	A	A1451	98.640	30.026	-15.144	1.00	81.94	A16S
ATOM	30649	N7	A	A1451	99.543	29.101	-15.644	1.00	81.94	A16S
ATOM	30650	C8	A	A1451	99.086	28.832	-16.840	1.00	81.94	A16S
ATOM	30651	C2*	A	A1451	97.857	29.598	-19.690	1.00	65.42	A16S
ATOM	30652	O2*	A	A1451	97.034	30.314	-20.585	1.00	65.42	A16S
ATOM	30653	C3*	A	A1451	98.183	28.178	-20.131	1.00	65.42	A16S
ATOM	30654	O3*	A	A1451	98.233	27.955	-21.546	1.00	65.42	A16S
ATOM	30655	P	C	A1452	96.866	27.890	-22.432	1.00	64.01	A16S
ATOM	30656	O1P	C	A1452	95.845	28.877	-21.982	1.00	66.68	A16S
ATOM	30657	O2P	C	A1452	96.479	26.449	-22.568	1.00	66.68	A16S
ATOM	30658	O5*	C	A1452	97.367	28.348	-23.871	1.00	64.01	A16S
ATOM	30659	C5*	C	A1452	98.169	29.533	-24.021	1.00	64.01	A16S
ATOM	30660	C4*	C	A1452	99.485	29.213	-24.700	1.00	64.01	A16S
ATOM	30661	O4*	C	A1452	100.434	28.606	-23.783	1.00	64.01	A16S
ATOM	30662	C1*	C	A1452	101.043	27.509	-24.424	1.00	64.01	A16S
ATOM	30663	N1	C	A1452	101.472	26.526	-23.422	1.00	66.68	A16S
ATOM	30664	C6	C	A1452	100.842	26.420	-22.213	1.00	66.68	A16S
ATOM	30665	C2	C	A1452	102.552	25.688	-23.732	1.00	66.68	A16S
ATOM	30666	O2	C	A1452	103.090	25.782	-24.852	1.00	66.68	A16S
ATOM	30667	N3	C	A1452	102.974	24.789	-22.812	1.00	66.68	A16S
ATOM	30668	C4	C	A1452	102.345	24.691	-21.637	1.00	66.68	A16S
ATOM	30669	N4	C	A1452	102.782	23.775	-20.767	1.00	66.68	A16S
ATOM	30670	C5	C	A1452	101.239	25.523	-21.302	1.00	66.68	A16S
ATOM	30671	C2*	C	A1452	100.018	27.004	-25.435	1.00	64.01	A16S
ATOM	30672	O2*	C	A1452	100.663	26.254	-26.449	1.00	64.01	A16S
ATOM	30673	C3*	C	A1452	99.440	28.322	-25.938	1.00	64.01	A16S
ATOM	30674	O3*	C	A1452	100.350	28.866	-26.877	1.00	64.01	A16S
ATOM	30675	P	G	A1453	99.816	29.443	-28.275	1.00	70.47	A16S
ATOM	30676	O1P	G	A1453	98.337	29.677	-28.214	1.00	60.10	A16S
ATOM	30677	O2P	G	A1453	100.387	28.569	-29.335	1.00	60.10	A16S
ATOM	30678	O5*	G	A1453	100.501	30.877	-28.382	1.00	70.47	A16S
ATOM	30679	C5*	G	A1453	101.695	31.204	-27.641	1.00	70.47	A16S
ATOM	30680	C4*	G	A1453	101.527	32.548	-26.976	1.00	70.47	A16S
ATOM	30681	O4*	G	A1453	100.560	32.437	-25.897	1.00	70.47	A16S
ATOM	30682	C1*	G	A1453	100.865	33.394	-24.906	1.00	70.47	A16S
ATOM	30683	N9	G	A1453	100.798	32.768	-23.587	1.00	60.10	A16S
ATOM	30684	C4	G	A1453	101.547	31.707	-23.105	1.00	60.10	A16S
ATOM	30685	N3	G	A1453	102.499	31.024	-23.778	1.00	60.10	A16S
ATOM	30686	C2	G	A1453	103.020	30.053	-23.043	1.00	60.10	A16S
ATOM	30687	N2	G	A1453	103.973	29.268	-23.546	1.00	60.10	A16S
ATOM	30688	N1	G	A1453	102.642	29.776	-21.762	1.00	60.10	A16S
ATOM	30689	C6	G	A1453	101.667	30.457	-21.054	1.00	60.10	A16S
ATOM	30690	O6	G	A1453	101.387	30.107	-19.907	1.00	60.10	A16S
ATOM	30691	C5	G	A1453	101.102	31.506	-21.817	1.00	60.10	A16S
ATOM	30692	N7	G	A1453	100.109	32.419	-21.488	1.00	60.10	A16S
ATOM	30693	C8	G	A1453	99.959	33.140	-22.565	1.00	60.10	A16S
ATOM	30694	C2*	G	A1453	102.192	34.075	-25.271	1.00	70.47	A16S
ATOM	30695	O2*	G	A1453	101.944	35.372	-25.785	1.00	70.47	A16S
ATOM	30696	C3*	G	A1453	102.770	33.131	-26.326	1.00	70.47	A16S
ATOM	30697	O3*	G	A1453	103.508	33.875	-27.292	1.00	70.47	A16S
ATOM	30698	P	G	A1454	105.012	33.450	-27.658	1.00	60.53	A16S
ATOM	30699	O1P	G	A1454	105.390	34.309	-28.803	1.00	65.60	A16S
ATOM	30700	O2P	G	A1454	105.076	31.977	-27.803	1.00	65.60	A16S
ATOM	30701	O5*	G	A1454	105.878	33.856	-26.379	1.00	60.53	A16S
ATOM	30702	C5*	G	A1454	105.796	35.179	-25.828	1.00	60.53	A16S
ATOM	30703	C4*	G	A1454	105.884	35.139	-24.318	1.00	60.53	A16S
ATOM	30704	O4*	G	A1454	105.050	34.051	-23.837	1.00	60.53	A16S
ATOM	30705	C1*	G	A1454	105.630	33.470	-22.674	1.00	60.53	A16S
ATOM	30706	N9	G	A1454	106.075	32.109	-22.988	1.00	65.60	A16S
ATOM	30707	C4	G	A1454	106.538	31.179	-22.080	1.00	65.60	A16S
ATOM	30708	N3	G	A1454	106.586	31.336	-20.746	1.00	65.60	A16S
ATOM	30709	C2	G	A1454	107.093	30.282	-20.142	1.00	65.60	A16S
ATOM	30710	N2	G	A1454	107.176	30.268	-18.808	1.00	65.60	A16S
ATOM	30711	N1	G	A1454	107.544	29.167	-20.794	1.00	65.60	A16S
ATOM	30712	C6	G	A1454	107.516	28.983	-22.167	1.00	65.60	A16S
ATOM	30713	O6	G	A1454	107.965	27.942	-22.652	1.00	65.60	A16S
ATOM	30714	C5	G	A1454	106.944	30.101	-22.832	1.00	65.60	A16S
ATOM	30715	N7	G	A1454	106.700	30.324	-24.182	1.00	65.60	A16S
ATOM	30716	C8	G	A1454	106.175	31.519	-24.227	1.00	65.60	A16S

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ATOM	30717	C2*	G	A1454	106.849	34.315	-22.319	1.00	60.53	A16S
ATOM	30718	O2*	G	A1454	106.473	35.322	-21.398	1.00	60.53	A16S
ATOM	30719	C3*	G	A1454	107.242	34.849	-23.691	1.00	60.53	A16S
ATOM	30720	O3*	G	A1454	108.101	35.978	-23.598	1.00	60.53	A16S
ATOM	30721	P	G	A1455	109.692	35.752	-23.435	1.00	55.84	A16S
ATOM	30722	O1P	G	A1455	110.362	37.070	-23.616	1.00	72.39	A16S
ATOM	30723	O2P	G	A1455	110.111	34.591	-24.269	1.00	72.39	A16S
ATOM	30724	O5*	G	A1455	109.858	35.343	-21.906	1.00	55.84	A16S
ATOM	30725	C5*	G	A1455	109.442	36.237	-20.868	1.00	55.84	A16S
ATOM	30726	C4*	G	A1455	109.677	35.605	-19.531	1.00	55.84	A16S
ATOM	30727	O4*	G	A1455	108.888	34.390	-19.450	1.00	55.84	A16S
ATOM	30728	C1*	G	A1455	109.622	33.391	-18.750	1.00	55.84	A16S
ATOM	30729	N9	G	A1455	109.930	32.294	-19.670	1.00	72.39	A16S
ATOM	30730	C4	G	A1455	110.482	31.068	-19.334	1.00	72.39	A16S
ATOM	30731	N3	G	A1455	110.801	30.648	-18.089	1.00	72.39	A16S
ATOM	30732	C2	G	A1455	111.312	29.432	-18.096	1.00	72.39	A16S
ATOM	30733	N2	G	A1455	111.654	28.847	-16.941	1.00	72.39	A16S
ATOM	30734	N1	G	A1455	111.516	28.697	-19.233	1.00	72.39	A16S
ATOM	30735	C6	G	A1455	111.203	29.114	-20.522	1.00	72.39	A16S
ATOM	30736	O6	G	A1455	111.439	28.381	-21.481	1.00	72.39	A16S
ATOM	30737	C5	G	A1455	110.635	30.399	-20.529	1.00	72.39	A16S
ATOM	30738	N7	G	A1455	110.174	31.168	-21.590	1.00	72.39	A16S
ATOM	30739	C8	G	A1455	109.764	32.279	-21.037	1.00	72.39	A16S
ATOM	30740	C2*	G	A1455	110.918	34.035	-18.263	1.00	55.84	A16S
ATOM	30741	O2*	G	A1455	110.757	34.511	-16.935	1.00	55.84	A16S
ATOM	30742	C3*	G	A1455	111.102	35.137	-19.293	1.00	55.84	A16S
ATOM	30743	O3*	G	A1455	111.979	36.156	-18.854	1.00	55.84	A16S
ATOM	30744	P	C	A1459	113.528	36.088	-19.276	1.00	61.86	A16S
ATOM	30745	O1P	C	A1459	114.114	37.413	-18.953	1.00	67.49	A16S
ATOM	30746	O2P	C	A1459	113.637	35.546	-20.667	1.00	67.49	A16S
ATOM	30747	O5*	C	A1459	114.172	35.022	-18.281	1.00	61.86	A16S
ATOM	30748	C5*	C	A1459	114.100	35.194	-16.845	1.00	61.86	A16S
ATOM	30749	C4*	C	A1459	114.595	33.946	-16.142	1.00	61.86	A16S
ATOM	30750	O4*	C	A1459	113.710	32.834	-16.445	1.00	61.86	A16S
ATOM	30751	C1*	C	A1459	114.464	31.641	-16.598	1.00	61.86	A16S
ATOM	30752	N1	C	A1459	114.355	31.176	-17.995	1.00	67.49	A16S
ATOM	30753	C6	C	A1459	113.778	31.955	-18.956	1.00	67.49	A16S
ATOM	30754	C2	C	A1459	114.872	29.919	-18.328	1.00	67.49	A16S
ATOM	30755	O2	C	A1459	115.382	29.222	-17.434	1.00	67.49	A16S
ATOM	30756	N3	C	A1459	114.806	29.495	-19.612	1.00	67.49	A16S
ATOM	30757	C4	C	A1459	114.246	30.271	-20.543	1.00	67.49	A16S
ATOM	30758	N4	C	A1459	114.201	29.817	-21.803	1.00	67.49	A16S
ATOM	30759	C5	C	A1459	113.704	31.547	-20.229	1.00	67.49	A16S
ATOM	30760	C2*	C	A1459	115.912	31.972	-16.263	1.00	61.86	A16S
ATOM	30761	O2*	C	A1459	116.147	31.678	-14.902	1.00	61.86	A16S
ATOM	30762	C3*	C	A1459	115.963	33.457	-16.588	1.00	61.86	A16S
ATOM	30763	O3*	C	A1459	117.043	34.126	-15.951	1.00	61.86	A16S
ATOM	30764	P	A	A1460	118.432	34.304	-16.748	1.00	67.01	A16S
ATOM	30765	O1P	A	A1460	119.293	35.213	-15.941	1.00	72.84	A16S
ATOM	30766	O2P	A	A1460	118.093	34.666	-18.157	1.00	72.84	A16S
ATOM	30767	O5*	A	A1460	119.069	32.835	-16.772	1.00	67.01	A16S
ATOM	30768	C5*	A	A1460	119.245	32.077	-15.553	1.00	67.01	A16S
ATOM	30769	C4*	A	A1460	119.630	30.643	-15.857	1.00	67.01	A16S
ATOM	30770	O4*	A	A1460	118.554	29.970	-16.548	1.00	67.01	A16S
ATOM	30771	C1*	A	A1460	119.091	28.988	-17.418	1.00	67.01	A16S
ATOM	30772	N9	A	A1460	118.650	29.281	-18.776	1.00	72.84	A16S
ATOM	30773	C4	A	A1460	118.888	28.502	-19.880	1.00	72.84	A16S
ATOM	30774	N3	A	A1460	119.553	27.335	-19.926	1.00	72.84	A16S
ATOM	30775	C2	A	A1460	119.584	26.862	-21.175	1.00	72.84	A16S
ATOM	30776	N1	A	A1460	119.066	27.389	-22.296	1.00	72.84	A16S
ATOM	30777	C6	A	A1460	118.408	28.567	-22.209	1.00	72.84	A16S
ATOM	30778	N6	A	A1460	117.896	29.103	-23.321	1.00	72.84	A16S
ATOM	30779	C5	A	A1460	118.301	29.166	-20.940	1.00	72.84	A16S
ATOM	30780	N7	A	A1460	117.698	30.339	-20.511	1.00	72.84	A16S
ATOM	30781	C8	A	A1460	117.935	30.360	-19.224	1.00	72.84	A16S
ATOM	30782	C2*	A	A1460	120.611	29.030	-17.303	1.00	67.01	A16S
ATOM	30783	O2*	A	A1460	121.056	28.012	-16.434	1.00	67.01	A16S
ATOM	30784	C3*	A	A1460	120.841	30.425	-16.745	1.00	67.01	A16S
ATOM	30785	O3*	A	A1460	122.050	30.463	-16.012	1.00	67.01	A16S
ATOM	30786	P	G	A1461	123.342	31.136	-16.674	1.00	74.63	A16S
ATOM	30787	O1P	G	A1461	124.511	30.842	-15.799	1.00	68.03	A16S
ATOM	30788	O2P	G	A1461	122.968	32.553	-16.969	1.00	68.03	A16S
ATOM	30789	O5*	G	A1461	123.538	30.338	-18.040	1.00	74.63	A16S
ATOM	30790	C5*	G	A1461	123.973	28.973	-18.030	1.00	74.63	A16S
ATOM	30791	C4*	G	A1461	123.945	28.400	-19.428	1.00	74.63	A16S
ATOM	30792	O4*	G	A1461	122.578	28.345	-19.914	1.00	74.63	A16S
ATOM	30793	C1*	G	A1461	122.555	28.585	-21.313	1.00	74.63	A16S

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ATOM	30794	N9	G	A1461	121.850	29.843	-21.543	1.00	68.03	A16S
ATOM	30795	C4	G	A1461	121.386	30.308	-22.750	1.00	68.03	A16S
ATOM	30796	N3	G	A1461	121.461	29.663	-23.933	1.00	68.03	A16S
ATOM	30797	C2	G	A1461	120.954	30.385	-24.923	1.00	68.03	A16S
ATOM	30798	N2	G	A1461	120.936	29.900	-26.171	1.00	68.03	A16S
ATOM	30799	N1	G	A1461	120.425	31.636	-24.765	1.00	68.03	A16S
ATOM	30800	C6	G	A1461	120.338	32.319	-23.560	1.00	68.03	A16S
ATOM	30801	O6	G	A1461	119.846	33.447	-23.532	1.00	68.03	A16S
ATOM	30802	C5	G	A1461	120.870	31.559	-22.485	1.00	68.03	A16S
ATOM	30803	N7	G	A1461	120.982	31.865	-21.133	1.00	68.03	A16S
ATOM	30804	C8	G	A1461	121.558	30.817	-20.613	1.00	68.03	A16S
ATOM	30805	C2*	G	A1461	124.006	28.707	-21.777	1.00	74.63	A16S
ATOM	30806	O2*	G	A1461	124.483	27.449	-22.211	1.00	74.63	A16S
ATOM	30807	C3*	G	A1461	124.691	29.177	-20.502	1.00	74.63	A16S
ATOM	30808	O3*	G	A1461	126.080	28.895	-20.509	1.00	74.63	A16S
ATOM	30809	P	G	A1462	127.110	30.002	-21.056	1.00	74.97	A16S
ATOM	30810	O1P	G	A1462	128.484	29.488	-20.777	1.00	66.98	A16S
ATOM	30811	O2P	G	A1462	126.701	31.342	-20.533	1.00	66.98	A16S
ATOM	30812	O5*	G	A1462	126.860	29.981	-22.630	1.00	74.97	A16S
ATOM	30813	C5*	G	A1462	126.989	28.758	-23.371	1.00	74.97	A16S
ATOM	30814	C4*	G	A1462	126.560	28.964	-24.799	1.00	74.97	A16S
ATOM	30815	O4*	G	A1462	125.137	29.235	-24.848	1.00	74.97	A16S
ATOM	30816	C1*	G	A1462	124.857	30.139	-25.906	1.00	74.97	A16S
ATOM	30817	N9	G	A1462	124.262	31.351	-25.346	1.00	66.98	A16S
ATOM	30818	C4	G	A1462	123.623	32.337	-26.056	1.00	66.98	A16S
ATOM	30819	N3	G	A1462	123.418	32.343	-27.390	1.00	66.98	A16S
ATOM	30820	C2	G	A1462	122.798	33.440	-27.789	1.00	66.98	A16S
ATOM	30821	N2	G	A1462	122.525	33.610	-29.091	1.00	66.98	A16S
ATOM	30822	N1	G	A1462	122.401	34.449	-26.942	1.00	66.98	A16S
ATOM	30823	C6	G	A1462	122.596	34.462	-25.566	1.00	66.98	A16S
ATOM	30824	O6	G	A1462	122.194	35.420	-24.894	1.00	66.98	A16S
ATOM	30825	C5	G	A1462	123.271	33.291	-25.125	1.00	66.98	A16S
ATOM	30826	N7	G	A1462	123.668	32.906	-23.852	1.00	66.98	A16S
ATOM	30827	C8	G	A1462	124.246	31.749	-24.029	1.00	66.98	A16S
ATOM	30828	C2*	G	A1462	126.178	30.450	-26.607	1.00	74.97	A16S
ATOM	30829	O2*	G	A1462	126.318	29.621	-27.740	1.00	74.97	A16S
ATOM	30830	C3*	G	A1462	127.184	30.149	-25.506	1.00	74.97	A16S
ATOM	30831	O3*	G	A1462	128.473	29.868	-26.002	1.00	74.97	A16S
ATOM	30832	P	C	A1463	129.551	31.053	-26.079	1.00	73.15	A16S
ATOM	30833	O1P	C	A1463	130.852	30.432	-26.457	1.00	67.61	A16S
ATOM	30834	O2P	C	A1463	129.452	31.841	-24.821	1.00	67.61	A16S
ATOM	30835	O5*	C	A1463	129.053	31.933	-27.314	1.00	73.15	A16S
ATOM	30836	C5*	C	A1463	129.024	31.348	-28.623	1.00	73.15	A16S
ATOM	30837	C4*	C	A1463	128.361	32.263	-29.620	1.00	73.15	A16S
ATOM	30838	O4*	C	A1463	126.955	32.432	-29.298	1.00	73.15	A16S
ATOM	30839	C1*	C	A1463	126.534	33.735	-29.676	1.00	73.15	A16S
ATOM	30840	N1	C	A1463	126.227	34.495	-28.454	1.00	67.61	A16S
ATOM	30841	C6	C	A1463	126.861	34.208	-27.274	1.00	67.61	A16S
ATOM	30842	C2	C	A1463	125.299	35.544	-28.523	1.00	67.61	A16S
ATOM	30843	O2	C	A1463	124.724	35.774	-29.603	1.00	67.61	A16S
ATOM	30844	N3	C	A1463	125.058	36.280	-27.412	1.00	67.61	A16S
ATOM	30845	C4	C	A1463	125.705	36.003	-26.272	1.00	67.61	A16S
ATOM	30846	N4	C	A1463	125.462	36.770	-25.208	1.00	67.61	A16S
ATOM	30847	C5	C	A1463	126.636	34.931	-26.174	1.00	67.61	A16S
ATOM	30848	C2*	C	A1463	127.716	34.403	-30.371	1.00	73.15	A16S
ATOM	30849	O2*	C	A1463	127.620	34.190	-31.767	1.00	73.15	A16S
ATOM	30850	C3*	C	A1463	128.885	33.680	-29.715	1.00	73.15	A16S
ATOM	30851	O3*	C	A1463	130.091	33.790	-30.440	1.00	73.15	A16S
ATOM	30852	P	G	A1464	131.166	34.902	-29.997	1.00	77.22	A16S
ATOM	30853	O1P	G	A1464	132.363	34.664	-30.847	1.00	67.54	A16S
ATOM	30854	O2P	G	A1464	131.304	34.907	-28.511	1.00	67.54	A16S
ATOM	30855	O5*	G	A1464	130.482	36.275	-30.431	1.00	77.22	A16S
ATOM	30856	C5*	G	A1464	130.148	36.511	-31.810	1.00	77.22	A16S
ATOM	30857	C4*	G	A1464	129.401	37.813	-31.972	1.00	77.22	A16S
ATOM	30858	O4*	G	A1464	128.116	37.732	-31.305	1.00	77.22	A16S
ATOM	30859	C1*	G	A1464	127.739	39.019	-30.847	1.00	77.22	A16S
ATOM	30860	N9	G	A1464	127.657	38.993	-29.394	1.00	67.54	A16S
ATOM	30861	C4	G	A1464	127.018	39.916	-28.608	1.00	67.54	A16S
ATOM	30862	N3	G	A1464	126.315	40.976	-29.052	1.00	67.54	A16S
ATOM	30863	C2	G	A1464	125.849	41.708	-28.059	1.00	67.54	A16S
ATOM	30864	N2	G	A1464	125.140	42.810	-28.326	1.00	67.54	A16S
ATOM	30865	N1	G	A1464	126.052	41.419	-26.731	1.00	67.54	A16S
ATOM	30866	C6	G	A1464	126.783	40.338	-26.251	1.00	67.54	A16S
ATOM	30867	O6	G	A1464	126.937	40.189	-25.033	1.00	67.54	A16S
ATOM	30868	C5	G	A1464	127.283	39.540	-27.311	1.00	67.54	A16S
ATOM	30869	N7	G	A1464	128.050	38.384	-27.282	1.00	67.54	A16S
ATOM	30870	C8	G	A1464	128.238	38.090	-28.539	1.00	67.54	A16S

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ATOM	30871	C2*	G	A1464	128.839	39.995	-31.258	1.00	77.22	A16S
ATOM	30872	O2*	G	A1464	128.505	40.621	-32.478	1.00	77.22	A16S
ATOM	30873	C3*	G	A1464	130.034	39.064	-31.388	1.00	77.22	A16S
ATOM	30874	O3*	G	A1464	131.037	39.630	-32.208	1.00	77.22	A16S
ATOM	30875	P	C	A1465	132.076	40.679	-31.570	1.00	70.48	A16S
ATOM	30876	O1P	C	A1465	133.084	40.930	-32.624	1.00	68.25	A16S
ATOM	30877	O2P	C	A1465	132.518	40.205	-30.231	1.00	68.25	A16S
ATOM	30878	O5*	C	A1465	131.222	42.015	-31.386	1.00	70.48	A16S
ATOM	30879	C5*	C	A1465	130.776	42.765	-32.537	1.00	70.48	A16S
ATOM	30880	C4*	C	A1465	130.188	44.091	-32.117	1.00	70.48	A16S
ATOM	30881	O4*	C	A1465	128.973	43.865	-31.361	1.00	70.48	A16S
ATOM	30882	C1*	C	A1465	128.830	44.874	-30.374	1.00	70.48	A16S
ATOM	30883	N1	C	A1465	128.753	44.239	-29.038	1.00	68.25	A16S
ATOM	30884	C6	C	A1465	129.324	43.018	-28.802	1.00	68.25	A16S
ATOM	30885	C2	C	A1465	128.086	44.921	-27.998	1.00	68.25	A16S
ATOM	30886	O2	C	A1465	127.554	46.021	-28.235	1.00	68.25	A16S
ATOM	30887	N3	C	A1465	128.038	44.364	-26.765	1.00	68.25	A16S
ATOM	30888	C4	C	A1465	128.613	43.179	-26.546	1.00	68.25	A16S
ATOM	30889	N4	C	A1465	128.556	42.675	-25.305	1.00	68.25	A16S
ATOM	30890	C5	C	A1465	129.278	42.457	-27.586	1.00	68.25	A16S
ATOM	30891	C2*	C	A1465	130.011	45.839	-30.519	1.00	70.48	A16S
ATOM	30892	O2*	C	A1465	129.631	46.947	-31.316	1.00	70.48	A16S
ATOM	30893	C3*	C	A1465	131.046	44.964	-31.214	1.00	70.48	A16S
ATOM	30894	O3*	C	A1465	131.965	45.753	-31.957	1.00	70.48	A16S
ATOM	30895	P	C	A1466	133.317	46.278	-31.256	1.00	66.46	A16S
ATOM	30896	O1P	C	A1466	133.955	47.198	-32.239	1.00	80.35	A16S
ATOM	30897	O2P	C	A1466	134.089	45.121	-30.723	1.00	80.35	A16S
ATOM	30898	O5*	C	A1466	132.817	47.168	-30.032	1.00	66.46	A16S
ATOM	30899	C5*	C	A1466	132.148	48.424	-30.263	1.00	66.46	A16S
ATOM	30900	C4*	C	A1466	131.608	48.988	-28.968	1.00	66.46	A16S
ATOM	30901	O4*	C	A1466	130.626	48.077	-28.406	1.00	66.46	A16S
ATOM	30902	C1*	C	A1466	130.699	48.117	-26.992	1.00	66.46	A16S
ATOM	30903	N1	C	A1466	131.013	46.768	-26.481	1.00	80.35	A16S
ATOM	30904	C6	C	A1466	131.656	45.844	-27.257	1.00	80.35	A16S
ATOM	30905	C2	C	A1466	130.645	46.451	-25.172	1.00	80.35	A16S
ATOM	30906	O2	C	A1466	130.048	47.300	-24.496	1.00	80.35	A16S
ATOM	30907	N3	C	A1466	130.943	45.231	-24.676	1.00	80.35	A16S
ATOM	30908	C4	C	A1466	131.575	44.340	-25.436	1.00	80.35	A16S
ATOM	30909	N4	C	A1466	131.850	43.151	-24.902	1.00	80.35	A16S
ATOM	30910	C5	C	A1466	131.953	44.630	-26.778	1.00	80.35	A16S
ATOM	30911	C2*	C	A1466	131.760	49.146	-26.604	1.00	66.46	A16S
ATOM	30912	O2*	C	A1466	131.129	50.379	-26.330	1.00	66.46	A16S
ATOM	30913	C3*	C	A1466	132.621	49.193	-27.857	1.00	66.46	A16S
ATOM	30914	O3*	C	A1466	133.289	50.435	-27.982	1.00	66.46	A16S
ATOM	30915	P	G	A1467	134.882	50.495	-27.786	1.00	63.33	A16S
ATOM	30916	O1P	G	A1467	135.306	51.914	-27.951	1.00	78.84	A16S
ATOM	30917	O2P	G	A1467	135.482	49.434	-28.641	1.00	78.84	A16S
ATOM	30918	O5*	G	A1467	135.126	50.082	-26.269	1.00	63.33	A16S
ATOM	30919	C5*	G	A1467	134.542	50.843	-25.209	1.00	63.33	A16S
ATOM	30920	C4*	G	A1467	134.453	50.011	-23.960	1.00	63.33	A16S
ATOM	30921	O4*	G	A1467	133.702	48.801	-24.240	1.00	63.33	A16S
ATOM	30922	C1*	G	A1467	134.208	47.736	-23.456	1.00	63.33	A16S
ATOM	30923	N9	G	A1467	134.666	46.675	-24.347	1.00	78.84	A16S
ATOM	30924	C4	G	A1467	134.803	45.353	-24.013	1.00	78.84	A16S
ATOM	30925	N3	G	A1467	134.519	44.810	-22.814	1.00	78.84	A16S
ATOM	30926	C2	G	A1467	134.761	43.515	-22.788	1.00	78.84	A16S
ATOM	30927	N2	G	A1467	134.535	42.821	-21.667	1.00	78.84	A16S
ATOM	30928	N1	G	A1467	135.244	42.805	-23.858	1.00	78.84	A16S
ATOM	30929	C6	G	A1467	135.543	43.340	-25.106	1.00	78.84	A16S
ATOM	30930	O6	G	A1467	135.974	42.603	-26.007	1.00	78.84	A16S
ATOM	30931	C5	G	A1467	135.288	44.736	-25.146	1.00	78.84	A16S
ATOM	30932	N7	G	A1467	135.445	45.653	-26.177	1.00	78.84	A16S
ATOM	30933	C8	G	A1467	135.060	46.788	-25.660	1.00	78.84	A16S
ATOM	30934	C2*	G	A1467	135.347	48.288	-22.599	1.00	63.33	A16S
ATOM	30935	O2*	G	A1467	134.840	48.614	-21.317	1.00	63.33	A16S
ATOM	30936	C3*	G	A1467	135.772	49.509	-23.408	1.00	63.33	A16S
ATOM	30937	O3*	G	A1467	136.418	50.496	-22.623	1.00	63.33	A16S
ATOM	30938	P	A	A1468	137.961	50.843	-22.905	1.00	58.66	A16S
ATOM	30939	O1P	A	A1468	138.018	52.260	-23.336	1.00	69.76	A16S
ATOM	30940	O2P	A	A1468	138.550	49.792	-23.776	1.00	69.76	A16S
ATOM	30941	O5*	A	A1468	138.640	50.725	-21.468	1.00	58.66	A16S
ATOM	30942	C5*	A	A1468	138.227	51.592	-20.394	1.00	58.66	A16S
ATOM	30943	C4*	A	A1468	138.506	50.955	-19.054	1.00	58.66	A16S
ATOM	30944	O4*	A	A1468	137.775	49.708	-18.952	1.00	58.66	A16S
ATOM	30945	C1*	A	A1468	138.530	48.772	-18.203	1.00	58.66	A16S
ATOM	30946	N9	A	A1468	138.838	47.639	-19.063	1.00	69.76	A16S
ATOM	30947	C4	A	A1468	139.225	46.394	-18.635	1.00	69.76	A16S

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ATOM	30948	N3	A	A1468	139.378	45.981	-17.363	1.00	69.76	A16S
ATOM	30949	C2	A	A1468	139.755	44.706	-17.332	1.00	69.76	A16S
ATOM	30950	N1	A	A1468	139.982	43.864	-18.352	1.00	69.76	A16S
ATOM	30951	C6	A	A1468	139.823	44.321	-19.616	1.00	69.76	A16S
ATOM	30952	N6	A	A1468	140.052	43.493	-20.635	1.00	69.76	A16S
ATOM	30953	C5	A	A1468	139.424	45.650	-19.782	1.00	69.76	A16S
ATOM	30954	N7	A	A1468	139.169	46.411	-20.914	1.00	69.76	A16S
ATOM	30955	C8	A	A1468	138.824	47.580	-20.434	1.00	69.76	A16S
ATOM	30956	C2*	A	A1468	139.812	49.458	-17.745	1.00	58.66	A16S
ATOM	30957	O2*	A	A1468	139.624	49.865	-16.405	1.00	58.66	A16S
ATOM	30958	C3*	A	A1468	139.949	50.574	-18.782	1.00	58.66	A16S
ATOM	30959	O3*	A	A1468	140.707	51.690	-18.337	1.00	58.66	A16S
ATOM	30960	P	G	A1469	142.109	52.024	-19.048	1.00	64.04	A16S
ATOM	30961	O1P	G	A1469	142.782	53.068	-18.239	1.00	68.35	A16S
ATOM	30962	O2P	G	A1469	141.851	52.266	-20.490	1.00	68.35	A16S
ATOM	30963	O5*	G	A1469	142.933	50.673	-18.897	1.00	64.04	A16S
ATOM	30964	C5*	G	A1469	143.163	50.132	-17.599	1.00	64.04	A16S
ATOM	30965	C4*	G	A1469	143.516	48.671	-17.679	1.00	64.04	A16S
ATOM	30966	O4*	G	A1469	142.420	47.927	-18.268	1.00	64.04	A16S
ATOM	30967	C1*	G	A1469	142.932	46.807	-18.976	1.00	64.04	A16S
ATOM	30968	N9	G	A1469	142.642	46.979	-20.397	1.00	68.35	A16S
ATOM	30969	C4	G	A1469	142.797	46.026	-21.371	1.00	68.35	A16S
ATOM	30970	N3	G	A1469	143.215	44.756	-21.175	1.00	68.35	A16S
ATOM	30971	C2	G	A1469	143.298	44.084	-22.311	1.00	68.35	A16S
ATOM	30972	N2	G	A1469	143.715	42.806	-22.300	1.00	68.35	A16S
ATOM	30973	N1	G	A1469	142.983	44.620	-23.540	1.00	68.35	A16S
ATOM	30974	C6	G	A1469	142.547	45.927	-23.756	1.00	68.35	A16S
ATOM	30975	O6	G	A1469	142.291	46.314	-24.900	1.00	68.35	A16S
ATOM	30976	C5	G	A1469	142.465	46.653	-22.552	1.00	68.35	A16S
ATOM	30977	N7	G	A1469	142.091	47.969	-22.325	1.00	68.35	A16S
ATOM	30978	C8	G	A1469	142.204	48.117	-21.034	1.00	68.35	A16S
ATOM	30979	C2*	G	A1469	144.446	46.802	-18.768	1.00	64.04	A16S
ATOM	30980	O2*	G	A1469	144.769	46.029	-17.626	1.00	64.04	A16S
ATOM	30981	C3*	G	A1469	144.714	48.277	-18.527	1.00	64.04	A16S
ATOM	30982	O3*	G	A1469	145.951	48.469	-17.870	1.00	64.04	A16S
ATOM	30983	P	G	A1470	147.264	48.767	-18.739	1.00	85.75	A16S
ATOM	30984	O1P	G	A1470	148.316	49.154	-17.759	1.00	61.22	A16S
ATOM	30985	O2P	G	A1470	146.919	49.687	-19.850	1.00	61.22	A16S
ATOM	30986	O5*	G	A1470	147.607	47.356	-19.392	1.00	85.75	A16S
ATOM	30987	C5*	G	A1470	147.990	46.245	-18.569	1.00	85.75	A16S
ATOM	30988	C4*	G	A1470	148.176	45.006	-19.410	1.00	85.75	A16S
ATOM	30989	O4*	G	A1470	146.912	44.643	-20.030	1.00	85.75	A16S
ATOM	30990	C1*	G	A1470	147.151	44.047	-21.297	1.00	85.75	A16S
ATOM	30991	N9	G	A1470	146.570	44.894	-22.334	1.00	61.22	A16S
ATOM	30992	C4	G	A1470	146.359	44.542	-23.648	1.00	61.22	A16S
ATOM	30993	N3	G	A1470	146.611	43.334	-24.198	1.00	61.22	A16S
ATOM	30994	C2	G	A1470	146.322	43.308	-25.497	1.00	61.22	A16S
ATOM	30995	N2	G	A1470	146.501	42.176	-26.206	1.00	61.22	A16S
ATOM	30996	N1	G	A1470	145.834	44.383	-26.197	1.00	61.22	A16S
ATOM	30997	C6	G	A1470	145.567	45.633	-25.653	1.00	61.22	A16S
ATOM	30998	O6	G	A1470	145.130	46.534	-26.375	1.00	61.22	A16S
ATOM	30999	C5	G	A1470	145.865	45.675	-24.256	1.00	61.22	A16S
ATOM	31000	N7	G	A1470	145.742	46.713	-23.339	1.00	61.22	A16S
ATOM	31001	C8	G	A1470	146.165	46.204	-22.215	1.00	61.22	A16S
ATOM	31002	C2*	G	A1470	148.665	43.978	-21.482	1.00	85.75	A16S
ATOM	31003	O2*	G	A1470	149.148	42.721	-21.047	1.00	85.75	A16S
ATOM	31004	C3*	G	A1470	149.134	45.113	-20.583	1.00	85.75	A16S
ATOM	31005	O3*	G	A1470	150.496	44.964	-20.229	1.00	85.75	A16S
ATOM	31006	P	G	A1471	151.631	45.440	-21.265	1.00	86.87	A16S
ATOM	31007	O1P	G	A1471	152.923	45.140	-20.610	1.00	86.33	A16S
ATOM	31008	O2P	G	A1471	151.348	46.820	-21.732	1.00	86.33	A16S
ATOM	31009	O5*	G	A1471	151.450	44.479	-22.527	1.00	86.87	A16S
ATOM	31010	C5*	G	A1471	151.727	43.061	-22.437	1.00	86.87	A16S
ATOM	31011	C4*	G	A1471	151.662	42.422	-23.808	1.00	86.87	A16S
ATOM	31012	O4*	G	A1471	150.314	42.537	-24.331	1.00	86.87	A16S
ATOM	31013	C1*	G	A1471	150.355	42.809	-25.723	1.00	86.87	A16S
ATOM	31014	N9	G	A1471	149.766	44.127	-25.943	1.00	86.33	A16S
ATOM	31015	C4	G	A1471	149.329	44.631	-27.143	1.00	86.33	A16S
ATOM	31016	N3	G	A1471	149.375	43.994	-28.331	1.00	86.33	A16S
ATOM	31017	C2	G	A1471	148.885	44.739	-29.309	1.00	86.33	A16S
ATOM	31018	N2	G	A1471	148.863	44.265	-30.567	1.00	86.33	A16S
ATOM	31019	N1	G	A1471	148.381	46.006	-29.132	1.00	86.33	A16S
ATOM	31020	C6	G	A1471	148.319	46.681	-27.918	1.00	86.33	A16S
ATOM	31021	O6	G	A1471	147.838	47.821	-27.870	1.00	86.33	A16S
ATOM	31022	C5	G	A1471	148.853	45.897	-26.858	1.00	86.33	A16S
ATOM	31023	N7	G	A1471	148.994	46.187	-25.506	1.00	86.33	A16S
ATOM	31024	C8	G	A1471	149.538	45.112	-25.002	1.00	86.33	A16S

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ATOM	31025	C2*	G	A1471	151.815	42.752	-26.164	1.00	86.87	A16S
ATOM	31026	O2*	G	A1471	152.088	41.463	-26.676	1.00	86.87	A16S
ATOM	31027	C3*	G	A1471	152.537	43.081	-24.860	1.00	86.87	A16S
ATOM	31028	O3*	G	A1471	153.877	42.612	-24.795	1.00	86.87	A16S
ATOM	31029	P	U	A1472	155.078	43.594	-25.211	1.00107.15		A16S
ATOM	31030	O1P	U	A1472	156.335	42.964	-24.728	1.00103.66		A16S
ATOM	31031	O2P	U	A1472	154.745	44.976	-24.789	1.00103.66		A16S
ATOM	31032	O5*	U	A1472	155.051	43.546	-26.802	1.00107.15		A16S
ATOM	31033	C5*	U	A1472	155.364	42.331	-27.500	1.00107.15		A16S
ATOM	31034	C4*	U	A1472	155.194	42.517	-28.986	1.00107.15		A16S
ATOM	31035	O4*	U	A1472	153.787	42.698	-29.297	1.00107.15		A16S
ATOM	31036	C1*	U	A1472	153.653	43.576	-30.407	1.00107.15		A16S
ATOM	31037	N1	U	A1472	152.876	44.757	-29.992	1.00103.66		A16S
ATOM	31038	C6	U	A1472	152.975	45.265	-28.711	1.00103.66		A16S
ATOM	31039	C2	U	A1472	152.047	45.364	-30.939	1.00103.66		A16S
ATOM	31040	O2	U	A1472	151.902	44.940	-32.080	1.00103.66		A16S
ATOM	31041	N3	U	A1472	151.391	46.487	-30.495	1.00103.66		A16S
ATOM	31042	C4	U	A1472	151.464	47.052	-29.237	1.00103.66		A16S
ATOM	31043	O4	U	A1472	150.842	48.088	-29.005	1.00103.66		A16S
ATOM	31044	C5	U	A1472	152.316	46.359	-28.315	1.00103.66		A16S
ATOM	31045	C2*	U	A1472	155.060	43.967	-30.865	1.00107.15		A16S
ATOM	31046	O2*	U	A1472	155.455	43.155	-31.957	1.00107.15		A16S
ATOM	31047	C3*	U	A1472	155.873	43.736	-29.595	1.00107.15		A16S
ATOM	31048	O3*	U	A1472	157.264	43.543	-29.847	1.00107.15		A16S
ATOM	31049	P	A	A1473	158.241	44.824	-29.934	1.00125.92		A16S
ATOM	31050	O1P	A	A1473	159.600	44.304	-30.251	1.00104.79		A16S
ATOM	31051	O2P	A	A1473	158.050	45.673	-28.726	1.00104.79		A16S
ATOM	31052	O5*	A	A1473	157.689	45.622	-31.201	1.00125.92		A16S
ATOM	31053	C5*	A	A1473	157.704	45.009	-32.503	1.00125.92		A16S
ATOM	31054	C4*	A	A1473	157.169	45.952	-33.555	1.00125.92		A16S
ATOM	31055	O4*	A	A1473	155.725	46.059	-33.465	1.00125.92		A16S
ATOM	31056	C1*	A	A1473	155.320	47.347	-33.905	1.00125.92		A16S
ATOM	31057	N9	A	A1473	154.654	48.039	-32.801	1.00104.79		A16S
ATOM	31058	C4	A	A1473	153.784	49.097	-32.935	1.00104.79		A16S
ATOM	31059	N3	A	A1473	153.357	49.663	-34.080	1.00104.79		A16S
ATOM	31060	C2	A	A1473	152.537	50.683	-33.823	1.00104.79		A16S
ATOM	31061	N1	A	A1473	152.127	51.167	-32.642	1.00104.79		A16S
ATOM	31062	C6	A	A1473	152.576	50.578	-31.512	1.00104.79		A16S
ATOM	31063	N6	A	A1473	152.171	51.066	-30.341	1.00104.79		A16S
ATOM	31064	C5	A	A1473	153.451	49.479	-31.647	1.00104.79		A16S
ATOM	31065	N7	A	A1473	154.083	48.664	-30.715	1.00104.79		A16S
ATOM	31066	C8	A	A1473	154.776	47.825	-31.448	1.00104.79		A16S
ATOM	31067	C2*	A	A1473	156.579	48.111	-34.320	1.00125.92		A16S
ATOM	31068	O2*	A	A1473	156.767	48.010	-35.719	1.00125.92		A16S
ATOM	31069	C3*	A	A1473	157.653	47.391	-33.514	1.00125.92		A16S
ATOM	31070	O3*	A	A1473	158.954	47.573	-34.052	1.00125.92		A16S
ATOM	31071	P	G	A1474	159.880	48.760	-33.487	1.00138.12		A16S
ATOM	31072	O1P	G	A1474	161.231	48.574	-34.069	1.00134.26		A16S
ATOM	31073	O2P	G	A1474	159.725	48.818	-32.011	1.00134.26		A16S
ATOM	31074	O5*	G	A1474	159.227	50.073	-34.116	1.00138.12		A16S
ATOM	31075	C5*	G	A1474	159.158	50.245	-35.549	1.00138.12		A16S
ATOM	31076	C4*	G	A1474	158.274	51.421	-35.917	1.00138.12		A16S
ATOM	31077	O4*	G	A1474	156.908	51.166	-35.486	1.00138.12		A16S
ATOM	31078	C1*	G	A1474	156.285	52.390	-35.116	1.00138.12		A16S
ATOM	31079	N9	G	A1474	156.004	52.359	-33.681	1.00134.26		A16S
ATOM	31080	C4	G	A1474	155.064	53.116	-33.018	1.00134.26		A16S
ATOM	31081	N3	G	A1474	154.206	53.990	-33.586	1.00134.26		A16S
ATOM	31082	C2	G	A1474	153.444	54.585	-32.687	1.00134.26		A16S
ATOM	31083	N2	G	A1474	152.540	55.490	-33.077	1.00134.26		A16S
ATOM	31084	N1	G	A1474	153.516	54.338	-31.337	1.00134.26		A16S
ATOM	31085	C6	G	A1474	154.396	53.445	-30.730	1.00134.26		A16S
ATOM	31086	O6	G	A1474	154.392	53.311	-29.500	1.00134.26		A16S
ATOM	31087	C5	G	A1474	155.216	52.799	-31.683	1.00134.26		A16S
ATOM	31088	N7	G	A1474	156.213	51.848	-31.510	1.00134.26		A16S
ATOM	31089	C8	G	A1474	156.646	51.611	-32.719	1.00134.26		A16S
ATOM	31090	C2*	G	A1474	157.278	53.513	-35.408	1.00138.12		A16S
ATOM	31091	O2*	G	A1474	157.044	54.059	-36.693	1.00138.12		A16S
ATOM	31092	C3*	G	A1474	158.606	52.774	-35.300	1.00138.12		A16S
ATOM	31093	O3*	G	A1474	159.661	53.477	-35.942	1.00138.12		A16S
ATOM	31094	P	G	A1475	160.524	54.543	-35.096	1.00146.17		A16S
ATOM	31095	O1P	G	A1475	161.615	55.018	-35.978	1.00149.24		A16S
ATOM	31096	O2P	G	A1475	160.857	53.948	-33.775	1.00149.24		A16S
ATOM	31097	O5*	G	A1475	159.514	55.752	-34.842	1.00146.17		A16S
ATOM	31098	C5*	G	A1475	159.007	56.536	-35.942	1.00146.17		A16S
ATOM	31099	C4*	G	A1475	158.091	57.636	-35.443	1.00146.17		A16S
ATOM	31100	O4*	G	A1475	156.884	57.062	-34.875	1.00146.17		A16S
ATOM	31101	C1*	G	A1475	156.405	57.899	-33.830	1.00146.17		A16S

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ATOM	31102	N9	G	A1475	156.319	57.126	-32.590	1.00149.24	A16S
ATOM	31103	C4	G	A1475	155.518	57.422	-31.511	1.00149.24	A16S
ATOM	31104	N3	G	A1475	154.667	58.466	-31.423	1.00149.24	A16S
ATOM	31105	C2	G	A1475	154.044	58.499	-30.260	1.00149.24	A16S
ATOM	31106	N2	G	A1475	153.165	59.479	-30.010	1.00149.24	A16S
ATOM	31107	N1	G	A1475	154.238	57.574	-29.258	1.00149.24	A16S
ATOM	31108	C6	G	A1475	155.111	56.489	-29.324	1.00149.24	A16S
ATOM	31109	O6	G	A1475	155.215	55.714	-28.358	1.00149.24	A16S
ATOM	31110	C5	G	A1475	155.789	56.446	-30.573	1.00149.24	A16S
ATOM	31111	N7	G	A1475	156.734	55.549	-31.053	1.00149.24	A16S
ATOM	31112	C8	G	A1475	157.017	55.988	-32.251	1.00149.24	A16S
ATOM	31113	C2*	G	A1475	157.357	59.089	-33.705	1.00146.17	A16S
ATOM	31114	O2*	G	A1475	156.824	60.209	-34.386	1.00146.17	A16S
ATOM	31115	C3*	G	A1475	158.629	58.541	-34.345	1.00146.17	A16S
ATOM	31116	O3*	G	A1475	159.457	59.582	-34.840	1.00146.17	A16S
ATOM	31117	P	G	A1476	160.444	60.350	-33.831	1.00122.60	A16S
ATOM	31118	O1P	G	A1476	161.268	61.272	-34.653	1.00127.04	A16S
ATOM	31119	O2P	G	A1476	161.113	59.338	-32.968	1.00127.04	A16S
ATOM	31120	O5*	G	A1476	159.461	61.221	-32.923	1.00122.60	A16S
ATOM	31121	C5*	G	A1476	158.745	62.343	-33.482	1.00122.60	A16S
ATOM	31122	C4*	G	A1476	157.845	62.981	-32.446	1.00122.60	A16S
ATOM	31123	O4*	G	A1476	156.779	62.066	-32.082	1.00122.60	A16S
ATOM	31124	C1*	G	A1476	156.419	62.272	-30.724	1.00122.60	A16S
ATOM	31125	N9	G	A1476	156.673	61.043	-29.977	1.00127.04	A16S
ATOM	31126	C4	G	A1476	156.348	60.810	-28.658	1.00127.04	A16S
ATOM	31127	N3	G	A1476	155.717	61.672	-27.831	1.00127.04	A16S
ATOM	31128	C2	G	A1476	155.561	61.170	-26.618	1.00127.04	A16S
ATOM	31129	N2	G	A1476	154.957	61.897	-25.669	1.00127.04	A16S
ATOM	31130	N1	G	A1476	155.988	59.917	-26.247	1.00127.04	A16S
ATOM	31131	C6	G	A1476	156.641	59.012	-27.080	1.00127.04	A16S
ATOM	31132	O6	G	A1476	156.988	57.906	-26.642	1.00127.04	A16S
ATOM	31133	C5	G	A1476	156.815	59.541	-28.386	1.00127.04	A16S
ATOM	31134	N7	G	A1476	157.410	58.984	-29.510	1.00127.04	A16S
ATOM	31135	C8	G	A1476	157.300	59.907	-30.428	1.00127.04	A16S
ATOM	31136	C2*	G	A1476	157.279	63.414	-30.182	1.00122.60	A16S
ATOM	31137	O2*	G	A1476	156.562	64.634	-30.239	1.00122.60	A16S
ATOM	31138	C3*	G	A1476	158.480	63.365	-31.118	1.00122.60	A16S
ATOM	31139	O3*	G	A1476	159.166	64.608	-31.157	1.00122.60	A16S
ATOM	31140	P	C	A1477	160.386	64.870	-30.139	1.00119.95	A16S
ATOM	31141	O1P	C	A1477	161.023	66.148	-30.536	1.00128.95	A16S
ATOM	31142	O2P	C	A1477	161.208	63.634	-30.063	1.00128.95	A16S
ATOM	31143	O5*	C	A1477	159.685	65.076	-28.719	1.00119.95	A16S
ATOM	31144	C5*	C	A1477	158.725	66.132	-28.504	1.00119.95	A16S
ATOM	31145	C4*	C	A1477	158.056	65.972	-27.153	1.00119.95	A16S
ATOM	31146	O4*	C	A1477	157.363	64.695	-27.106	1.00119.95	A16S
ATOM	31147	C1*	C	A1477	157.444	64.151	-25.796	1.00119.95	A16S
ATOM	31148	N1	C	A1477	158.198	62.880	-25.852	1.00128.95	A16S
ATOM	31149	C6	C	A1477	158.837	62.484	-26.996	1.00128.95	A16S
ATOM	31150	C2	C	A1477	158.263	62.084	-24.695	1.00128.95	A16S
ATOM	31151	O2	C	A1477	157.668	62.458	-23.670	1.00128.95	A16S
ATOM	31152	N3	C	A1477	158.974	60.933	-24.727	1.00128.95	A16S
ATOM	31153	C4	C	A1477	159.600	60.564	-25.847	1.00128.95	A16S
ATOM	31154	N4	C	A1477	160.294	59.425	-25.827	1.00128.95	A16S
ATOM	31155	C5	C	A1477	159.543	61.347	-27.036	1.00128.95	A16S
ATOM	31156	C2*	C	A1477	158.161	65.172	-24.914	1.00119.95	A16S
ATOM	31157	O2*	C	A1477	157.209	65.954	-24.219	1.00119.95	A16S
ATOM	31158	C3*	C	A1477	158.978	65.942	-25.945	1.00119.95	A16S
ATOM	31159	O3*	C	A1477	159.339	67.235	-25.490	1.00119.95	A16S
ATOM	31160	P	C	A1478	160.732	67.439	-24.711	1.00108.66	A16S
ATOM	31161	O1P	C	A1478	161.024	68.896	-24.720	1.00117.44	A16S
ATOM	31162	O2P	C	A1478	161.726	66.482	-25.271	1.00117.44	A16S
ATOM	31163	O5*	C	A1478	160.417	67.012	-23.207	1.00108.66	A16S
ATOM	31164	C5*	C	A1478	159.521	67.794	-22.396	1.00108.66	A16S
ATOM	31165	C4*	C	A1478	159.238	67.095	-21.088	1.00108.66	A16S
ATOM	31166	O4*	C	A1478	158.594	65.819	-21.343	1.00108.66	A16S
ATOM	31167	C1*	C	A1478	158.963	64.891	-20.334	1.00108.66	A16S
ATOM	31168	N1	C	A1478	159.666	63.753	-20.946	1.00117.44	A16S
ATOM	31169	C6	C	A1478	160.274	63.862	-22.168	1.00117.44	A16S
ATOM	31170	C2	C	A1478	159.730	62.549	-20.231	1.00117.44	A16S
ATOM	31171	O2	C	A1478	159.142	62.468	-19.136	1.00117.44	A16S
ATOM	31172	N3	C	A1478	160.427	61.510	-20.748	1.00117.44	A16S
ATOM	31173	C4	C	A1478	161.034	61.635	-21.932	1.00117.44	A16S
ATOM	31174	N4	C	A1478	161.722	60.591	-22.396	1.00117.44	A16S
ATOM	31175	C5	C	A1478	160.964	62.839	-22.692	1.00117.44	A16S
ATOM	31176	C2*	C	A1478	159.897	65.606	-19.362	1.00108.66	A16S
ATOM	31177	O2*	C	A1478	159.163	66.056	-18.242	1.00108.66	A16S
ATOM	31178	C3*	C	A1478	160.440	66.731	-20.232	1.00108.66	A16S

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ATOM	31179	O3*	C	A1478	160.924	67.810	-19.451	1.00108.66	A16S
ATOM	31180	P	C	A1479	162.444	67.780	-18.925	1.00140.90	A16S
ATOM	31181	O1P	C	A1479	162.750	69.091	-18.303	1.00114.13	A16S
ATOM	31182	O2P	C	A1479	163.297	67.269	-20.031	1.00114.13	A16S
ATOM	31183	O5*	C	A1479	162.422	66.705	-17.752	1.00140.90	A16S
ATOM	31184	C5*	C	A1479	161.603	66.914	-16.588	1.00140.90	A16S
ATOM	31185	C4*	C	A1479	161.660	65.708	-15.685	1.00140.90	A16S
ATOM	31186	O4*	C	A1479	161.125	64.551	-16.379	1.00140.90	A16S
ATOM	31187	C1*	C	A1479	161.843	63.389	-15.998	1.00140.90	A16S
ATOM	31188	N1	C	A1479	162.486	62.809	-17.197	1.00114.13	A16S
ATOM	31189	C6	C	A1479	162.479	63.473	-18.395	1.00114.13	A16S
ATOM	31190	C2	C	A1479	163.112	61.557	-17.090	1.00114.13	A16S
ATOM	31191	O2	C	A1479	163.108	60.972	-15.992	1.00114.13	A16S
ATOM	31192	N3	C	A1479	163.706	61.018	-18.183	1.00114.13	A16S
ATOM	31193	C4	C	A1479	163.691	61.676	-19.345	1.00114.13	A16S
ATOM	31194	N4	C	A1479	164.292	61.108	-20.395	1.00114.13	A16S
ATOM	31195	C5	C	A1479	163.062	62.948	-19.482	1.00114.13	A16S
ATOM	31196	C2*	C	A1479	162.860	63.804	-14.935	1.00140.90	A16S
ATOM	31197	O2*	C	A1479	162.302	63.596	-13.653	1.00140.90	A16S
ATOM	31198	C3*	C	A1479	163.051	65.278	-15.260	1.00140.90	A16S
ATOM	31199	O3*	C	A1479	163.522	66.024	-14.153	1.00140.90	A16S
ATOM	31200	P	G	A1480	165.082	66.389	-14.061	1.00121.16	A16S
ATOM	31201	O1P	G	A1480	165.223	67.388	-12.972	1.00122.65	A16S
ATOM	31202	O2P	G	A1480	165.556	66.725	-15.434	1.00122.65	A16S
ATOM	31203	O5*	G	A1480	165.772	65.027	-13.588	1.00121.16	A16S
ATOM	31204	C5*	G	A1480	165.545	64.498	-12.255	1.00121.16	A16S
ATOM	31205	C4*	G	A1480	166.248	63.164	-12.076	1.00121.16	A16S
ATOM	31206	O4*	G	A1480	165.668	62.177	-12.968	1.00121.16	A16S
ATOM	31207	C1*	G	A1480	166.673	61.288	-13.423	1.00121.16	A16S
ATOM	31208	N9	G	A1480	166.764	61.409	-14.874	1.00122.65	A16S
ATOM	31209	C4	G	A1480	167.311	60.493	-15.739	1.00122.65	A16S
ATOM	31210	N3	G	A1480	167.854	59.305	-15.397	1.00122.65	A16S
ATOM	31211	C2	G	A1480	168.309	58.646	-16.452	1.00122.65	A16S
ATOM	31212	N2	G	A1480	168.879	57.439	-16.291	1.00122.65	A16S
ATOM	31213	N1	G	A1480	168.238	59.120	-17.743	1.00122.65	A16S
ATOM	31214	C6	G	A1480	167.686	60.343	-18.119	1.00122.65	A16S
ATOM	31215	O6	G	A1480	167.685	60.684	-19.316	1.00122.65	A16S
ATOM	31216	C5	G	A1480	167.189	61.056	-16.993	1.00122.65	A16S
ATOM	31217	N7	G	A1480	166.572	62.296	-16.918	1.00122.65	A16S
ATOM	31218	C8	G	A1480	166.336	62.462	-15.646	1.00122.65	A16S
ATOM	31219	C2*	G	A1480	167.982	61.671	-12.733	1.00121.16	A16S
ATOM	31220	O2*	G	A1480	168.168	60.858	-11.592	1.00121.16	A16S
ATOM	31221	C3*	G	A1480	167.736	63.136	-12.390	1.00121.16	A16S
ATOM	31222	O3*	G	A1480	168.525	63.574	-11.289	1.00121.16	A16S
ATOM	31223	P	U	A1481	169.982	64.206	-11.556	1.00111.23	A16S
ATOM	31224	O1P	U	A1481	170.518	64.629	-10.237	1.00126.22	A16S
ATOM	31225	O2P	U	A1481	169.900	65.195	-12.668	1.00126.22	A16S
ATOM	31226	O5*	U	A1481	170.839	62.968	-12.074	1.00111.23	A16S
ATOM	31227	C5*	U	A1481	171.141	61.865	-11.203	1.00111.23	A16S
ATOM	31228	C4*	U	A1481	171.898	60.809	-11.959	1.00111.23	A16S
ATOM	31229	O4*	U	A1481	171.031	60.233	-12.966	1.00111.23	A16S
ATOM	31230	C1*	U	A1481	171.783	59.941	-14.131	1.00111.23	A16S
ATOM	31231	N1	U	A1481	171.222	60.694	-15.264	1.00126.22	A16S
ATOM	31232	C6	U	A1481	170.491	61.848	-15.076	1.00126.22	A16S
ATOM	31233	C2	U	A1481	171.464	60.205	-16.542	1.00126.22	A16S
ATOM	31234	O2	U	A1481	172.104	59.186	-16.758	1.00126.22	A16S
ATOM	31235	N3	U	A1481	170.932	60.956	-17.559	1.00126.22	A16S
ATOM	31236	C4	U	A1481	170.199	62.117	-17.441	1.00126.22	A16S
ATOM	31237	O4	U	A1481	169.755	62.657	-18.459	1.00126.22	A16S
ATOM	31238	C5	U	A1481	169.987	62.557	-16.091	1.00126.22	A16S
ATOM	31239	C2*	U	A1481	173.240	60.312	-13.858	1.00111.23	A16S
ATOM	31240	O2*	U	A1481	173.964	59.164	-13.474	1.00111.23	A16S
ATOM	31241	C3*	U	A1481	173.092	61.331	-12.738	1.00111.23	A16S
ATOM	31242	O3*	U	A1481	174.257	61.435	-11.935	1.00111.23	A16S
ATOM	31243	P	G	A1482	175.389	62.513	-12.317	1.00116.22	A16S
ATOM	31244	O1P	G	A1482	176.485	62.360	-11.324	1.00129.33	A16S
ATOM	31245	O2P	G	A1482	174.741	63.843	-12.489	1.00129.33	A16S
ATOM	31246	O5*	G	A1482	175.916	62.021	-13.741	1.00116.22	A16S
ATOM	31247	C5*	G	A1482	176.501	60.710	-13.901	1.00116.22	A16S
ATOM	31248	C4*	G	A1482	176.735	60.404	-15.364	1.00116.22	A16S
ATOM	31249	O4*	G	A1482	175.469	60.353	-16.065	1.00116.22	A16S
ATOM	31250	C1*	G	A1482	175.632	60.857	-17.382	1.00116.22	A16S
ATOM	31251	N9	G	A1482	174.724	61.991	-17.551	1.00129.33	A16S
ATOM	31252	C4	G	A1482	174.145	62.426	-18.729	1.00129.33	A16S
ATOM	31253	N3	G	A1482	174.321	61.884	-19.958	1.00129.33	A16S
ATOM	31254	C2	G	A1482	173.622	62.523	-20.885	1.00129.33	A16S
ATOM	31255	N2	G	A1482	173.677	62.125	-22.164	1.00129.33	A16S

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ATOM	31256	N1	G	A1482	172.816	63.601	-20.628	1.00129.33	A16S
ATOM	31257	C6	G	A1482	172.620	64.176	-19.376	1.00129.33	A16S
ATOM	31258	O6	G	A1482	171.869	65.152	-19.255	1.00129.33	A16S
ATOM	31259	C5	G	A1482	173.364	63.506	-18.372	1.00129.33	A16S
ATOM	31260	N7	G	A1482	173.455	63.752	-17.008	1.00129.33	A16S
ATOM	31261	C8	G	A1482	174.270	62.835	-16.565	1.00129.33	A16S
ATOM	31262	C2*	G	A1482	177.109	61.219	-17.573	1.00116.22	A16S
ATOM	31263	O2*	G	A1482	177.789	60.164	-18.224	1.00116.22	A16S
ATOM	31264	C3*	G	A1482	177.573	61.413	-16.134	1.00116.22	A16S
ATOM	31265	O3*	G	A1482	178.961	61.134	-15.997	1.00116.22	A16S
ATOM	31266	P	A	A1483	180.046	62.256	-16.380	1.00109.61	A16S
ATOM	31267	O1P	A	A1483	180.824	62.559	-15.147	1.00136.23	A16S
ATOM	31268	O2P	A	A1483	179.375	63.363	-17.117	1.00136.23	A16S
ATOM	31269	O5*	A	A1483	181.014	61.510	-17.398	1.00109.61	A16S
ATOM	31270	C5*	A	A1483	181.805	60.384	-16.986	1.00109.61	A16S
ATOM	31271	C4*	A	A1483	182.379	59.700	-18.197	1.00109.61	A16S
ATOM	31272	O4*	A	A1483	181.291	59.154	-18.983	1.00109.61	A16S
ATOM	31273	C1*	A	A1483	181.605	59.248	-20.365	1.00109.61	A16S
ATOM	31274	N9	A	A1483	180.577	60.048	-21.031	1.00136.23	A16S
ATOM	31275	C4	A	A1483	180.412	60.155	-22.391	1.00136.23	A16S
ATOM	31276	N3	A	A1483	181.134	59.548	-23.350	1.00136.23	A16S
ATOM	31277	C2	A	A1483	180.691	59.890	-24.555	1.00136.23	A16S
ATOM	31278	N1	A	A1483	179.687	60.711	-24.888	1.00136.23	A16S
ATOM	31279	C6	A	A1483	178.986	61.309	-23.902	1.00136.23	A16S
ATOM	31280	N6	A	A1483	177.994	62.137	-24.236	1.00136.23	A16S
ATOM	31281	C5	A	A1483	179.352	61.023	-22.575	1.00136.23	A16S
ATOM	31282	N7	A	A1483	178.850	61.451	-21.353	1.00136.23	A16S
ATOM	31283	C8	A	A1483	179.607	60.844	-20.472	1.00136.23	A16S
ATOM	31284	C2*	A	A1483	182.985	59.888	-20.496	1.00109.61	A16S
ATOM	31285	O2*	A	A1483	183.969	58.897	-20.707	1.00109.61	A16S
ATOM	31286	C3*	A	A1483	183.111	60.616	-19.166	1.00109.61	A16S
ATOM	31287	O3*	A	A1483	184.461	60.844	-18.804	1.00109.61	A16S
ATOM	31288	P	C	A1484	185.054	62.336	-18.879	1.00115.26	A16S
ATOM	31289	O1P	C	A1484	186.535	62.246	-18.769	1.00128.60	A16S
ATOM	31290	O2P	C	A1484	184.291	63.167	-17.902	1.00128.60	A16S
ATOM	31291	O5*	C	A1484	184.705	62.827	-20.357	1.00115.26	A16S
ATOM	31292	C5*	C	A1484	185.242	62.153	-21.511	1.00115.26	A16S
ATOM	31293	C4*	C	A1484	184.658	62.733	-22.775	1.00115.26	A16S
ATOM	31294	O4*	C	A1484	183.229	62.481	-22.810	1.00115.26	A16S
ATOM	31295	C1*	C	A1484	182.558	63.590	-23.393	1.00115.26	A16S
ATOM	31296	N1	C	A1484	181.688	64.204	-22.370	1.00128.60	A16S
ATOM	31297	C6	C	A1484	181.985	64.092	-21.039	1.00128.60	A16S
ATOM	31298	C2	C	A1484	180.560	64.925	-22.781	1.00128.60	A16S
ATOM	31299	O2	C	A1484	180.297	64.997	-23.990	1.00128.60	A16S
ATOM	31300	N3	C	A1484	179.787	65.524	-21.848	1.00128.60	A16S
ATOM	31301	C4	C	A1484	180.097	65.418	-20.553	1.00128.60	A16S
ATOM	31302	N4	C	A1484	179.314	66.032	-19.668	1.00128.60	A16S
ATOM	31303	C5	C	A1484	181.225	64.677	-20.108	1.00128.60	A16S
ATOM	31304	C2*	C	A1484	183.627	64.583	-23.849	1.00115.26	A16S
ATOM	31305	O2*	C	A1484	183.957	64.375	-25.209	1.00115.26	A16S
ATOM	31306	C3*	C	A1484	184.770	64.241	-22.909	1.00115.26	A16S
ATOM	31307	O3*	C	A1484	186.016	64.669	-23.416	1.00115.26	A16S
ATOM	31308	P	U	A1485	186.613	66.079	-22.932	1.00108.30	A16S
ATOM	31309	O1P	U	A1485	187.949	66.237	-23.573	1.00102.16	A16S
ATOM	31310	O2P	U	A1485	186.497	66.135	-21.441	1.00102.16	A16S
ATOM	31311	O5*	U	A1485	185.611	67.161	-23.550	1.00108.30	A16S
ATOM	31312	C5*	U	A1485	185.451	67.313	-24.982	1.00108.30	A16S
ATOM	31313	C4*	U	A1485	184.276	68.218	-25.294	1.00108.30	A16S
ATOM	31314	O4*	U	A1485	183.074	67.643	-24.716	1.00108.30	A16S
ATOM	31315	C1*	U	A1485	182.199	68.677	-24.292	1.00108.30	A16S
ATOM	31316	N1	U	A1485	182.041	68.606	-22.830	1.00102.16	A16S
ATOM	31317	C6	U	A1485	182.967	67.983	-22.027	1.00102.16	A16S
ATOM	31318	C2	U	A1485	180.937	69.223	-22.283	1.00102.16	A16S
ATOM	31319	O2	U	A1485	180.073	69.745	-22.959	1.00102.16	A16S
ATOM	31320	N3	U	A1485	180.880	69.206	-20.914	1.00102.16	A16S
ATOM	31321	C4	U	A1485	181.787	68.635	-20.054	1.00102.16	A16S
ATOM	31322	O4	U	A1485	181.661	68.809	-18.841	1.00102.16	A16S
ATOM	31323	C5	U	A1485	182.880	67.976	-20.695	1.00102.16	A16S
ATOM	31324	C2*	U	A1485	182.837	70.007	-24.682	1.00108.30	A16S
ATOM	31325	O2*	U	A1485	182.335	70.442	-25.931	1.00108.30	A16S
ATOM	31326	C3*	U	A1485	184.310	69.631	-24.724	1.00108.30	A16S
ATOM	31327	O3*	U	A1485	185.054	70.553	-25.503	1.00108.30	A16S
ATOM	31328	P	G	A1486	185.539	71.939	-24.838	1.00 83.51	A16S
ATOM	31329	O1P	G	A1486	186.578	72.506	-25.740	1.00 85.02	A16S
ATOM	31330	O2P	G	A1486	185.857	71.705	-23.398	1.00 85.02	A16S
ATOM	31331	O5*	G	A1486	184.252	72.880	-24.916	1.00 83.51	A16S
ATOM	31332	C5*	G	A1486	183.792	73.394	-26.187	1.00 83.51	A16S

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ATOM	31333	C4*	G	A1486	182.779	74.503	-25.986	1.00	83.51	A16S
ATOM	31334	O4*	G	A1486	181.555	73.960	-25.426	1.00	83.51	A16S
ATOM	31335	C1*	G	A1486	180.958	74.916	-24.567	1.00	83.51	A16S
ATOM	31336	N9	G	A1486	180.922	74.361	-23.218	1.00	85.02	A16S
ATOM	31337	C4	G	A1486	180.071	74.730	-22.210	1.00	85.02	A16S
ATOM	31338	N3	G	A1486	179.098	75.658	-22.299	1.00	85.02	A16S
ATOM	31339	C2	G	A1486	178.444	75.797	-21.162	1.00	85.02	A16S
ATOM	31340	N2	G	A1486	177.428	76.668	-21.086	1.00	85.02	A16S
ATOM	31341	N1	G	A1486	178.732	75.088	-20.016	1.00	85.02	A16S
ATOM	31342	C6	G	A1486	179.734	74.128	-19.899	1.00	85.02	A16S
ATOM	31343	O6	G	A1486	179.914	73.543	-18.816	1.00	85.02	A16S
ATOM	31344	C5	G	A1486	180.435	73.963	-21.122	1.00	85.02	A16S
ATOM	31345	N7	G	A1486	181.486	73.118	-21.445	1.00	85.02	A16S
ATOM	31346	C8	G	A1486	181.740	73.386	-22.697	1.00	85.02	A16S
ATOM	31347	C2*	G	A1486	181.809	76.184	-24.626	1.00	83.51	A16S
ATOM	31348	O2*	G	A1486	181.275	77.073	-25.589	1.00	83.51	A16S
ATOM	31349	C3*	G	A1486	183.164	75.622	-25.033	1.00	83.51	A16S
ATOM	31350	O3*	G	A1486	183.993	76.602	-25.641	1.00	83.51	A16S
ATOM	31351	P	G	A1487	185.196	77.250	-24.794	1.00	82.09	A16S
ATOM	31352	O1P	G	A1487	186.123	77.894	-25.764	1.00	90.54	A16S
ATOM	31353	O2P	G	A1487	185.714	76.224	-23.842	1.00	90.54	A16S
ATOM	31354	O5*	G	A1487	184.497	78.392	-23.932	1.00	82.09	A16S
ATOM	31355	C5*	G	A1487	183.960	79.553	-24.578	1.00	82.09	A16S
ATOM	31356	C4*	G	A1487	182.676	79.993	-23.915	1.00	82.09	A16S
ATOM	31357	O4*	G	A1487	181.906	78.827	-23.523	1.00	82.09	A16S
ATOM	31358	C1*	G	A1487	181.085	79.153	-22.419	1.00	82.09	A16S
ATOM	31359	N9	G	A1487	181.396	78.277	-21.293	1.00	90.54	A16S
ATOM	31360	C4	G	A1487	180.630	78.141	-20.157	1.00	90.54	A16S
ATOM	31361	N3	G	A1487	179.465	78.776	-19.909	1.00	90.54	A16S
ATOM	31362	C2	G	A1487	178.960	78.446	-18.737	1.00	90.54	A16S
ATOM	31363	N2	G	A1487	177.798	78.986	-18.344	1.00	90.54	A16S
ATOM	31364	N1	G	A1487	179.553	77.563	-17.868	1.00	90.54	A16S
ATOM	31365	C6	G	A1487	180.754	76.898	-18.094	1.00	90.54	A16S
ATOM	31366	O6	G	A1487	181.201	76.122	-17.237	1.00	90.54	A16S
ATOM	31367	C5	G	A1487	181.310	77.244	-19.361	1.00	90.54	A16S
ATOM	31368	N7	G	A1487	182.479	76.822	-19.983	1.00	90.54	A16S
ATOM	31369	C8	G	A1487	182.486	77.456	-21.127	1.00	90.54	A16S
ATOM	31370	C2*	G	A1487	181.368	80.606	-22.057	1.00	82.09	A16S
ATOM	31371	O2*	G	A1487	180.418	81.433	-22.704	1.00	82.09	A16S
ATOM	31372	C3*	G	A1487	182.761	80.801	-22.632	1.00	82.09	A16S
ATOM	31373	O3*	G	A1487	182.990	82.181	-22.865	1.00	82.09	A16S
ATOM	31374	P	G	A1488	183.414	83.130	-21.635	1.00	62.47	A16S
ATOM	31375	O1P	G	A1488	183.578	84.511	-22.179	1.00	98.37	A16S
ATOM	31376	O2P	G	A1488	184.546	82.482	-20.915	1.00	98.37	A16S
ATOM	31377	O5*	G	A1488	182.151	83.107	-20.658	1.00	62.47	A16S
ATOM	31378	C5*	G	A1488	180.879	83.645	-21.079	1.00	62.47	A16S
ATOM	31379	C4*	G	A1488	179.900	83.668	-19.927	1.00	62.47	A16S
ATOM	31380	O4*	G	A1488	179.562	82.313	-19.523	1.00	62.47	A16S
ATOM	31381	C1*	G	A1488	179.338	82.276	-18.121	1.00	62.47	A16S
ATOM	31382	N9	G	A1488	180.310	81.369	-17.518	1.00	98.37	A16S
ATOM	31383	C4	G	A1488	180.280	80.873	-16.234	1.00	98.37	A16S
ATOM	31384	N3	G	A1488	179.324	81.109	-15.312	1.00	98.37	A16S
ATOM	31385	C2	G	A1488	179.580	80.496	-14.165	1.00	98.37	A16S
ATOM	31386	N2	G	A1488	178.720	80.601	-13.143	1.00	98.37	A16S
ATOM	31387	N1	G	A1488	180.693	79.731	-13.937	1.00	98.37	A16S
ATOM	31388	C6	G	A1488	181.690	79.477	-14.868	1.00	98.37	A16S
ATOM	31389	O6	G	A1488	182.656	78.775	-14.554	1.00	98.37	A16S
ATOM	31390	C5	G	A1488	181.421	80.114	-16.110	1.00	98.37	A16S
ATOM	31391	N7	G	A1488	182.143	80.113	-17.295	1.00	98.37	A16S
ATOM	31392	C8	G	A1488	181.445	80.865	-18.101	1.00	98.37	A16S
ATOM	31393	C2*	G	A1488	179.496	83.702	-17.585	1.00	62.47	A16S
ATOM	31394	O2*	G	A1488	178.220	84.304	-17.477	1.00	62.47	A16S
ATOM	31395	C3*	G	A1488	180.386	84.336	-18.651	1.00	62.47	A16S
ATOM	31396	O3*	G	A1488	180.292	85.758	-18.712	1.00	62.47	A16S
ATOM	31397	P	G	A1489	181.194	86.661	-17.728	1.00	61.08	A16S
ATOM	31398	O1P	G	A1489	181.034	88.079	-18.141	1.00	86.13	A16S
ATOM	31399	O2P	G	A1489	182.560	86.077	-17.636	1.00	86.13	A16S
ATOM	31400	O5*	G	A1489	180.468	86.480	-16.324	1.00	61.08	A16S
ATOM	31401	C5*	G	A1489	179.101	86.901	-16.154	1.00	61.08	A16S
ATOM	31402	C4*	G	A1489	178.657	86.685	-14.728	1.00	61.08	A16S
ATOM	31403	O4*	G	A1489	178.548	85.265	-14.461	1.00	61.08	A16S
ATOM	31404	C1*	G	A1489	179.008	84.988	-13.149	1.00	61.08	A16S
ATOM	31405	N9	G	A1489	180.195	84.142	-13.267	1.00	86.13	A16S
ATOM	31406	C4	G	A1489	180.745	83.360	-12.281	1.00	86.13	A16S
ATOM	31407	N3	G	A1489	180.288	83.243	-11.020	1.00	86.13	A16S
ATOM	31408	C2	G	A1489	181.021	82.407	-10.310	1.00	86.13	A16S
ATOM	31409	N2	G	A1489	180.707	82.177	-9.027	1.00	86.13	A16S

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ATOM	31410	N1	G	A1489	182.114	81.736	-10.801	1.00	86.13	A16S
ATOM	31411	C6	G	A1489	182.603	81.844	-12.095	1.00	86.13	A16S
ATOM	31412	O6	G	A1489	183.596	81.195	-12.435	1.00	86.13	A16S
ATOM	31413	C5	G	A1489	181.829	82.741	-12.867	1.00	86.13	A16S
ATOM	31414	N7	G	A1489	181.964	83.132	-14.190	1.00	86.13	A16S
ATOM	31415	C8	G	A1489	180.978	83.964	-14.383	1.00	86.13	A16S
ATOM	31416	C2*	G	A1489	179.307	86.329	-12.472	1.00	61.08	A16S
ATOM	31417	O2*	G	A1489	178.172	86.807	-11.771	1.00	61.08	A16S
ATOM	31418	C3*	G	A1489	179.620	87.203	-13.673	1.00	61.08	A16S
ATOM	31419	O3*	G	A1489	179.433	88.575	-13.397	1.00	61.08	A16S
ATOM	31420	P	C	A1490	180.676	89.439	-12.884	1.00	88.27	A16S
ATOM	31421	O1P	C	A1490	180.204	90.838	-12.793	1.00	81.92	A16S
ATOM	31422	O2P	C	A1490	181.871	89.123	-13.708	1.00	81.92	A16S
ATOM	31423	O5*	C	A1490	180.905	88.866	-11.418	1.00	88.27	A16S
ATOM	31424	C5*	C	A1490	179.827	88.862	-10.465	1.00	88.27	A16S
ATOM	31425	C4*	C	A1490	180.233	88.144	-9.199	1.00	88.27	A16S
ATOM	31426	O4*	C	A1490	180.300	86.709	-9.430	1.00	88.27	A16S
ATOM	31427	C1*	C	A1490	181.350	86.150	-8.652	1.00	88.27	A16S
ATOM	31428	N1	C	A1490	182.390	85.646	-9.572	1.00	81.92	A16S
ATOM	31429	C6	C	A1490	182.401	86.021	-10.887	1.00	81.92	A16S
ATOM	31430	C2	C	A1490	183.398	84.798	-9.070	1.00	81.92	A16S
ATOM	31431	O2	C	A1490	183.349	84.422	-7.881	1.00	81.92	A16S
ATOM	31432	N3	C	A1490	184.396	84.410	-9.895	1.00	81.92	A16S
ATOM	31433	C4	C	A1490	184.408	84.814	-11.166	1.00	81.92	A16S
ATOM	31434	N4	C	A1490	185.427	84.432	-11.930	1.00	81.92	A16S
ATOM	31435	C5	C	A1490	183.380	85.634	-11.708	1.00	81.92	A16S
ATOM	31436	C2*	C	A1490	181.923	87.278	-7.788	1.00	88.27	A16S
ATOM	31437	O2*	C	A1490	181.310	87.313	-6.507	1.00	88.27	A16S
ATOM	31438	C3*	C	A1490	181.599	88.498	-8.638	1.00	88.27	A16S
ATOM	31439	O3*	C	A1490	181.623	89.703	-7.901	1.00	88.27	A16S
ATOM	31440	P	G	A1491	182.993	90.536	-7.818	1.00	156.63	A16S
ATOM	31441	O1P	G	A1491	182.707	91.713	-6.962	1.00	92.09	A16S
ATOM	31442	O2P	G	A1491	183.535	90.732	-9.191	1.00	92.09	A16S
ATOM	31443	O5*	G	A1491	183.984	89.561	-7.039	1.00	156.63	A16S
ATOM	31444	C5*	G	A1491	183.614	89.006	-5.762	1.00	156.63	A16S
ATOM	31445	C4*	G	A1491	184.671	88.043	-5.269	1.00	156.63	A16S
ATOM	31446	O4*	G	A1491	184.737	86.876	-6.129	1.00	156.63	A16S
ATOM	31447	C1*	G	A1491	186.071	86.388	-6.167	1.00	156.63	A16S
ATOM	31448	N9	G	A1491	186.524	86.337	-7.557	1.00	92.09	A16S
ATOM	31449	C4	G	A1491	187.573	85.586	-8.048	1.00	92.09	A16S
ATOM	31450	N3	G	A1491	188.359	84.749	-7.333	1.00	92.09	A16S
ATOM	31451	C2	G	A1491	189.282	84.172	-8.086	1.00	92.09	A16S
ATOM	31452	N2	G	A1491	190.145	83.309	-7.543	1.00	92.09	A16S
ATOM	31453	N1	G	A1491	189.426	84.398	-9.427	1.00	92.09	A16S
ATOM	31454	C6	G	A1491	188.634	85.253	-10.185	1.00	92.09	A16S
ATOM	31455	O6	G	A1491	188.855	85.383	-11.393	1.00	92.09	A16S
ATOM	31456	C5	G	A1491	187.634	85.880	-9.393	1.00	92.09	A16S
ATOM	31457	N7	G	A1491	186.644	86.786	-9.746	1.00	92.09	A16S
ATOM	31458	C8	G	A1491	186.011	87.028	-8.630	1.00	92.09	A16S
ATOM	31459	C2*	G	A1491	186.932	87.299	-5.285	1.00	156.63	A16S
ATOM	31460	O2*	G	A1491	187.119	86.709	-4.012	1.00	156.63	A16S
ATOM	31461	C3*	G	A1491	186.095	88.574	-5.232	1.00	156.63	A16S
ATOM	31462	O3*	G	A1491	186.339	89.331	-4.052	1.00	156.63	A16S
ATOM	31463	P	A	A1492	187.509	90.431	-4.042	1.00	145.85	A16S
ATOM	31464	O1P	A	A1492	187.297	91.271	-2.834	1.00	197.98	A16S
ATOM	31465	O2P	A	A1492	187.572	91.076	-5.384	1.00	197.98	A16S
ATOM	31466	O5*	A	A1492	188.829	89.565	-3.814	1.00	145.85	A16S
ATOM	31467	C5*	A	A1492	190.035	89.805	-4.580	1.00	145.85	A16S
ATOM	31468	C4*	A	A1492	191.260	89.444	-3.760	1.00	145.85	A16S
ATOM	31469	O4*	A	A1492	191.064	88.143	-3.159	1.00	145.85	A16S
ATOM	31470	C1*	A	A1492	192.282	87.426	-3.158	1.00	145.85	A16S
ATOM	31471	N9	A	A1492	192.049	86.162	-3.866	1.00	197.98	A16S
ATOM	31472	C4	A	A1492	192.898	85.082	-3.963	1.00	197.98	A16S
ATOM	31473	N3	A	A1492	194.146	84.973	-3.473	1.00	197.98	A16S
ATOM	31474	C2	A	A1492	194.652	83.768	-3.739	1.00	197.98	A16S
ATOM	31475	N1	A	A1492	194.094	82.735	-4.385	1.00	197.98	A16S
ATOM	31476	C6	A	A1492	192.839	82.874	-4.862	1.00	197.98	A16S
ATOM	31477	N6	A	A1492	192.278	81.839	-5.493	1.00	197.98	A16S
ATOM	31478	C5	A	A1492	192.194	84.109	-4.656	1.00	197.98	A16S
ATOM	31479	N7	A	A1492	190.937	84.577	-5.017	1.00	197.98	A16S
ATOM	31480	C8	A	A1492	190.904	85.795	-4.537	1.00	197.98	A16S
ATOM	31481	C2*	A	A1492	193.378	88.345	-3.714	1.00	145.85	A16S
ATOM	31482	O2*	A	A1492	194.068	88.965	-2.643	1.00	145.85	A16S
ATOM	31483	C3*	A	A1492	192.567	89.344	-4.534	1.00	145.85	A16S
ATOM	31484	O3*	A	A1492	193.210	90.615	-4.597	1.00	145.85	A16S
ATOM	31485	P	A	A1493	193.663	91.218	-6.019	1.00	197.98	A16S
ATOM	31486	O1P	A	A1493	193.496	92.690	-5.942	1.00	197.98	A16S

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ATOM	31487	O2P	A	A1493	193.014	90.461	-7.124	1.00197.98	A16S
ATOM	31488	O5*	A	A1493	195.222	90.918	-6.084	1.00197.98	A16S
ATOM	31489	C5*	A	A1493	196.103	91.328	-5.024	1.00197.98	A16S
ATOM	31490	C4*	A	A1493	197.258	90.364	-4.921	1.00197.98	A16S
ATOM	31491	O4*	A	A1493	196.727	89.068	-4.520	1.00197.98	A16S
ATOM	31492	C1*	A	A1493	197.333	88.027	-5.279	1.00197.98	A16S
ATOM	31493	N9	A	A1493	196.293	87.364	-6.075	1.00197.98	A16S
ATOM	31494	C4	A	A1493	196.396	86.138	-6.691	1.00197.98	A16S
ATOM	31495	N3	A	A1493	197.452	85.305	-6.686	1.00197.98	A16S
ATOM	31496	C2	A	A1493	197.190	84.211	-7.398	1.00197.98	A16S
ATOM	31497	N1	A	A1493	196.077	83.880	-8.064	1.00197.98	A16S
ATOM	31498	C6	A	A1493	195.035	84.740	-8.049	1.00197.98	A16S
ATOM	31499	N6	A	A1493	193.927	84.414	-8.715	1.00197.98	A16S
ATOM	31500	C5	A	A1493	195.184	85.935	-7.330	1.00197.98	A16S
ATOM	31501	N7	A	A1493	194.329	87.008	-7.118	1.00197.98	A16S
ATOM	31502	C8	A	A1493	195.030	87.825	-6.371	1.00197.98	A16S
ATOM	31503	C2*	A	A1493	198.437	88.643	-6.143	1.00197.98	A16S
ATOM	31504	O2*	A	A1493	199.689	88.493	-5.500	1.00197.98	A16S
ATOM	31505	C3*	A	A1493	197.974	90.091	-6.237	1.00197.98	A16S
ATOM	31506	O3*	A	A1493	197.609	90.784	-7.437	1.00197.98	A16S
ATOM	31507	P	G	A1494	198.694	91.015	-8.609	1.00108.06	A16S
ATOM	31508	O1P	G	A1494	199.894	91.623	-7.969	1.00 77.73	A16S
ATOM	31509	O2P	G	A1494	198.018	91.731	-9.735	1.00 77.73	A16S
ATOM	31510	O5*	G	A1494	199.103	89.550	-9.093	1.00108.06	A16S
ATOM	31511	C5*	G	A1494	200.178	88.837	-8.449	1.00108.06	A16S
ATOM	31512	C4*	G	A1494	200.486	87.565	-9.190	1.00108.06	A16S
ATOM	31513	O4*	G	A1494	199.284	86.756	-9.292	1.00108.06	A16S
ATOM	31514	C1*	G	A1494	199.256	86.094	-10.547	1.00108.06	A16S
ATOM	31515	N9	G	A1494	198.104	86.586	-11.299	1.00 77.73	A16S
ATOM	31516	C4	G	A1494	197.659	86.117	-12.516	1.00 77.73	A16S
ATOM	31517	N3	G	A1494	198.185	85.086	-13.211	1.00 77.73	A16S
ATOM	31518	C2	G	A1494	197.556	84.887	-14.359	1.00 77.73	A16S
ATOM	31519	N2	G	A1494	197.943	83.895	-15.167	1.00 77.73	A16S
ATOM	31520	N1	G	A1494	196.502	85.646	-14.796	1.00 77.73	A16S
ATOM	31521	C6	G	A1494	195.951	86.720	-14.104	1.00 77.73	A16S
ATOM	31522	O6	G	A1494	195.019	87.359	-14.606	1.00 77.73	A16S
ATOM	31523	C5	G	A1494	196.605	86.932	-12.859	1.00 77.73	A16S
ATOM	31524	N7	G	A1494	196.370	87.875	-11.868	1.00 77.73	A16S
ATOM	31525	C8	G	A1494	197.274	87.626	-10.960	1.00 77.73	A16S
ATOM	31526	C2*	G	A1494	200.561	86.432	-11.270	1.00108.06	A16S
ATOM	31527	O2*	G	A1494	201.519	85.421	-11.034	1.00108.06	A16S
ATOM	31528	C3*	G	A1494	200.926	87.761	-10.625	1.00108.06	A16S
ATOM	31529	O3*	G	A1494	202.303	88.077	-10.714	1.00108.06	A16S
ATOM	31530	P	U	A1495	202.796	89.140	-11.814	1.00 76.54	A16S
ATOM	31531	O1P	U	A1495	204.245	89.396	-11.578	1.00 84.88	A16S
ATOM	31532	O2P	U	A1495	201.844	90.278	-11.830	1.00 84.88	A16S
ATOM	31533	O5*	U	A1495	202.634	88.348	-13.187	1.00 76.54	A16S
ATOM	31534	C5*	U	A1495	203.212	87.041	-13.351	1.00 76.54	A16S
ATOM	31535	C4*	U	A1495	202.873	86.490	-14.710	1.00 76.54	A16S
ATOM	31536	O4*	U	A1495	201.485	86.077	-14.757	1.00 76.54	A16S
ATOM	31537	C1*	U	A1495	200.955	86.321	-16.050	1.00 76.54	A16S
ATOM	31538	N1	U	A1495	199.793	87.218	-15.925	1.00 84.88	A16S
ATOM	31539	C6	U	A1495	199.634	88.037	-14.823	1.00 84.88	A16S
ATOM	31540	C2	U	A1495	198.854	87.221	-16.954	1.00 84.88	A16S
ATOM	31541	O2	U	A1495	198.951	86.519	-17.960	1.00 84.88	A16S
ATOM	31542	N3	U	A1495	197.797	88.083	-16.766	1.00 84.88	A16S
ATOM	31543	C4	U	A1495	197.581	88.926	-15.686	1.00 84.88	A16S
ATOM	31544	O4	U	A1495	196.555	89.625	-15.648	1.00 84.88	A16S
ATOM	31545	C5	U	A1495	198.594	88.865	-14.675	1.00 84.88	A16S
ATOM	31546	C2*	U	A1495	202.078	86.908	-16.907	1.00 76.54	A16S
ATOM	31547	O2*	U	A1495	202.677	85.885	-17.675	1.00 76.54	A16S
ATOM	31548	C3*	U	A1495	203.006	87.480	-15.846	1.00 76.54	A16S
ATOM	31549	O3*	U	A1495	204.343	87.611	-16.276	1.00 76.54	A16S
ATOM	31550	P	C	A1496	204.845	89.026	-16.834	1.00 58.43	A16S
ATOM	31551	O1P	C	A1496	206.329	88.968	-16.899	1.00 71.86	A16S
ATOM	31552	O2P	C	A1496	204.188	90.103	-16.040	1.00 71.86	A16S
ATOM	31553	O5*	C	A1496	204.261	89.053	-18.315	1.00 58.43	A16S
ATOM	31554	C5*	C	A1496	204.705	88.086	-19.282	1.00 58.43	A16S
ATOM	31555	C4*	C	A1496	203.929	88.222	-20.564	1.00 58.43	A16S
ATOM	31556	O4*	C	A1496	202.579	87.735	-20.370	1.00 58.43	A16S
ATOM	31557	C1*	C	A1496	201.674	88.546	-21.097	1.00 58.43	A16S
ATOM	31558	N1	C	A1496	200.821	89.262	-20.132	1.00 71.86	A16S
ATOM	31559	C6	C	A1496	201.215	89.409	-18.831	1.00 71.86	A16S
ATOM	31560	C2	C	A1496	199.601	89.799	-20.564	1.00 71.86	A16S
ATOM	31561	O2	C	A1496	199.266	89.665	-21.748	1.00 71.86	A16S
ATOM	31562	N3	C	A1496	198.824	90.456	-19.681	1.00 71.86	A16S
ATOM	31563	C4	C	A1496	199.219	90.587	-18.412	1.00 71.86	A16S

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ATOM	31564	N4	C	A1496	198.415	91.235	-17.568	1.00	71.86	A16S
ATOM	31565	C5	C	A1496	200.454	90.059	-17.949	1.00	71.86	A16S
ATOM	31566	C2*	C	A1496	202.504	89.530	-21.920	1.00	58.43	A16S
ATOM	31567	O2*	C	A1496	202.756	88.981	-23.198	1.00	58.43	A16S
ATOM	31568	C3*	C	A1496	203.759	89.641	-21.073	1.00	58.43	A16S
ATOM	31569	O3*	C	A1496	204.883	90.108	-21.799	1.00	58.43	A16S
ATOM	31570	P	G	A1497	205.462	91.581	-21.495	1.00	61.89	A16S
ATOM	31571	O1P	G	A1497	206.743	91.657	-22.245	1.00	66.07	A16S
ATOM	31572	O2P	G	A1497	205.460	91.827	-20.018	1.00	66.07	A16S
ATOM	31573	O5*	G	A1497	204.402	92.559	-22.185	1.00	61.89	A16S
ATOM	31574	C5*	G	A1497	204.373	92.679	-23.617	1.00	61.89	A16S
ATOM	31575	C4*	G	A1497	202.968	92.916	-24.137	1.00	61.89	A16S
ATOM	31576	O4*	G	A1497	201.982	92.167	-23.373	1.00	61.89	A16S
ATOM	31577	C1*	G	A1497	200.713	92.785	-23.515	1.00	61.89	A16S
ATOM	31578	N9	G	A1497	200.144	93.076	-22.202	1.00	66.07	A16S
ATOM	31579	C4	G	A1497	198.843	93.455	-21.961	1.00	66.07	A16S
ATOM	31580	N3	G	A1497	197.873	93.595	-22.891	1.00	66.07	A16S
ATOM	31581	C2	G	A1497	196.718	93.969	-22.355	1.00	66.07	A16S
ATOM	31582	N2	G	A1497	195.636	94.126	-23.136	1.00	66.07	A16S
ATOM	31583	N1	G	A1497	196.536	94.209	-21.016	1.00	66.07	A16S
ATOM	31584	C6	G	A1497	197.520	94.086	-20.043	1.00	66.07	A16S
ATOM	31585	O6	G	A1497	197.250	94.344	-18.866	1.00	66.07	A16S
ATOM	31586	C5	G	A1497	198.766	93.661	-20.603	1.00	66.07	A16S
ATOM	31587	N7	G	A1497	199.990	93.406	-19.998	1.00	66.07	A16S
ATOM	31588	C8	G	A1497	200.774	93.059	-20.982	1.00	66.07	A16S
ATOM	31589	C2*	G	A1497	200.922	94.069	-24.312	1.00	61.89	A16S
ATOM	31590	O2*	G	A1497	200.631	93.808	-25.665	1.00	61.89	A16S
ATOM	31591	C3*	G	A1497	202.410	94.328	-24.129	1.00	61.89	A16S
ATOM	31592	O3*	G	A1497	202.897	95.101	-25.218	1.00	61.89	A16S
ATOM	31593	P	U	A1498	202.865	96.706	-25.126	1.00	42.79	A16S
ATOM	31594	O1P	U	A1498	203.204	97.272	-26.461	1.00	45.14	A16S
ATOM	31595	O2P	U	A1498	203.647	97.131	-23.939	1.00	45.14	A16S
ATOM	31596	O5*	U	A1498	201.334	97.024	-24.829	1.00	42.79	A16S
ATOM	31597	C5*	U	A1498	200.299	96.511	-25.691	1.00	42.79	A16S
ATOM	31598	C4*	U	A1498	198.977	97.186	-25.402	1.00	42.79	A16S
ATOM	31599	O4*	U	A1498	198.503	96.856	-24.071	1.00	42.79	A16S
ATOM	31600	C1*	U	A1498	198.253	98.027	-23.328	1.00	42.79	A16S
ATOM	31601	N1	U	A1498	198.657	97.736	-21.944	1.00	45.14	A16S
ATOM	31602	C6	U	A1498	199.841	97.114	-21.672	1.00	45.14	A16S
ATOM	31603	C2	U	A1498	197.787	98.069	-20.928	1.00	45.14	A16S
ATOM	31604	O2	U	A1498	196.746	98.669	-21.120	1.00	45.14	A16S
ATOM	31605	N3	U	A1498	198.178	97.680	-19.670	1.00	45.14	A16S
ATOM	31606	C4	U	A1498	199.333	97.021	-19.328	1.00	45.14	A16S
ATOM	31607	O4	U	A1498	199.520	96.673	-18.155	1.00	45.14	A16S
ATOM	31608	C5	U	A1498	200.201	96.752	-20.433	1.00	45.14	A16S
ATOM	31609	C2*	U	A1498	198.957	99.195	-24.024	1.00	42.79	A16S
ATOM	31610	O2*	U	A1498	198.130	100.326	-23.889	1.00	42.79	A16S
ATOM	31611	C3*	U	A1498	199.024	98.687	-25.461	1.00	42.79	A16S
ATOM	31612	O3*	U	A1498	198.898	99.350	-26.713	1.00	42.79	A16S
ATOM	31613	P	A	A1499	197.474	99.907	-27.208	1.00	41.34	A16S
ATOM	31614	O1P	A	A1499	197.713	100.526	-28.551	1.00	50.29	A16S
ATOM	31615	O2P	A	A1499	196.860	100.726	-26.114	1.00	50.29	A16S
ATOM	31616	O5*	A	A1499	196.554	98.626	-27.456	1.00	41.34	A16S
ATOM	31617	C5*	A	A1499	195.859	98.469	-28.721	1.00	41.34	A16S
ATOM	31618	C4*	A	A1499	194.351	98.564	-28.547	1.00	41.34	A16S
ATOM	31619	O4*	A	A1499	193.896	97.475	-27.709	1.00	41.34	A16S
ATOM	31620	C1*	A	A1499	192.835	97.914	-26.886	1.00	41.34	A16S
ATOM	31621	N9	A	A1499	193.345	97.938	-25.525	1.00	50.29	A16S
ATOM	31622	C4	A	A1499	192.643	98.248	-24.393	1.00	50.29	A16S
ATOM	31623	N3	A	A1499	191.346	98.574	-24.303	1.00	50.29	A16S
ATOM	31624	C2	A	A1499	191.017	98.812	-23.035	1.00	50.29	A16S
ATOM	31625	N1	A	A1499	191.783	98.770	-21.939	1.00	50.29	A16S
ATOM	31626	C6	A	A1499	193.086	98.449	-22.082	1.00	50.29	A16S
ATOM	31627	N6	A	A1499	193.867	98.423	-21.009	1.00	50.29	A16S
ATOM	31628	C5	A	A1499	193.551	98.166	-23.360	1.00	50.29	A16S
ATOM	31629	N7	A	A1499	194.803	97.804	-23.831	1.00	50.29	A16S
ATOM	31630	C8	A	A1499	194.627	97.676	-25.116	1.00	50.29	A16S
ATOM	31631	C2*	A	A1499	192.463	99.326	-27.328	1.00	41.34	A16S
ATOM	31632	O2*	A	A1499	191.438	99.246	-28.295	1.00	41.34	A16S
ATOM	31633	C3*	A	A1499	193.782	99.820	-27.902	1.00	41.34	A16S
ATOM	31634	O3*	A	A1499	193.557	100.851	-28.841	1.00	41.34	A16S
ATOM	31635	P	A	A1500	193.477	102.365	-28.334	1.00	35.74	A16S
ATOM	31636	O1P	A	A1500	193.306	103.258	-29.505	1.00	47.71	A16S
ATOM	31637	O2P	A	A1500	194.585	102.613	-27.381	1.00	47.71	A16S
ATOM	31638	O5*	A	A1500	192.150	102.364	-27.471	1.00	35.74	A16S
ATOM	31639	C5*	A	A1500	190.889	102.017	-28.057	1.00	35.74	A16S
ATOM	31640	C4*	A	A1500	189.772	102.249	-27.065	1.00	35.74	A16S

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ATOM	31641	O4*	A	A1500	189.900	101.321	-25.953	1.00	35.74	A16S
ATOM	31642	C1*	A	A1500	189.563	101.975	-24.744	1.00	35.74	A16S
ATOM	31643	N9	A	A1500	190.774	102.064	-23.928	1.00	47.71	A16S
ATOM	31644	C4	A	A1500	190.834	102.397	-22.599	1.00	47.71	A16S
ATOM	31645	N3	A	A1500	189.811	102.728	-21.796	1.00	47.71	A16S
ATOM	31646	C2	A	A1500	190.247	102.968	-20.558	1.00	47.71	A16S
ATOM	31647	N1	A	A1500	191.490	102.912	-20.074	1.00	47.71	A16S
ATOM	31648	C6	A	A1500	192.491	102.568	-20.904	1.00	47.71	A16S
ATOM	31649	N6	A	A1500	193.723	102.489	-20.408	1.00	47.71	A16S
ATOM	31650	C5	A	A1500	192.167	102.300	-22.244	1.00	47.71	A16S
ATOM	31651	N7	A	A1500	192.940	101.935	-23.335	1.00	47.71	A16S
ATOM	31652	C8	A	A1500	192.071	101.816	-24.308	1.00	47.71	A16S
ATOM	31653	C2*	A	A1500	189.013	103.343	-25.124	1.00	35.74	A16S
ATOM	31654	O2*	A	A1500	187.642	103.177	-25.425	1.00	35.74	A16S
ATOM	31655	C3*	A	A1500	189.768	103.618	-26.409	1.00	35.74	A16S
ATOM	31656	O3*	A	A1500	189.138	104.601	-27.212	1.00	35.74	A16S
ATOM	31657	P	C	A1501	189.765	106.081	-27.267	1.00	32.73	A16S
ATOM	31658	O1P	C	A1501	188.989	106.861	-28.293	1.00	46.18	A16S
ATOM	31659	O2P	C	A1501	191.251	105.959	-27.390	1.00	46.18	A16S
ATOM	31660	O5*	C	A1501	189.449	106.685	-25.823	1.00	32.73	A16S
ATOM	31661	C5*	C	A1501	188.082	106.912	-25.425	1.00	32.73	A16S
ATOM	31662	C4*	C	A1501	187.997	107.459	-24.015	1.00	32.73	A16S
ATOM	31663	O4*	C	A1501	188.474	106.466	-23.082	1.00	32.73	A16S
ATOM	31664	C1*	C	A1501	188.958	107.116	-21.930	1.00	32.73	A16S
ATOM	31665	N1	C	A1501	190.338	106.691	-21.677	1.00	46.18	A16S
ATOM	31666	C6	C	A1501	191.052	106.014	-22.618	1.00	46.18	A16S
ATOM	31667	C2	C	A1501	190.906	106.982	-20.434	1.00	46.18	A16S
ATOM	31668	O2	C	A1501	190.244	107.635	-19.599	1.00	46.18	A16S
ATOM	31669	N3	C	A1501	192.152	106.559	-20.169	1.00	46.18	A16S
ATOM	31670	C4	C	A1501	192.830	105.880	-21.084	1.00	46.18	A16S
ATOM	31671	N4	C	A1501	194.046	105.469	-20.764	1.00	46.18	A16S
ATOM	31672	C5	C	A1501	192.288	105.591	-22.364	1.00	46.18	A16S
ATOM	31673	C2*	C	A1501	188.818	108.624	-22.133	1.00	32.73	A16S
ATOM	31674	O2*	C	A1501	187.620	109.030	-21.499	1.00	32.73	A16S
ATOM	31675	C3*	C	A1501	188.747	108.735	-23.650	1.00	32.73	A16S
ATOM	31676	O3*	C	A1501	187.996	109.895	-23.966	1.00	32.73	A16S
ATOM	31677	P	A	A1502	188.243	110.648	-25.353	1.00	44.28	A16S
ATOM	31678	O1P	A	A1502	187.264	111.751	-25.459	1.00	62.11	A16S
ATOM	31679	O2P	A	A1502	188.347	109.653	-26.443	1.00	62.11	A16S
ATOM	31680	O5*	A	A1502	189.687	111.279	-25.236	1.00	44.28	A16S
ATOM	31681	C5*	A	A1502	190.100	111.942	-24.064	1.00	44.28	A16S
ATOM	31682	C4*	A	A1502	190.795	113.234	-24.418	1.00	44.28	A16S
ATOM	31683	O4*	A	A1502	191.523	113.639	-23.233	1.00	44.28	A16S
ATOM	31684	C1*	A	A1502	192.894	113.729	-23.518	1.00	44.28	A16S
ATOM	31685	N9	A	A1502	193.638	113.375	-22.306	1.00	62.11	A16S
ATOM	31686	C4	A	A1502	194.689	112.521	-22.169	1.00	62.11	A16S
ATOM	31687	N3	A	A1502	195.233	111.760	-23.122	1.00	62.11	A16S
ATOM	31688	C2	A	A1502	196.259	111.091	-22.628	1.00	62.11	A16S
ATOM	31689	N1	A	A1502	196.770	111.109	-21.374	1.00	62.11	A16S
ATOM	31690	C6	A	A1502	196.182	111.899	-20.450	1.00	62.11	A16S
ATOM	31691	N6	A	A1502	196.681	111.950	-19.218	1.00	62.11	A16S
ATOM	31692	C5	A	A1502	195.090	112.629	-20.843	1.00	62.11	A16S
ATOM	31693	N7	A	A1502	194.280	113.494	-20.147	1.00	62.11	A16S
ATOM	31694	C8	A	A1502	193.430	113.904	-21.050	1.00	62.11	A16S
ATOM	31695	C2*	A	A1502	193.129	112.928	-24.799	1.00	44.28	A16S
ATOM	31696	O2*	A	A1502	194.250	113.459	-25.478	1.00	44.28	A16S
ATOM	31697	C3*	A	A1502	191.818	113.174	-25.551	1.00	44.28	A16S
ATOM	31698	O3*	A	A1502	191.875	114.477	-26.152	1.00	44.28	A16S
ATOM	31699	P	A	A1503	190.864	114.885	-27.335	1.00	56.91	A16S
ATOM	31700	O1P	A	A1503	190.853	116.366	-27.434	1.00	76.35	A16S
ATOM	31701	O2P	A	A1503	189.580	114.149	-27.175	1.00	76.35	A16S
ATOM	31702	O5*	A	A1503	191.605	114.379	-28.644	1.00	56.91	A16S
ATOM	31703	C5*	A	A1503	190.911	113.619	-29.652	1.00	56.91	A16S
ATOM	31704	C4*	A	A1503	191.911	112.982	-30.587	1.00	56.91	A16S
ATOM	31705	O4*	A	A1503	192.611	114.041	-31.299	1.00	56.91	A16S
ATOM	31706	C1*	A	A1503	193.996	113.930	-31.068	1.00	56.91	A16S
ATOM	31707	N9	A	A1503	194.565	115.277	-31.065	1.00	76.35	A16S
ATOM	31708	C4	A	A1503	195.087	115.907	-32.169	1.00	76.35	A16S
ATOM	31709	N3	A	A1503	195.167	115.424	-33.421	1.00	76.35	A16S
ATOM	31710	C2	A	A1503	195.736	116.312	-34.236	1.00	76.35	A16S
ATOM	31711	N1	A	A1503	196.200	117.536	-33.964	1.00	76.35	A16S
ATOM	31712	C6	A	A1503	196.105	117.995	-32.696	1.00	76.35	A16S
ATOM	31713	N6	A	A1503	196.573	119.220	-32.426	1.00	76.35	A16S
ATOM	31714	C5	A	A1503	195.515	117.144	-31.732	1.00	76.35	A16S
ATOM	31715	N7	A	A1503	195.261	117.297	-30.377	1.00	76.35	A16S
ATOM	31716	C8	A	A1503	194.697	116.166	-30.031	1.00	76.35	A16S
ATOM	31717	C2*	A	A1503	194.154	113.110	-29.787	1.00	56.91	A16S

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ATOM	31718	O2*	A	A1503	195.429	112.512	-29.721	1.00	56.91	A16S
ATOM	31719	C3*	A	A1503	192.983	112.130	-29.907	1.00	56.91	A16S
ATOM	31720	O3*	A	A1503	193.292	111.026	-30.776	1.00	56.91	A16S
ATOM	31721	P	G	A1504	193.644	109.573	-30.164	1.00	38.79	A16S
ATOM	31722	O1P	G	A1504	194.320	108.782	-31.240	1.00	58.62	A16S
ATOM	31723	O2P	G	A1504	192.458	108.991	-29.472	1.00	58.62	A16S
ATOM	31724	O5*	G	A1504	194.780	109.908	-29.106	1.00	38.79	A16S
ATOM	31725	C5*	G	A1504	194.592	109.666	-27.726	1.00	38.79	A16S
ATOM	31726	C4*	G	A1504	195.358	108.453	-27.332	1.00	38.79	A16S
ATOM	31727	O4*	G	A1504	195.505	108.453	-25.906	1.00	38.79	A16S
ATOM	31728	C1*	G	A1504	194.716	107.434	-25.331	1.00	38.79	A16S
ATOM	31729	N9	G	A1504	193.813	108.079	-24.378	1.00	58.62	A16S
ATOM	31730	C4	G	A1504	194.074	108.345	-23.047	1.00	58.62	A16S
ATOM	31731	N3	G	A1504	195.202	108.034	-22.378	1.00	58.62	A16S
ATOM	31732	C2	G	A1504	195.146	108.410	-21.114	1.00	58.62	A16S
ATOM	31733	N2	G	A1504	196.169	108.178	-20.299	1.00	58.62	A16S
ATOM	31734	N1	G	A1504	194.083	109.042	-20.553	1.00	58.62	A16S
ATOM	31735	C6	G	A1504	192.920	109.385	-21.218	1.00	58.62	A16S
ATOM	31736	O6	G	A1504	192.026	109.978	-20.610	1.00	58.62	A16S
ATOM	31737	C5	G	A1504	192.951	108.978	-22.575	1.00	58.62	A16S
ATOM	31738	N7	G	A1504	191.998	109.104	-23.576	1.00	58.62	A16S
ATOM	31739	C8	G	A1504	192.551	108.558	-24.624	1.00	58.62	A16S
ATOM	31740	C2*	G	A1504	194.019	106.630	-26.437	1.00	38.79	A16S
ATOM	31741	O2*	G	A1504	194.191	105.240	-26.209	1.00	38.79	A16S
ATOM	31742	C3*	G	A1504	194.682	107.157	-27.716	1.00	38.79	A16S
ATOM	31743	O3*	G	A1504	195.375	106.358	-28.712	1.00	38.79	A16S
ATOM	31744	P	G	A1505	196.458	105.224	-28.305	1.00	36.65	A16S
ATOM	31745	O1P	G	A1505	196.002	103.971	-28.940	1.00	40.43	A16S
ATOM	31746	O2P	G	A1505	196.757	105.221	-26.856	1.00	40.43	A16S
ATOM	31747	O5*	G	A1505	197.766	105.728	-29.074	1.00	36.65	A16S
ATOM	31748	C5*	G	A1505	197.668	106.394	-30.367	1.00	36.65	A16S
ATOM	31749	C4*	G	A1505	198.744	107.453	-30.506	1.00	36.65	A16S
ATOM	31750	O4*	G	A1505	198.539	108.414	-29.459	1.00	36.65	A16S
ATOM	31751	C1*	G	A1505	199.752	108.691	-28.809	1.00	36.65	A16S
ATOM	31752	N9	G	A1505	199.610	108.246	-27.434	1.00	40.43	A16S
ATOM	31753	C4	G	A1505	199.193	109.025	-26.397	1.00	40.43	A16S
ATOM	31754	N3	G	A1505	198.908	110.338	-26.473	1.00	40.43	A16S
ATOM	31755	C2	G	A1505	198.486	110.812	-25.329	1.00	40.43	A16S
ATOM	31756	N2	G	A1505	198.137	112.100	-25.250	1.00	40.43	A16S
ATOM	31757	N1	G	A1505	198.370	110.057	-24.183	1.00	40.43	A16S
ATOM	31758	C6	G	A1505	198.665	108.703	-24.081	1.00	40.43	A16S
ATOM	31759	O6	G	A1505	198.529	108.114	-22.997	1.00	40.43	A16S
ATOM	31760	C5	G	A1505	199.105	108.182	-25.314	1.00	40.43	A16S
ATOM	31761	N7	G	A1505	199.497	106.899	-25.658	1.00	40.43	A16S
ATOM	31762	C8	G	A1505	199.800	106.988	-26.925	1.00	40.43	A16S
ATOM	31763	C2*	G	A1505	200.881	108.055	-29.604	1.00	36.65	A16S
ATOM	31764	O2*	G	A1505	201.422	109.076	-30.422	1.00	36.65	A16S
ATOM	31765	C3*	G	A1505	200.162	106.929	-30.349	1.00	36.65	A16S
ATOM	31766	O3*	G	A1505	200.774	106.801	-31.638	1.00	36.65	A16S
ATOM	31767	P	U	A1506	200.532	105.490	-32.541	1.00	50.37	A16S
ATOM	31768	O1P	U	A1506	200.288	104.277	-31.649	1.00	46.43	A16S
ATOM	31769	O2P	U	A1506	201.660	105.469	-33.525	1.00	46.43	A16S
ATOM	31770	O5*	U	A1506	199.238	105.883	-33.389	1.00	50.37	A16S
ATOM	31771	C5*	U	A1506	199.262	107.043	-34.257	1.00	50.37	A16S
ATOM	31772	C4*	U	A1506	198.207	106.923	-35.336	1.00	50.37	A16S
ATOM	31773	O4*	U	A1506	198.303	105.597	-35.916	1.00	50.37	A16S
ATOM	31774	C1*	U	A1506	197.060	104.940	-35.813	1.00	50.37	A16S
ATOM	31775	N1	U	A1506	197.318	103.505	-35.614	1.00	46.43	A16S
ATOM	31776	C6	U	A1506	197.841	103.013	-34.435	1.00	46.43	A16S
ATOM	31777	C2	U	A1506	197.024	102.651	-36.673	1.00	46.43	A16S
ATOM	31778	O2	U	A1506	196.572	103.048	-37.742	1.00	46.43	A16S
ATOM	31779	N3	U	A1506	197.292	101.319	-36.437	1.00	46.43	A16S
ATOM	31780	C4	U	A1506	197.820	100.766	-35.286	1.00	46.43	A16S
ATOM	31781	O4	U	A1506	198.007	99.551	-35.226	1.00	46.43	A16S
ATOM	31782	C5	U	A1506	198.099	101.710	-34.245	1.00	46.43	A16S
ATOM	31783	C2*	U	A1506	196.295	105.656	-34.701	1.00	50.37	A16S
ATOM	31784	O2*	U	A1506	194.898	105.482	-34.838	1.00	50.37	A16S
ATOM	31785	C3*	U	A1506	196.755	107.096	-34.905	1.00	50.37	A16S
ATOM	31786	O3*	U	A1506	196.028	107.635	-36.014	1.00	50.37	A16S
ATOM	31787	P	A	A1507	195.414	109.123	-35.950	1.00	49.76	A16S
ATOM	31788	O1P	A	A1507	194.641	109.381	-37.217	1.00	46.76	A16S
ATOM	31789	O2P	A	A1507	196.503	110.059	-35.542	1.00	46.76	A16S
ATOM	31790	O5*	A	A1507	194.371	109.064	-34.747	1.00	49.76	A16S
ATOM	31791	C5*	A	A1507	193.293	108.098	-34.725	1.00	49.76	A16S
ATOM	31792	C4*	A	A1507	192.282	108.471	-33.658	1.00	49.76	A16S
ATOM	31793	O4*	A	A1507	191.556	109.661	-34.059	1.00	49.76	A16S
ATOM	31794	C1*	A	A1507	190.191	109.539	-33.709	1.00	49.76	A16S

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ATOM	31795	N9	A	A1507	189.429	109.522	-34.960	1.00	46.76	A16S
ATOM	31796	C4	A	A1507	188.067	109.426	-35.114	1.00	46.76	A16S
ATOM	31797	N3	A	A1507	187.140	109.343	-34.150	1.00	46.76	A16S
ATOM	31798	C2	A	A1507	185.913	109.269	-34.681	1.00	46.76	A16S
ATOM	31799	N1	A	A1507	185.540	109.249	-35.967	1.00	46.76	A16S
ATOM	31800	C6	A	A1507	186.500	109.315	-36.910	1.00	46.76	A16S
ATOM	31801	N6	A	A1507	186.139	109.261	-38.191	1.00	46.76	A16S
ATOM	31802	C5	A	A1507	187.840	109.425	-36.479	1.00	46.76	A16S
ATOM	31803	N7	A	A1507	189.036	109.533	-37.174	1.00	46.76	A16S
ATOM	31804	C8	A	A1507	189.943	109.588	-36.232	1.00	46.76	A16S
ATOM	31805	C2*	A	A1507	190.051	108.261	-32.882	1.00	49.76	A16S
ATOM	31806	O2*	A	A1507	190.188	108.584	-31.507	1.00	49.76	A16S
ATOM	31807	C3*	A	A1507	191.210	107.432	-33.417	1.00	49.76	A16S
ATOM	31808	O3*	A	A1507	191.697	106.460	-32.514	1.00	49.76	A16S
ATOM	31809	P	G	A1508	191.444	104.909	-32.826	1.00	45.45	A16S
ATOM	31810	O1P	G	A1508	192.418	104.099	-32.040	1.00	45.98	A16S
ATOM	31811	O2P	G	A1508	191.381	104.752	-34.303	1.00	45.98	A16S
ATOM	31812	O5*	G	A1508	189.980	104.663	-32.245	1.00	45.45	A16S
ATOM	31813	C5*	G	A1508	189.638	105.081	-30.902	1.00	45.45	A16S
ATOM	31814	C4*	G	A1508	188.136	105.224	-30.744	1.00	45.45	A16S
ATOM	31815	O4*	G	A1508	187.650	106.352	-31.521	1.00	45.45	A16S
ATOM	31816	C1*	G	A1508	186.342	106.081	-31.979	1.00	45.45	A16S
ATOM	31817	N9	G	A1508	186.344	106.094	-33.437	1.00	45.98	A16S
ATOM	31818	C4	G	A1508	185.265	106.327	-34.244	1.00	45.98	A16S
ATOM	31819	N3	G	A1508	184.021	106.635	-33.830	1.00	45.98	A16S
ATOM	31820	C2	G	A1508	183.196	106.816	-34.841	1.00	45.98	A16S
ATOM	31821	N2	G	A1508	181.929	107.187	-34.607	1.00	45.98	A16S
ATOM	31822	N1	G	A1508	183.559	106.664	-36.152	1.00	45.98	A16S
ATOM	31823	C6	G	A1508	184.833	106.338	-36.591	1.00	45.98	A16S
ATOM	31824	O6	G	A1508	185.049	106.218	-37.784	1.00	45.98	A16S
ATOM	31825	C5	G	A1508	185.726	106.180	-35.528	1.00	45.98	A16S
ATOM	31826	N7	G	A1508	187.074	105.883	-35.534	1.00	45.98	A16S
ATOM	31827	C8	G	A1508	187.400	105.846	-34.272	1.00	45.98	A16S
ATOM	31828	C2*	G	A1508	185.935	104.713	-31.430	1.00	45.45	A16S
ATOM	31829	O2*	G	A1508	185.241	104.877	-30.209	1.00	45.45	A16S
ATOM	31830	C3*	G	A1508	187.283	104.053	-31.198	1.00	45.45	A16S
ATOM	31831	O3*	G	A1508	187.185	103.035	-30.209	1.00	45.45	A16S
ATOM	31832	P	C	A1509	186.722	101.552	-30.645	1.00	30.69	A16S
ATOM	31833	O1P	C	A1509	186.654	100.689	-29.418	1.00	45.02	A16S
ATOM	31834	O2P	C	A1509	187.565	101.121	-31.794	1.00	45.02	A16S
ATOM	31835	O5*	C	A1509	185.237	101.768	-31.185	1.00	30.69	A16S
ATOM	31836	C5*	C	A1509	184.200	102.117	-30.279	1.00	30.69	A16S
ATOM	31837	C4*	C	A1509	182.916	102.402	-31.013	1.00	30.69	A16S
ATOM	31838	O4*	C	A1509	183.072	103.523	-31.912	1.00	30.69	A16S
ATOM	31839	C1*	C	A1509	182.162	103.392	-32.982	1.00	30.69	A16S
ATOM	31840	N1	C	A1509	182.923	103.316	-34.219	1.00	45.02	A16S
ATOM	31841	C6	C	A1509	184.275	103.151	-34.204	1.00	45.02	A16S
ATOM	31842	C2	C	A1509	182.241	103.409	-35.413	1.00	45.02	A16S
ATOM	31843	O2	C	A1509	181.016	103.549	-35.388	1.00	45.02	A16S
ATOM	31844	N3	C	A1509	182.919	103.340	-36.566	1.00	45.02	A16S
ATOM	31845	C4	C	A1509	184.235	103.176	-36.548	1.00	45.02	A16S
ATOM	31846	N4	C	A1509	184.867	103.105	-37.714	1.00	45.02	A16S
ATOM	31847	C5	C	A1509	184.963	103.076	-35.335	1.00	45.02	A16S
ATOM	31848	C2*	C	A1509	181.372	102.106	-32.766	1.00	30.69	A16S
ATOM	31849	O2*	C	A1509	180.188	102.450	-32.084	1.00	30.69	A16S
ATOM	31850	C3*	C	A1509	182.320	101.313	-31.883	1.00	30.69	A16S
ATOM	31851	O3*	C	A1509	181.604	100.392	-31.094	1.00	30.69	A16S
ATOM	31852	P	U	A1510	181.582	98.849	-31.514	1.00	32.81	A16S
ATOM	31853	O1P	U	A1510	180.867	98.112	-30.432	1.00	51.46	A16S
ATOM	31854	O2P	U	A1510	182.960	98.435	-31.897	1.00	51.46	A16S
ATOM	31855	O5*	U	A1510	180.695	98.870	-32.832	1.00	32.81	A16S
ATOM	31856	C5*	U	A1510	179.409	99.472	-32.815	1.00	32.81	A16S
ATOM	31857	C4*	U	A1510	178.890	99.617	-34.217	1.00	32.81	A16S
ATOM	31858	O4*	U	A1510	179.660	100.602	-34.933	1.00	32.81	A16S
ATOM	31859	C1*	U	A1510	179.660	100.290	-36.307	1.00	32.81	A16S
ATOM	31860	N1	U	A1510	181.049	100.201	-36.752	1.00	51.46	A16S
ATOM	31861	C6	U	A1510	182.064	99.959	-35.859	1.00	51.46	A16S
ATOM	31862	C2	U	A1510	181.299	100.369	-38.102	1.00	51.46	A16S
ATOM	31863	O2	U	A1510	180.418	100.610	-38.918	1.00	51.46	A16S
ATOM	31864	N3	U	A1510	182.618	100.252	-38.458	1.00	51.46	A16S
ATOM	31865	C4	U	A1510	183.688	100.002	-37.613	1.00	51.46	A16S
ATOM	31866	O4	U	A1510	184.823	99.886	-38.085	1.00	51.46	A16S
ATOM	31867	C5	U	A1510	183.337	99.862	-36.230	1.00	51.46	A16S
ATOM	31868	C2*	U	A1510	178.897	98.984	-36.491	1.00	32.81	A16S
ATOM	31869	O2*	U	A1510	177.574	99.304	-36.856	1.00	32.81	A16S
ATOM	31870	C3*	U	A1510	178.964	98.387	-35.096	1.00	32.81	A16S
ATOM	31871	O3*	U	A1510	177.865	97.539	-34.835	1.00	32.81	A16S

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ATOM	31872	P	G	A1511	178.086	95.956	-34.783	1.00	31.71	A16S
ATOM	31873	O1P	G	A1511	177.079	95.423	-33.814	1.00	40.92	A16S
ATOM	31874	O2P	G	A1511	179.526	95.643	-34.581	1.00	40.92	A16S
ATOM	31875	O5*	G	A1511	177.684	95.538	-36.262	1.00	31.71	A16S
ATOM	31876	C5*	G	A1511	176.308	95.430	-36.630	1.00	31.71	A16S
ATOM	31877	C4*	G	A1511	176.189	95.126	-38.092	1.00	31.71	A16S
ATOM	31878	O4*	G	A1511	176.707	96.262	-38.826	1.00	31.71	A16S
ATOM	31879	C1*	G	A1511	177.384	95.822	-39.994	1.00	31.71	A16S
ATOM	31880	N9	G	A1511	178.789	96.188	-39.840	1.00	40.92	A16S
ATOM	31881	C4	G	A1511	179.737	96.338	-40.836	1.00	40.92	A16S
ATOM	31882	N3	G	A1511	179.538	96.187	-42.162	1.00	40.92	A16S
ATOM	31883	C2	G	A1511	180.644	96.408	-42.852	1.00	40.92	A16S
ATOM	31884	N2	G	A1511	180.629	96.325	-44.178	1.00	40.92	A16S
ATOM	31885	N1	G	A1511	181.845	96.733	-42.289	1.00	40.92	A16S
ATOM	31886	C6	G	A1511	182.074	96.882	-40.931	1.00	40.92	A16S
ATOM	31887	O6	G	A1511	183.202	97.161	-40.523	1.00	40.92	A16S
ATOM	31888	C5	G	A1511	180.903	96.666	-40.180	1.00	40.92	A16S
ATOM	31889	N7	G	A1511	180.697	96.723	-38.809	1.00	40.92	A16S
ATOM	31890	C8	G	A1511	179.433	96.435	-38.655	1.00	40.92	A16S
ATOM	31891	C2*	G	A1511	177.210	94.303	-40.068	1.00	31.71	A16S
ATOM	31892	O2*	G	A1511	176.116	93.982	-40.922	1.00	31.71	A16S
ATOM	31893	C3*	G	A1511	177.005	93.954	-38.597	1.00	31.71	A16S
ATOM	31894	O3*	G	A1511	176.387	92.703	-38.393	1.00	31.71	A16S
ATOM	31895	P	U	A1512	177.316	91.417	-38.130	1.00	38.85	A16S
ATOM	31896	O1P	U	A1512	176.472	90.211	-37.895	1.00	48.21	A16S
ATOM	31897	O2P	U	A1512	178.315	91.813	-37.107	1.00	48.21	A16S
ATOM	31898	O5*	U	A1512	178.066	91.220	-39.525	1.00	38.85	A16S
ATOM	31899	C5*	U	A1512	177.315	91.069	-40.752	1.00	38.85	A16S
ATOM	31900	C4*	U	A1512	178.233	91.144	-41.954	1.00	38.85	A16S
ATOM	31901	O4*	U	A1512	178.782	92.482	-42.082	1.00	38.85	A16S
ATOM	31902	C1*	U	A1512	180.118	92.411	-42.571	1.00	38.85	A16S
ATOM	31903	N1	U	A1512	181.026	92.982	-41.558	1.00	48.21	A16S
ATOM	31904	C6	U	A1512	180.683	93.029	-40.225	1.00	48.21	A16S
ATOM	31905	C2	U	A1512	182.240	93.465	-41.987	1.00	48.21	A16S
ATOM	31906	O2	U	A1512	182.592	93.407	-43.148	1.00	48.21	A16S
ATOM	31907	N3	U	A1512	183.036	94.000	-41.003	1.00	48.21	A16S
ATOM	31908	C4	U	A1512	182.751	94.079	-39.655	1.00	48.21	A16S
ATOM	31909	O4	U	A1512	183.544	94.643	-38.890	1.00	48.21	A16S
ATOM	31910	C5	U	A1512	181.485	93.538	-39.289	1.00	48.21	A16S
ATOM	31911	C2*	U	A1512	180.420	90.941	-42.869	1.00	38.85	A16S
ATOM	31912	O2*	U	A1512	180.134	90.706	-44.231	1.00	38.85	A16S
ATOM	31913	C3*	U	A1512	179.450	90.231	-41.929	1.00	38.85	A16S
ATOM	31914	O3*	U	A1512	179.103	88.948	-42.396	1.00	38.85	A16S
ATOM	31915	P	A	A1513	179.957	87.670	-41.931	1.00	47.18	A16S
ATOM	31916	O1P	A	A1513	179.328	86.513	-42.628	1.00	45.80	A16S
ATOM	31917	O2P	A	A1513	180.103	87.645	-40.446	1.00	45.80	A16S
ATOM	31918	O5*	A	A1513	181.377	87.920	-42.608	1.00	47.18	A16S
ATOM	31919	C5*	A	A1513	181.527	87.798	-44.035	1.00	47.18	A16S
ATOM	31920	C4*	A	A1513	182.962	88.035	-44.438	1.00	47.18	A16S
ATOM	31921	O4*	A	A1513	183.293	89.441	-44.313	1.00	47.18	A16S
ATOM	31922	C1*	A	A1513	184.672	89.576	-44.036	1.00	47.18	A16S
ATOM	31923	N9	A	A1513	184.832	90.368	-42.821	1.00	45.80	A16S
ATOM	31924	C4	A	A1513	185.920	91.137	-42.494	1.00	45.80	A16S
ATOM	31925	N3	A	A1513	187.015	91.360	-43.238	1.00	45.80	A16S
ATOM	31926	C2	A	A1513	187.886	92.121	-42.575	1.00	45.80	A16S
ATOM	31927	N1	A	A1513	187.797	92.637	-41.345	1.00	45.80	A16S
ATOM	31928	C6	A	A1513	186.685	92.388	-40.626	1.00	45.80	A16S
ATOM	31929	N6	A	A1513	186.604	92.879	-39.391	1.00	45.80	A16S
ATOM	31930	C5	A	A1513	185.678	91.610	-41.224	1.00	45.80	A16S
ATOM	31931	N7	A	A1513	184.440	91.189	-40.777	1.00	45.80	A16S
ATOM	31932	C8	A	A1513	183.978	90.465	-41.765	1.00	45.80	A16S
ATOM	31933	C2*	A	A1513	185.269	88.168	-43.913	1.00	47.18	A16S
ATOM	31934	O2*	A	A1513	185.890	87.812	-45.130	1.00	47.18	A16S
ATOM	31935	C3*	A	A1513	184.037	87.315	-43.641	1.00	47.18	A16S
ATOM	31936	O3*	A	A1513	184.216	85.979	-44.098	1.00	47.18	A16S
ATOM	31937	P	C	A1514	184.876	84.878	-43.120	1.00	45.23	A16S
ATOM	31938	O1P	C	A1514	184.768	83.556	-43.791	1.00	46.82	A16S
ATOM	31939	O2P	C	A1514	184.326	85.036	-41.742	1.00	46.82	A16S
ATOM	31940	O5*	C	A1514	186.427	85.248	-43.130	1.00	45.23	A16S
ATOM	31941	C5*	C	A1514	187.204	85.011	-44.320	1.00	45.23	A16S
ATOM	31942	C4*	C	A1514	188.585	85.600	-44.196	1.00	45.23	A16S
ATOM	31943	O4*	C	A1514	188.506	87.042	-44.042	1.00	45.23	A16S
ATOM	31944	C1*	C	A1514	189.553	87.486	-43.200	1.00	45.23	A16S
ATOM	31945	N1	C	A1514	188.953	88.115	-42.006	1.00	46.82	A16S
ATOM	31946	C6	C	A1514	187.770	87.665	-41.500	1.00	46.82	A16S
ATOM	31947	C2	C	A1514	189.614	89.184	-41.398	1.00	46.82	A16S
ATOM	31948	O2	C	A1514	190.695	89.564	-41.857	1.00	46.82	A16S

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ATOM	31949	N3	C	A1514	189.064	89.776	-40.325	1.00	46.82	A16S
ATOM	31950	C4	C	A1514	187.904	89.338	-39.851	1.00	46.82	A16S
ATOM	31951	N4	C	A1514	187.384	89.972	-38.798	1.00	46.82	A16S
ATOM	31952	C5	C	A1514	187.219	88.239	-40.436	1.00	46.82	A16S
ATOM	31953	C2*	C	A1514	190.407	86.264	-42.850	1.00	45.23	A16S
ATOM	31954	O2*	C	A1514	191.476	86.134	-43.771	1.00	45.23	A16S
ATOM	31955	C3*	C	A1514	189.404	85.136	-43.013	1.00	45.23	A16S
ATOM	31956	O3*	C	A1514	190.047	83.906	-43.259	1.00	45.23	A16S
ATOM	31957	P	C	A1515	190.566	83.039	-42.015	1.00	39.65	A16S
ATOM	31958	O1P	C	A1515	191.166	81.800	-42.579	1.00	59.63	A16S
ATOM	31959	O2P	C	A1515	189.461	82.931	-41.021	1.00	59.63	A16S
ATOM	31960	O5*	C	A1515	191.733	83.936	-41.392	1.00	39.65	A16S
ATOM	31961	C5*	C	A1515	193.011	84.059	-42.062	1.00	39.65	A16S
ATOM	31962	C4*	C	A1515	193.948	84.963	-41.284	1.00	39.65	A16S
ATOM	31963	O4*	C	A1515	193.364	86.290	-41.199	1.00	39.65	A16S
ATOM	31964	C1*	C	A1515	193.694	86.887	-39.956	1.00	39.65	A16S
ATOM	31965	N1	C	A1515	192.449	87.135	-39.196	1.00	59.63	A16S
ATOM	31966	C6	C	A1515	191.324	86.390	-39.417	1.00	59.63	A16S
ATOM	31967	C2	C	A1515	192.441	88.145	-38.228	1.00	59.63	A16S
ATOM	31968	O2	C	A1515	193.463	88.814	-38.053	1.00	59.63	A16S
ATOM	31969	N3	C	A1515	191.323	88.366	-37.509	1.00	59.63	A16S
ATOM	31970	C4	C	A1515	190.238	87.626	-37.725	1.00	59.63	A16S
ATOM	31971	N4	C	A1515	189.161	87.873	-36.983	1.00	59.63	A16S
ATOM	31972	C5	C	A1515	190.210	86.600	-38.710	1.00	59.63	A16S
ATOM	31973	C2*	C	A1515	194.637	85.932	-39.229	1.00	39.65	A16S
ATOM	31974	O2*	C	A1515	195.972	86.300	-39.520	1.00	39.65	A16S
ATOM	31975	C3*	C	A1515	194.236	84.591	-39.835	1.00	39.65	A16S
ATOM	31976	O3*	C	A1515	195.246	83.595	-39.698	1.00	39.65	A16S
ATOM	31977	P	G	A1516	195.304	82.704	-38.355	1.00	53.47	A16S
ATOM	31978	O1P	G	A1516	196.350	81.686	-38.580	1.00	70.69	A16S
ATOM	31979	O2P	G	A1516	193.933	82.277	-37.953	1.00	70.69	A16S
ATOM	31980	O5*	G	A1516	195.880	83.714	-37.273	1.00	53.47	A16S
ATOM	31981	C5*	G	A1516	197.127	84.404	-37.513	1.00	53.47	A16S
ATOM	31982	C4*	G	A1516	197.453	85.328	-36.363	1.00	53.47	A16S
ATOM	31983	O4*	G	A1516	196.623	86.522	-36.397	1.00	53.47	A16S
ATOM	31984	C1*	G	A1516	196.276	86.896	-35.072	1.00	53.47	A16S
ATOM	31985	N9	G	A1516	194.832	86.758	-34.906	1.00	70.69	A16S
ATOM	31986	C4	G	A1516	194.063	87.363	-33.944	1.00	70.69	A16S
ATOM	31987	N3	G	A1516	194.502	88.233	-33.012	1.00	70.69	A16S
ATOM	31988	C2	G	A1516	193.523	88.648	-32.222	1.00	70.69	A16S
ATOM	31989	N2	G	A1516	193.785	89.547	-31.254	1.00	70.69	A16S
ATOM	31990	N1	G	A1516	192.215	88.221	-32.324	1.00	70.69	A16S
ATOM	31991	C6	G	A1516	191.739	87.314	-33.271	1.00	70.69	A16S
ATOM	31992	O6	G	A1516	190.533	86.979	-33.269	1.00	70.69	A16S
ATOM	31993	C5	G	A1516	192.783	86.881	-34.142	1.00	70.69	A16S
ATOM	31994	N7	G	A1516	192.746	86.013	-35.223	1.00	70.69	A16S
ATOM	31995	C8	G	A1516	193.980	85.974	-35.646	1.00	70.69	A16S
ATOM	31996	C2*	G	A1516	197.004	85.941	-34.123	1.00	53.47	A16S
ATOM	31997	O2*	G	A1516	198.232	86.514	-33.733	1.00	53.47	A16S
ATOM	31998	C3*	G	A1516	197.200	84.717	-35.002	1.00	53.47	A16S
ATOM	31999	O3*	G	A1516	198.279	83.900	-34.587	1.00	53.47	A16S
ATOM	32000	P	G	A1517	198.009	82.711	-33.541	1.00	61.12	A16S
ATOM	32001	O1P	G	A1517	196.720	82.038	-33.917	1.00	71.17	A16S
ATOM	32002	O2P	G	A1517	199.262	81.897	-33.418	1.00	71.17	A16S
ATOM	32003	O5*	G	A1517	197.746	83.491	-32.174	1.00	61.12	A16S
ATOM	32004	C5*	G	A1517	198.829	83.860	-31.286	1.00	61.12	A16S
ATOM	32005	C4*	G	A1517	198.401	83.657	-29.851	1.00	61.12	A16S
ATOM	32006	O4*	G	A1517	199.512	83.894	-28.955	1.00	61.12	A16S
ATOM	32007	C1*	G	A1517	199.036	84.466	-27.749	1.00	61.12	A16S
ATOM	32008	N9	G	A1517	199.631	85.791	-27.615	1.00	71.17	A16S
ATOM	32009	C4	G	A1517	199.630	86.581	-26.484	1.00	71.17	A16S
ATOM	32010	N3	G	A1517	199.058	86.272	-25.296	1.00	71.17	A16S
ATOM	32011	C2	G	A1517	199.254	87.218	-24.389	1.00	71.17	A16S
ATOM	32012	N2	G	A1517	198.752	87.070	-23.147	1.00	71.17	A16S
ATOM	32013	N1	G	A1517	199.957	88.377	-24.631	1.00	71.17	A16S
ATOM	32014	C6	G	A1517	200.553	88.717	-25.845	1.00	71.17	A16S
ATOM	32015	O6	G	A1517	201.183	89.786	-25.952	1.00	71.17	A16S
ATOM	32016	C5	G	A1517	200.341	87.712	-26.830	1.00	71.17	A16S
ATOM	32017	N7	G	A1517	200.756	87.647	-28.156	1.00	71.17	A16S
ATOM	32018	C8	G	A1517	200.312	86.495	-28.580	1.00	71.17	A16S
ATOM	32019	C2*	G	A1517	197.516	84.548	-27.844	1.00	61.12	A16S
ATOM	32020	O2*	G	A1517	196.913	83.409	-27.263	1.00	61.12	A16S
ATOM	32021	C3*	G	A1517	197.322	84.595	-29.347	1.00	61.12	A16S
ATOM	32022	O3*	G	A1517	196.025	84.194	-29.715	1.00	61.12	A16S
ATOM	32023	P	A	A1518	194.975	85.309	-30.189	1.00	56.32	A16S
ATOM	32024	O1P	A	A1518	193.711	84.599	-30.511	1.00	51.21	A16S
ATOM	32025	O2P	A	A1518	195.634	86.172	-31.224	1.00	51.21	A16S

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ATOM	32026	O5*	A	A1518	194.773	86.215	-28.896	1.00	56.32	A16S
ATOM	32027	C5*	A	A1518	194.145	85.710	-27.704	1.00	56.32	A16S
ATOM	32028	C4*	A	A1518	194.102	86.800	-26.667	1.00	56.32	A16S
ATOM	32029	O4*	A	A1518	195.461	87.090	-26.245	1.00	56.32	A16S
ATOM	32030	C1*	A	A1518	195.632	88.490	-26.095	1.00	56.32	A16S
ATOM	32031	N9	A	A1518	196.670	88.940	-27.030	1.00	51.21	A16S
ATOM	32032	C4	A	A1518	197.459	90.057	-26.895	1.00	51.21	A16S
ATOM	32033	N3	A	A1518	197.457	90.939	-25.881	1.00	51.21	A16S
ATOM	32034	C2	A	A1518	198.347	91.902	-26.096	1.00	51.21	A16S
ATOM	32035	N1	A	A1518	199.177	92.079	-27.140	1.00	51.21	A16S
ATOM	32036	C6	A	A1518	199.147	91.184	-28.150	1.00	51.21	A16S
ATOM	32037	N6	A	A1518	199.954	91.380	-29.198	1.00	51.21	A16S
ATOM	32038	C5	A	A1518	198.249	90.101	-28.033	1.00	51.21	A16S
ATOM	32039	N7	A	A1518	197.973	89.023	-28.862	1.00	51.21	A16S
ATOM	32040	C8	A	A1518	197.038	88.365	-28.223	1.00	51.21	A16S
ATOM	32041	C2*	A	A1518	194.274	89.157	-26.347	1.00	56.32	A16S
ATOM	32042	O2*	A	A1518	193.631	89.367	-25.110	1.00	56.32	A16S
ATOM	32043	C3*	A	A1518	193.561	88.118	-27.204	1.00	56.32	A16S
ATOM	32044	O3*	A	A1518	192.141	88.177	-27.075	1.00	56.32	A16S
ATOM	32045	P	A	A1519	191.254	88.874	-28.227	1.00	55.10	A16S
ATOM	32046	O1P	A	A1519	189.862	88.344	-28.067	1.00	51.67	A16S
ATOM	32047	O2P	A	A1519	191.934	88.777	-29.541	1.00	51.67	A16S
ATOM	32048	O5*	A	A1519	191.243	90.413	-27.838	1.00	55.10	A16S
ATOM	32049	C5*	A	A1519	190.478	90.851	-26.728	1.00	55.10	A16S
ATOM	32050	C4*	A	A1519	191.198	91.946	-26.013	1.00	55.10	A16S
ATOM	32051	O4*	A	A1519	192.597	91.579	-25.882	1.00	55.10	A16S
ATOM	32052	C1*	A	A1519	193.394	92.752	-25.845	1.00	55.10	A16S
ATOM	32053	N9	A	A1519	194.352	92.745	-26.960	1.00	51.67	A16S
ATOM	32054	C4	A	A1519	195.477	93.539	-27.022	1.00	51.67	A16S
ATOM	32055	N3	A	A1519	195.940	94.366	-26.068	1.00	51.67	A16S
ATOM	32056	C2	A	A1519	197.019	95.020	-26.492	1.00	51.67	A16S
ATOM	32057	N1	A	A1519	197.646	94.961	-27.676	1.00	51.67	A16S
ATOM	32058	C6	A	A1519	197.162	94.130	-28.622	1.00	51.67	A16S
ATOM	32059	N6	A	A1519	197.781	94.103	-29.807	1.00	51.67	A16S
ATOM	32060	C5	A	A1519	196.012	93.349	-28.286	1.00	51.67	A16S
ATOM	32061	N7	A	A1519	195.274	92.399	-28.988	1.00	51.67	A16S
ATOM	32062	C8	A	A1519	194.314	92.060	-28.154	1.00	51.67	A16S
ATOM	32063	C2*	A	A1519	192.432	93.936	-25.984	1.00	55.10	A16S
ATOM	32064	O2*	A	A1519	192.048	94.373	-24.690	1.00	55.10	A16S
ATOM	32065	C3*	A	A1519	191.260	93.291	-26.704	1.00	55.10	A16S
ATOM	32066	O3*	A	A1519	190.074	94.039	-26.540	1.00	55.10	A16S
ATOM	32067	P	G	A1520	189.447	94.818	-27.803	1.00	45.55	A16S
ATOM	32068	O1P	G	A1520	189.298	96.240	-27.402	1.00	54.61	A16S
ATOM	32069	O2P	G	A1520	188.268	94.083	-28.311	1.00	54.61	A16S
ATOM	32070	O5*	G	A1520	190.555	94.727	-28.946	1.00	45.55	A16S
ATOM	32071	C5*	G	A1520	191.641	95.672	-29.016	1.00	45.55	A16S
ATOM	32072	C4*	G	A1520	192.679	95.215	-30.027	1.00	45.55	A16S
ATOM	32073	O4*	G	A1520	192.722	93.761	-30.074	1.00	45.55	A16S
ATOM	32074	C1*	G	A1520	193.038	93.331	-31.386	1.00	45.55	A16S
ATOM	32075	N9	G	A1520	191.930	92.517	-31.883	1.00	54.61	A16S
ATOM	32076	C4	G	A1520	191.894	91.764	-33.040	1.00	54.61	A16S
ATOM	32077	N3	G	A1520	192.884	91.639	-33.940	1.00	54.61	A16S
ATOM	32078	C2	G	A1520	192.530	90.861	-34.955	1.00	54.61	A16S
ATOM	32079	N2	G	A1520	193.373	90.647	-35.964	1.00	54.61	A16S
ATOM	32080	N1	G	A1520	191.320	90.239	-35.065	1.00	54.61	A16S
ATOM	32081	C6	G	A1520	190.296	90.334	-34.146	1.00	54.61	A16S
ATOM	32082	O6	G	A1520	189.250	89.699	-34.330	1.00	54.61	A16S
ATOM	32083	C5	G	A1520	190.645	91.191	-33.063	1.00	54.61	A16S
ATOM	32084	N7	G	A1520	189.912	91.571	-31.952	1.00	54.61	A16S
ATOM	32085	C8	G	A1520	190.712	92.353	-31.283	1.00	54.61	A16S
ATOM	32086	C2*	G	A1520	193.302	94.584	-32.222	1.00	45.55	A16S
ATOM	32087	O2*	G	A1520	194.688	94.837	-32.147	1.00	45.55	A16S
ATOM	32088	C3*	G	A1520	192.496	95.641	-31.476	1.00	45.55	A16S
ATOM	32089	O3*	G	A1520	193.050	96.943	-31.665	1.00	45.55	A16S
ATOM	32090	P	G	A1521	192.781	97.755	-33.038	1.00	44.25	A16S
ATOM	32091	O1P	G	A1521	193.530	99.040	-32.925	1.00	56.74	A16S
ATOM	32092	O2P	G	A1521	191.321	97.774	-33.378	1.00	56.74	A16S
ATOM	32093	O5*	G	A1521	193.511	96.888	-34.151	1.00	44.25	A16S
ATOM	32094	C5*	G	A1521	194.935	96.883	-34.261	1.00	44.25	A16S
ATOM	32095	C4*	G	A1521	195.337	96.194	-35.530	1.00	44.25	A16S
ATOM	32096	O4*	G	A1521	194.885	94.813	-35.491	1.00	44.25	A16S
ATOM	32097	C1*	G	A1521	194.452	94.422	-36.781	1.00	44.25	A16S
ATOM	32098	N9	G	A1521	193.079	93.920	-36.674	1.00	56.74	A16S
ATOM	32099	C4	G	A1521	192.419	93.080	-37.555	1.00	56.74	A16S
ATOM	32100	N3	G	A1521	192.906	92.595	-38.713	1.00	56.74	A16S
ATOM	32101	C2	G	A1521	192.042	91.790	-39.312	1.00	56.74	A16S
ATOM	32102	N2	G	A1521	192.354	91.223	-40.479	1.00	56.74	A16S

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ATOM	32103	N1	G	A1521	190.806	91.480	-38.818	1.00	56.74	A16S
ATOM	32104	C6	G	A1521	190.282	91.966	-37.635	1.00	56.74	A16S
ATOM	32105	O6	G	A1521	189.155	91.620	-37.279	1.00	56.74	A16S
ATOM	32106	C5	G	A1521	191.191	92.838	-36.979	1.00	56.74	A16S
ATOM	32107	N7	G	A1521	191.065	93.527	-35.783	1.00	56.74	A16S
ATOM	32108	C8	G	A1521	192.200	94.161	-35.649	1.00	56.74	A16S
ATOM	32109	C2*	G	A1521	194.657	95.617	-37.726	1.00	44.25	A16S
ATOM	32110	O2*	G	A1521	195.906	95.538	-38.379	1.00	44.25	A16S
ATOM	32111	C3*	G	A1521	194.676	96.781	-36.760	1.00	44.25	A16S
ATOM	32112	O3*	G	A1521	195.394	97.882	-37.279	1.00	44.25	A16S
ATOM	32113	P	U	A1522	194.602	98.999	-38.113	1.00	39.10	A16S
ATOM	32114	O1P	U	A1522	195.525	100.125	-38.406	1.00	48.19	A16S
ATOM	32115	O2P	U	A1522	193.322	99.282	-37.412	1.00	48.19	A16S
ATOM	32116	O5*	U	A1522	194.255	98.243	-39.470	1.00	39.10	A16S
ATOM	32117	C5*	U	A1522	195.308	97.886	-40.372	1.00	39.10	A16S
ATOM	32118	C4*	U	A1522	194.796	96.991	-41.468	1.00	39.10	A16S
ATOM	32119	O4*	U	A1522	194.386	95.711	-40.919	1.00	39.10	A16S
ATOM	32120	C1*	U	A1522	193.309	95.199	-41.678	1.00	39.10	A16S
ATOM	32121	N1	U	A1522	192.129	95.085	-40.811	1.00	48.19	A16S
ATOM	32122	C6	U	A1522	192.021	95.791	-39.639	1.00	48.19	A16S
ATOM	32123	C2	U	A1522	191.115	94.258	-41.229	1.00	48.19	A16S
ATOM	32124	O2	U	A1522	191.179	93.603	-42.248	1.00	48.19	A16S
ATOM	32125	N3	U	A1522	190.016	94.227	-40.413	1.00	48.19	A16S
ATOM	32126	C4	U	A1522	189.833	94.927	-39.249	1.00	48.19	A16S
ATOM	32127	O4	U	A1522	188.741	94.886	-38.690	1.00	48.19	A16S
ATOM	32128	C5	U	A1522	190.937	95.742	-38.866	1.00	48.19	A16S
ATOM	32129	C2*	U	A1522	193.041	96.189	-42.813	1.00	39.10	A16S
ATOM	32130	O2*	U	A1522	193.804	95.823	-43.945	1.00	39.10	A16S
ATOM	32131	C3*	U	A1522	193.584	97.478	-42.232	1.00	39.10	A16S
ATOM	32132	O3*	U	A1522	193.911	98.366	-43.275	1.00	39.10	A16S
ATOM	32133	P	G	A1523	192.768	99.325	-43.857	1.00	32.77	A16S
ATOM	32134	O1P	G	A1523	193.361	100.340	-44.782	1.00	46.30	A16S
ATOM	32135	O2P	G	A1523	192.012	99.762	-42.667	1.00	46.30	A16S
ATOM	32136	O5*	G	A1523	191.816	98.355	-44.687	1.00	32.77	A16S
ATOM	32137	C5*	G	A1523	192.329	97.696	-45.845	1.00	32.77	A16S
ATOM	32138	C4*	G	A1523	191.267	96.867	-46.515	1.00	32.77	A16S
ATOM	32139	O4*	G	A1523	190.862	95.759	-45.677	1.00	32.77	A16S
ATOM	32140	C1*	G	A1523	189.518	95.430	-45.951	1.00	32.77	A16S
ATOM	32141	N9	G	A1523	188.779	95.502	-44.693	1.00	46.30	A16S
ATOM	32142	C4	G	A1523	187.539	94.955	-44.422	1.00	46.30	A16S
ATOM	32143	N3	G	A1523	186.780	94.244	-45.278	1.00	46.30	A16S
ATOM	32144	C2	G	A1523	185.657	93.827	-44.716	1.00	46.30	A16S
ATOM	32145	N2	G	A1523	184.805	93.059	-45.413	1.00	46.30	A16S
ATOM	32146	N1	G	A1523	185.287	94.117	-43.429	1.00	46.30	A16S
ATOM	32147	C6	G	A1523	186.035	94.861	-42.532	1.00	46.30	A16S
ATOM	32148	O6	G	A1523	185.591	95.080	-41.395	1.00	46.30	A16S
ATOM	32149	C5	G	A1523	187.270	95.286	-43.110	1.00	46.30	A16S
ATOM	32150	N7	G	A1523	188.319	96.017	-42.562	1.00	46.30	A16S
ATOM	32151	C8	G	A1523	189.186	96.124	-43.536	1.00	46.30	A16S
ATOM	32152	C2*	G	A1523	189.032	96.395	-47.040	1.00	32.77	A16S
ATOM	32153	O2*	G	A1523	189.242	95.834	-48.326	1.00	32.77	A16S
ATOM	32154	C3*	G	A1523	189.979	97.562	-46.863	1.00	32.77	A16S
ATOM	32155	O3*	G	A1523	190.122	98.275	-48.061	1.00	32.77	A16S
ATOM	32156	P	C	A1524	189.593	99.788	-48.132	1.00	32.78	A16S
ATOM	32157	O1P	C	A1524	190.139	100.424	-49.369	1.00	49.77	A16S
ATOM	32158	O2P	C	A1524	189.856	100.407	-46.793	1.00	49.77	A16S
ATOM	32159	O5*	C	A1524	188.033	99.615	-48.362	1.00	32.78	A16S
ATOM	32160	C5*	C	A1524	187.585	98.794	-49.430	1.00	32.78	A16S
ATOM	32161	C4*	C	A1524	186.138	98.450	-49.260	1.00	32.78	A16S
ATOM	32162	O4*	C	A1524	185.969	97.444	-48.236	1.00	32.78	A16S
ATOM	32163	C1*	C	A1524	184.705	97.613	-47.626	1.00	32.78	A16S
ATOM	32164	N1	C	A1524	184.887	97.749	-46.172	1.00	49.77	A16S
ATOM	32165	C6	C	A1524	186.095	98.088	-45.649	1.00	49.77	A16S
ATOM	32166	C2	C	A1524	183.797	97.527	-45.330	1.00	49.77	A16S
ATOM	32167	O2	C	A1524	182.707	97.224	-45.827	1.00	49.77	A16S
ATOM	32168	N3	C	A1524	183.954	97.652	-44.000	1.00	49.77	A16S
ATOM	32169	C4	C	A1524	185.138	97.989	-43.503	1.00	49.77	A16S
ATOM	32170	N4	C	A1524	185.254	98.113	-42.179	1.00	49.77	A16S
ATOM	32171	C5	C	A1524	186.261	98.218	-44.335	1.00	49.77	A16S
ATOM	32172	C2*	C	A1524	184.028	98.824	-48.272	1.00	32.78	A16S
ATOM	32173	O2*	C	A1524	183.163	98.355	-49.287	1.00	32.78	A16S
ATOM	32174	C3*	C	A1524	185.219	99.582	-48.846	1.00	32.78	A16S
ATOM	32175	O3*	C	A1524	184.881	100.447	-49.936	1.00	32.78	A16S
ATOM	32176	P	G	A1525	184.894	102.050	-49.708	1.00	42.05	A16S
ATOM	32177	O1P	G	A1525	184.716	102.693	-51.039	1.00	48.43	A16S
ATOM	32178	O2P	G	A1525	186.055	102.443	-48.850	1.00	48.43	A16S
ATOM	32179	O5*	G	A1525	183.543	102.289	-48.911	1.00	42.05	A16S

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ATOM	32180	C5*	G	A1525	182.317	102.024	-49.577	1.00	42.05	A16S
ATOM	32181	C4*	G	A1525	181.183	101.933	-48.608	1.00	42.05	A16S
ATOM	32182	O4*	G	A1525	181.300	100.758	-47.772	1.00	42.05	A16S
ATOM	32183	C1*	G	A1525	180.622	100.996	-46.556	1.00	42.05	A16S
ATOM	32184	N9	G	A1525	181.579	100.890	-45.467	1.00	48.43	A16S
ATOM	32185	C4	G	A1525	181.299	100.516	-44.181	1.00	48.43	A16S
ATOM	32186	N3	G	A1525	180.099	100.108	-43.719	1.00	48.43	A16S
ATOM	32187	C2	G	A1525	180.143	99.810	-42.431	1.00	48.43	A16S
ATOM	32188	N2	G	A1525	179.044	99.320	-41.814	1.00	48.43	A16S
ATOM	32189	N1	G	A1525	181.270	99.956	-41.653	1.00	48.43	A16S
ATOM	32190	C6	G	A1525	182.504	100.403	-42.112	1.00	48.43	A16S
ATOM	32191	O6	G	A1525	183.440	100.540	-41.326	1.00	48.43	A16S
ATOM	32192	C5	G	A1525	182.480	100.665	-43.495	1.00	48.43	A16S
ATOM	32193	N7	G	A1525	183.492	101.080	-44.343	1.00	48.43	A16S
ATOM	32194	C8	G	A1525	182.912	101.194	-45.504	1.00	48.43	A16S
ATOM	32195	C2*	G	A1525	180.068	102.423	-46.607	1.00	42.05	A16S
ATOM	32196	O2*	G	A1525	178.710	102.390	-47.038	1.00	42.05	A16S
ATOM	32197	C3*	G	A1525	180.995	103.067	-47.627	1.00	42.05	A16S
ATOM	32198	O3*	G	A1525	180.414	104.193	-48.254	1.00	42.05	A16S
ATOM	32199	P	G	A1526	180.633	105.653	-47.617	1.00	39.45	A16S
ATOM	32200	O1P	G	A1526	179.960	106.574	-48.582	1.00	49.41	A16S
ATOM	32201	O2P	G	A1526	182.066	105.876	-47.263	1.00	49.41	A16S
ATOM	32202	O5*	G	A1526	179.786	105.577	-46.271	1.00	39.45	A16S
ATOM	32203	C5*	G	A1526	178.395	105.264	-46.327	1.00	39.45	A16S
ATOM	32204	C4*	G	A1526	177.862	104.992	-44.952	1.00	39.45	A16S
ATOM	32205	O4*	G	A1526	178.544	103.854	-44.384	1.00	39.45	A16S
ATOM	32206	C1*	G	A1526	178.579	103.977	-42.974	1.00	39.45	A16S
ATOM	32207	N9	G	A1526	179.967	103.913	-42.536	1.00	49.41	A16S
ATOM	32208	C4	G	A1526	180.429	103.824	-41.241	1.00	49.41	A16S
ATOM	32209	N3	G	A1526	179.676	103.775	-40.128	1.00	49.41	A16S
ATOM	32210	C2	G	A1526	180.414	103.716	-39.039	1.00	49.41	A16S
ATOM	32211	N2	G	A1526	179.838	103.674	-37.843	1.00	49.41	A16S
ATOM	32212	N1	G	A1526	181.774	103.695	-39.041	1.00	49.41	A16S
ATOM	32213	C6	G	A1526	182.569	103.735	-40.175	1.00	49.41	A16S
ATOM	32214	O6	G	A1526	183.801	103.704	-40.070	1.00	49.41	A16S
ATOM	32215	C5	G	A1526	181.796	103.810	-41.345	1.00	49.41	A16S
ATOM	32216	N7	G	A1526	182.190	103.883	-42.669	1.00	49.41	A16S
ATOM	32217	C8	G	A1526	181.074	103.938	-43.338	1.00	49.41	A16S
ATOM	32218	C2*	G	A1526	177.908	105.302	-42.617	1.00	39.45	A16S
ATOM	32219	O2*	G	A1526	176.544	105.058	-42.340	1.00	39.45	A16S
ATOM	32220	C3*	G	A1526	178.038	106.078	-43.912	1.00	39.45	A16S
ATOM	32221	O3*	G	A1526	177.004	107.038	-43.986	1.00	39.45	A16S
ATOM	32222	P	C	A1527	177.219	108.483	-43.316	1.00	41.76	A16S
ATOM	32223	O1P	C	A1527	176.049	109.295	-43.734	1.00	38.68	A16S
ATOM	32224	O2P	C	A1527	178.598	108.969	-43.608	1.00	38.68	A16S
ATOM	32225	O5*	C	A1527	177.153	108.199	-41.755	1.00	41.76	A16S
ATOM	32226	C5*	C	A1527	175.899	107.970	-41.111	1.00	41.76	A16S
ATOM	32227	C4*	C	A1527	176.079	108.051	-39.626	1.00	41.76	A16S
ATOM	32228	O4*	C	A1527	176.904	106.946	-39.201	1.00	41.76	A16S
ATOM	32229	C1*	C	A1527	177.792	107.379	-38.192	1.00	41.76	A16S
ATOM	32230	N1	C	A1527	179.167	107.247	-38.691	1.00	38.68	A16S
ATOM	32231	C6	C	A1527	179.449	107.271	-40.033	1.00	38.68	A16S
ATOM	32232	C2	C	A1527	180.185	107.077	-37.761	1.00	38.68	A16S
ATOM	32233	O2	C	A1527	179.900	107.112	-36.554	1.00	38.68	A16S
ATOM	32234	N3	C	A1527	181.451	106.888	-38.196	1.00	38.68	A16S
ATOM	32235	C4	C	A1527	181.711	106.885	-39.501	1.00	38.68	A16S
ATOM	32236	N4	C	A1527	182.958	106.676	-39.874	1.00	38.68	A16S
ATOM	32237	C5	C	A1527	180.694	107.093	-40.475	1.00	38.68	A16S
ATOM	32238	C2*	C	A1527	177.443	108.820	-37.850	1.00	41.76	A16S
ATOM	32239	O2*	C	A1527	176.510	108.782	-36.790	1.00	41.76	A16S
ATOM	32240	C3*	C	A1527	176.815	109.290	-39.147	1.00	41.76	A16S
ATOM	32241	O3*	C	A1527	175.916	110.350	-38.922	1.00	41.76	A16S
ATOM	32242	P	U	A1528	176.476	111.841	-38.802	1.00	42.83	A16S
ATOM	32243	O1P	U	A1528	175.257	112.686	-38.767	1.00	50.81	A16S
ATOM	32244	O2P	U	A1528	177.497	112.065	-39.864	1.00	50.81	A16S
ATOM	32245	O5*	U	A1528	177.200	111.872	-37.381	1.00	42.83	A16S
ATOM	32246	C5*	U	A1528	176.471	111.580	-36.170	1.00	42.83	A16S
ATOM	32247	C4*	U	A1528	177.324	111.872	-34.954	1.00	42.83	A16S
ATOM	32248	O4*	U	A1528	178.506	111.027	-34.961	1.00	42.83	A16S
ATOM	32249	C1*	U	A1528	179.691	111.813	-34.920	1.00	42.83	A16S
ATOM	32250	N1	U	A1528	180.638	111.227	-35.884	1.00	50.81	A16S
ATOM	32251	C6	U	A1528	180.378	111.267	-37.238	1.00	50.81	A16S
ATOM	32252	C2	U	A1528	181.794	110.619	-35.401	1.00	50.81	A16S
ATOM	32253	O2	U	A1528	182.079	110.547	-34.202	1.00	50.81	A16S
ATOM	32254	N3	U	A1528	182.604	110.084	-36.373	1.00	50.81	A16S
ATOM	32255	C4	U	A1528	182.378	110.078	-37.734	1.00	50.81	A16S
ATOM	32256	O4	U	A1528	183.132	109.439	-38.465	1.00	50.81	A16S

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ATOM	32257	C5	U	A1528	181.182	110.728	-38.144	1.00	50.81	A16S
ATOM	32258	C2*	U	A1528	179.315	113.254	-35.270	1.00	42.83	A16S
ATOM	32259	O2*	U	A1528	180.127	114.125	-34.524	1.00	42.83	A16S
ATOM	32260	C3*	U	A1528	177.848	113.290	-34.874	1.00	42.83	A16S
ATOM	32261	O3*	U	A1528	177.096	114.354	-34.274	1.00	42.83	A16S
ATOM	32262	P	G	A1529	177.234	114.678	-32.701	1.00	44.79	A16S
ATOM	32263	O1P	G	A1529	175.985	115.394	-32.346	1.00	39.43	A16S
ATOM	32264	O2P	G	A1529	178.547	115.323	-32.418	1.00	39.43	A16S
ATOM	32265	O5*	G	A1529	177.194	113.257	-31.988	1.00	44.79	A16S
ATOM	32266	C5*	G	A1529	177.186	113.200	-30.571	1.00	44.79	A16S
ATOM	32267	C4*	G	A1529	178.236	112.252	-30.079	1.00	44.79	A16S
ATOM	32268	O4*	G	A1529	177.624	110.982	-29.748	1.00	44.79	A16S
ATOM	32269	C1*	G	A1529	178.370	109.949	-30.332	1.00	44.79	A16S
ATOM	32270	N9	G	A1529	177.483	108.814	-30.575	1.00	39.43	A16S
ATOM	32271	C4	G	A1529	176.408	108.745	-31.431	1.00	39.43	A16S
ATOM	32272	N3	G	A1529	175.963	109.732	-32.226	1.00	39.43	A16S
ATOM	32273	C2	G	A1529	174.926	109.349	-32.948	1.00	39.43	A16S
ATOM	32274	N2	G	A1529	174.358	110.208	-33.794	1.00	39.43	A16S
ATOM	32275	N1	G	A1529	174.370	108.102	-32.893	1.00	39.43	A16S
ATOM	32276	C6	G	A1529	174.810	107.072	-32.075	1.00	39.43	A16S
ATOM	32277	O6	G	A1529	174.233	105.978	-32.090	1.00	39.43	A16S
ATOM	32278	C5	G	A1529	175.919	107.463	-31.300	1.00	39.43	A16S
ATOM	32279	N7	G	A1529	176.658	106.745	-30.377	1.00	39.43	A16S
ATOM	32280	C8	G	A1529	177.572	107.582	-29.973	1.00	39.43	A16S
ATOM	32281	C2*	G	A1529	179.075	110.571	-31.539	1.00	44.79	A16S
ATOM	32282	O2*	G	A1529	180.225	109.809	-31.857	1.00	44.79	A16S
ATOM	32283	C3*	G	A1529	179.409	111.977	-31.018	1.00	44.79	A16S
ATOM	32284	O3*	G	A1529	180.646	111.932	-30.282	1.00	44.79	A16S
ATOM	32285	P	G	A1530	181.353	113.296	-29.785	1.00	54.23	A16S
ATOM	32286	O1P	G	A1530	182.705	112.917	-29.289	1.00	75.81	A16S
ATOM	32287	O2P	G	A1530	180.431	114.037	-28.891	1.00	75.81	A16S
ATOM	32288	O5*	G	A1530	181.511	114.184	-31.092	1.00	54.23	A16S
ATOM	32289	C5*	G	A1530	182.085	113.636	-32.276	1.00	54.23	A16S
ATOM	32290	C4*	G	A1530	183.597	113.652	-32.192	1.00	54.23	A16S
ATOM	32291	O4*	G	A1530	184.073	112.625	-33.090	1.00	54.23	A16S
ATOM	32292	C1*	G	A1530	185.298	113.029	-33.657	1.00	54.23	A16S
ATOM	32293	N9	G	A1530	185.173	113.038	-35.108	1.00	75.81	A16S
ATOM	32294	C4	G	A1530	186.215	112.922	-35.970	1.00	75.81	A16S
ATOM	32295	N3	G	A1530	187.506	112.797	-35.615	1.00	75.81	A16S
ATOM	32296	C2	G	A1530	188.292	112.706	-36.656	1.00	75.81	A16S
ATOM	32297	N2	G	A1530	189.611	112.582	-36.469	1.00	75.81	A16S
ATOM	32298	N1	G	A1530	187.846	112.732	-37.955	1.00	75.81	A16S
ATOM	32299	C6	G	A1530	186.514	112.857	-38.346	1.00	75.81	A16S
ATOM	32300	O6	G	A1530	186.217	112.868	-39.551	1.00	75.81	A16S
ATOM	32301	C5	G	A1530	185.659	112.959	-37.227	1.00	75.81	A16S
ATOM	32302	N7	G	A1530	184.279	113.101	-37.153	1.00	75.81	A16S
ATOM	32303	C8	G	A1530	184.035	113.148	-35.874	1.00	75.81	A16S
ATOM	32304	C2*	G	A1530	185.704	114.370	-33.055	1.00	54.23	A16S
ATOM	32305	O2*	G	A1530	186.593	114.067	-32.002	1.00	54.23	A16S
ATOM	32306	C3*	G	A1530	184.365	114.928	-32.576	1.00	54.23	A16S
ATOM	32307	O3*	G	A1530	184.565	115.828	-31.461	1.00	54.23	A16S
ATOM	32308	P	A	A1531	185.012	117.361	-31.719	1.00	96.13	A16S
ATOM	32309	O1P	A	A1531	184.260	118.202	-30.757	1.00	88.62	A16S
ATOM	32310	O2P	A	A1531	184.948	117.667	-33.172	1.00	88.62	A16S
ATOM	32311	O5*	A	A1531	186.543	117.416	-31.285	1.00	96.13	A16S
ATOM	32312	C5*	A	A1531	186.952	117.370	-29.894	1.00	96.13	A16S
ATOM	32313	C4*	A	A1531	188.470	117.430	-29.794	1.00	96.13	A16S
ATOM	32314	O4*	A	A1531	189.023	116.307	-30.539	1.00	96.13	A16S
ATOM	32315	C1*	A	A1531	190.115	116.739	-31.347	1.00	96.13	A16S
ATOM	32316	N9	A	A1531	189.682	116.719	-32.758	1.00	88.62	A16S
ATOM	32317	C4	A	A1531	190.479	116.550	-33.868	1.00	88.62	A16S
ATOM	32318	N3	A	A1531	191.819	116.393	-33.900	1.00	88.62	A16S
ATOM	32319	C2	A	A1531	192.240	116.236	-35.157	1.00	88.62	A16S
ATOM	32320	N1	A	A1531	191.523	116.209	-36.302	1.00	88.62	A16S
ATOM	32321	C6	A	A1531	190.175	116.362	-36.230	1.00	88.62	A16S
ATOM	32322	N6	A	A1531	189.452	116.303	-37.357	1.00	88.62	A16S
ATOM	32323	C5	A	A1531	189.611	116.558	-34.960	1.00	88.62	A16S
ATOM	32324	N7	A	A1531	188.301	116.759	-34.552	1.00	88.62	A16S
ATOM	32325	C8	A	A1531	188.392	116.852	-33.247	1.00	88.62	A16S
ATOM	32326	C2*	A	A1531	190.488	118.141	-30.867	1.00	96.13	A16S
ATOM	32327	O2*	A	A1531	191.459	118.061	-29.833	1.00	96.13	A16S
ATOM	32328	C3*	A	A1531	189.128	118.666	-30.410	1.00	96.13	A16S
ATOM	32329	O3*	A	A1531	189.230	119.781	-29.522	1.00	96.13	A16S
ATOM	32330	P	U	A1532	189.322	121.272	-30.127	1.00	119.39	A16S
ATOM	32331	O1P	U	A1532	189.671	122.193	-29.013	1.00	116.07	A16S
ATOM	32332	O2P	U	A1532	188.103	121.531	-30.937	1.00	116.07	A16S
ATOM	32333	O5*	U	A1532	190.549	121.201	-31.141	1.00	119.39	A16S

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ATOM	32334	C5*	U	A1532	191.915	121.257	-30.683	1.00119.39	A16S
ATOM	32335	C4*	U	A1532	192.841	121.400	-31.867	1.00119.39	A16S
ATOM	32336	O4*	U	A1532	192.686	120.219	-32.706	1.00119.39	A16S
ATOM	32337	C1*	U	A1532	192.715	120.590	-34.080	1.00119.39	A16S
ATOM	32338	N1	U	A1532	191.375	120.378	-34.659	1.00116.07	A16S
ATOM	32339	C6	U	A1532	190.227	120.603	-33.918	1.00116.07	A16S
ATOM	32340	C2	U	A1532	191.294	119.991	-35.989	1.00116.07	A16S
ATOM	32341	O2	U	A1532	192.273	119.718	-36.668	1.00116.07	A16S
ATOM	32342	N3	U	A1532	190.020	119.927	-36.491	1.00116.07	A16S
ATOM	32343	C4	U	A1532	188.846	120.183	-35.814	1.00116.07	A16S
ATOM	32344	O4	U	A1532	187.789	120.193	-36.436	1.00116.07	A16S
ATOM	32345	C5	U	A1532	189.006	120.522	-34.437	1.00116.07	A16S
ATOM	32346	C2*	U	A1532	193.049	122.080	-34.142	1.00119.39	A16S
ATOM	32347	O2*	U	A1532	194.435	122.281	-34.318	1.00119.39	A16S
ATOM	32348	C3*	U	A1532	192.512	122.562	-32.801	1.00119.39	A16S
ATOM	32349	O3*	U	A1532	193.015	123.840	-32.410	1.00119.39	A16S
ATOM	32350	P	C	A1533	192.214	125.168	-32.852	1.00172.10	A16S
ATOM	32351	O1P	C	A1533	190.787	124.980	-32.480	1.00197.98	A16S
ATOM	32352	O2P	C	A1533	192.949	126.348	-32.343	1.00197.98	A16S
ATOM	32353	O5*	C	A1533	192.333	125.163	-34.444	1.00172.10	A16S
ATOM	32354	C5*	C	A1533	191.164	125.100	-35.302	1.00172.10	A16S
ATOM	32355	C4*	C	A1533	191.549	125.448	-36.728	1.00172.10	A16S
ATOM	32356	O4*	C	A1533	192.118	126.786	-36.725	1.00172.10	A16S
ATOM	32357	C1*	C	A1533	193.332	126.802	-37.457	1.00172.10	A16S
ATOM	32358	N1	C	A1533	194.427	127.035	-36.476	1.00197.98	A16S
ATOM	32359	C6	C	A1533	194.188	127.807	-35.370	1.00197.98	A16S
ATOM	32360	C2	C	A1533	195.713	126.453	-36.669	1.00197.98	A16S
ATOM	32361	O2	C	A1533	195.941	125.771	-37.688	1.00197.98	A16S
ATOM	32362	N3	C	A1533	196.670	126.659	-35.732	1.00197.98	A16S
ATOM	32363	C4	C	A1533	196.406	127.403	-34.652	1.00197.98	A16S
ATOM	32364	N4	C	A1533	197.377	127.563	-33.754	1.00197.98	A16S
ATOM	32365	C5	C	A1533	195.135	128.012	-34.445	1.00197.98	A16S
ATOM	32366	C2*	C	A1533	193.390	125.490	-38.250	1.00172.10	A16S
ATOM	32367	O2*	C	A1533	192.796	125.658	-39.524	1.00172.10	A16S
ATOM	32368	C3*	C	A1533	192.615	124.545	-37.340	1.00172.10	A16S
ATOM	32369	O3*	C	A1533	192.047	123.441	-38.051	1.00172.10	A16S
ATOM	32370	P	A	A1534	192.946	122.146	-38.369	0.00102.80	A16S
ATOM	32371	O1P	A	A1534	192.060	121.135	-39.001	0.00102.80	A16S
ATOM	32372	O2P	A	A1534	193.708	121.792	-37.144	0.00102.80	A16S
ATOM	32373	O5*	A	A1534	193.993	122.647	-39.460	0.00102.80	A16S
ATOM	32374	C5*	A	A1534	193.568	123.055	-40.776	0.00102.80	A16S
ATOM	32375	C4*	A	A1534	194.769	123.246	-41.671	0.00102.80	A16S
ATOM	32376	O4*	A	A1534	195.652	124.234	-41.078	0.00102.80	A16S
ATOM	32377	C1*	A	A1534	197.004	123.883	-41.330	0.00102.80	A16S
ATOM	32378	N9	A	A1534	197.678	123.719	-40.041	0.00102.80	A16S
ATOM	32379	C4	A	A1534	198.852	124.318	-39.649	0.00102.80	A16S
ATOM	32380	N3	A	A1534	199.614	125.167	-40.361	0.00102.80	A16S
ATOM	32381	C2	A	A1534	200.678	125.546	-39.656	0.00102.80	A16S
ATOM	32382	N1	A	A1534	201.041	125.199	-38.415	0.00102.80	A16S
ATOM	32383	C6	A	A1534	200.254	124.344	-37.727	0.00102.80	A16S
ATOM	32384	N6	A	A1534	200.615	123.998	-36.489	0.00102.80	A16S
ATOM	32385	C5	A	A1534	199.093	123.869	-38.362	0.00102.80	A16S
ATOM	32386	N7	A	A1534	198.092	123.001	-37.949	0.00102.80	A16S
ATOM	32387	C8	A	A1534	197.280	122.945	-38.976	0.00102.80	A16S
ATOM	32388	C2*	A	A1534	197.009	122.614	-42.188	0.00102.80	A16S
ATOM	32389	O2*	A	A1534	197.123	122.981	-43.549	0.00102.80	A16S
ATOM	32390	C3*	A	A1534	195.649	122.019	-41.850	0.00102.80	A16S
ATOM	32391	O3*	A	A1534	195.122	120.932	-42.621	0.00102.80	A16S
TER	32391	A		A1534					A16S
ATOM	32392	O5*	UNK	X 1	209.880	110.895	-34.694	1.00111.08	XMES
ATOM	32393	C5*	UNK	X 1	208.895	111.231	-35.685	1.00111.08	XMES
ATOM	32394	C4*	UNK	X 1	208.063	110.072	-36.207	1.00111.08	XMES
ATOM	32395	O4*	UNK	X 1	208.886	109.211	-37.040	1.00111.08	XMES
ATOM	32396	C1*	UNK	X 1	208.461	107.858	-36.902	1.00111.08	XMES
ATOM	32397	N1	UNK	X 1	209.584	107.041	-36.382	1.00 82.31	XMES
ATOM	32398	C6	UNK	X 1	210.764	107.622	-35.997	1.00 82.31	XMES
ATOM	32399	C2	UNK	X 1	209.416	105.639	-36.272	1.00 82.31	XMES
ATOM	32400	O2	UNK	X 1	208.342	105.120	-36.641	1.00 82.31	XMES
ATOM	32401	N3	UNK	X 1	210.428	104.891	-35.767	1.00 82.31	XMES
ATOM	32402	C4	UNK	X 1	211.569	105.476	-35.384	1.00 82.31	XMES
ATOM	32403	N4	UNK	X 1	212.540	104.694	-34.882	1.00 82.31	XMES
ATOM	32404	C5	UNK	X 1	211.770	106.888	-35.497	1.00 82.31	XMES
ATOM	32405	C2*	UNK	X 1	207.261	107.841	-35.952	1.00111.08	XMES
ATOM	32406	O2*	UNK	X 1	206.053	107.791	-36.688	1.00111.08	XMES
ATOM	32407	C3*	UNK	X 1	207.468	109.132	-35.165	1.00111.08	XMES
ATOM	32408	O3*	UNK	X 1	206.259	109.605	-34.573	1.00111.08	XMES
ATOM	32409	P	UNK	X 2	206.007	109.382	-32.997	1.00131.66	XMES

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ATOM	32410	O1P	UNK	X	2	204.642	109.878	-32.670	1.00	98.73	XMES
ATOM	32411	O2P	UNK	X	2	207.180	109.931	-32.269	1.00	98.73	XMES
ATOM	32412	O5*	UNK	X	2	206.033	107.799	-32.817	1.00131.66		XMES
ATOM	32413	C5*	UNK	X	2	205.190	106.943	-33.613	1.00131.66		XMES
ATOM	32414	C4*	UNK	X	2	205.577	105.495	-33.411	1.00131.66		XMES
ATOM	32415	O4*	UNK	X	2	206.937	105.292	-33.867	1.00131.66		XMES
ATOM	32416	C1*	UNK	X	2	207.584	104.348	-33.031	1.00131.66		XMES
ATOM	32417	N1	UNK	X	2	208.790	104.965	-32.455	1.00	98.73	XMES
ATOM	32418	C6	UNK	X	2	209.041	106.320	-32.567	1.00	98.73	XMES
ATOM	32419	C2	UNK	X	2	209.690	104.129	-31.810	1.00	98.73	XMES
ATOM	32420	O2	UNK	X	2	209.479	102.940	-31.632	1.00	98.73	XMES
ATOM	32421	N3	UNK	X	2	210.839	104.740	-31.367	1.00	98.73	XMES
ATOM	32422	C4	UNK	X	2	211.168	106.078	-31.477	1.00	98.73	XMES
ATOM	32423	O4	UNK	X	2	212.282	106.458	-31.105	1.00	98.73	XMES
ATOM	32424	C5	UNK	X	2	210.167	106.889	-32.111	1.00	98.73	XMES
ATOM	32425	C2*	UNK	X	2	206.578	103.863	-31.988	1.00131.66		XMES
ATOM	32426	O2*	UNK	X	2	206.024	102.633	-32.416	1.00131.66		XMES
ATOM	32427	C3*	UNK	X	2	205.579	105.013	-31.968	1.00131.66		XMES
ATOM	32428	O3*	UNK	X	2	204.288	104.583	-31.565	1.00131.66		XMES
ATOM	32429	P	UNK	X	3	203.596	105.252	-30.281	1.00114.94		XMES
ATOM	32430	O1P	UNK	X	3	202.383	104.427	-29.961	1.00	86.68	XMES
ATOM	32431	O2P	UNK	X	3	203.451	106.713	-30.554	1.00	86.68	XMES
ATOM	32432	O5*	UNK	X	3	204.685	105.094	-29.126	1.00114.94		XMES
ATOM	32433	C5*	UNK	X	3	205.144	103.798	-28.700	1.00114.94		XMES
ATOM	32434	C4*	UNK	X	3	206.303	103.947	-27.742	1.00114.94		XMES
ATOM	32435	O4*	UNK	X	3	207.439	104.502	-28.447	1.00114.94		XMES
ATOM	32436	C1*	UNK	X	3	208.164	105.351	-27.583	1.00114.94		XMES
ATOM	32437	N1	UNK	X	3	208.351	106.649	-28.252	1.00	86.68	XMES
ATOM	32438	C6	UNK	X	3	207.301	107.310	-28.854	1.00	86.68	XMES
ATOM	32439	C2	UNK	X	3	209.641	107.184	-28.282	1.00	86.68	XMES
ATOM	32440	O2	UNK	X	3	210.596	106.657	-27.737	1.00	86.68	XMES
ATOM	32441	N3	UNK	X	3	209.769	108.363	-28.977	1.00	86.68	XMES
ATOM	32442	C4	UNK	X	3	208.768	109.057	-29.629	1.00	86.68	XMES
ATOM	32443	O4	UNK	X	3	209.061	110.058	-30.296	1.00	86.68	XMES
ATOM	32444	C5	UNK	X	3	207.459	108.461	-29.523	1.00	86.68	XMES
ATOM	32445	C2*	UNK	X	3	207.467	105.367	-26.218	1.00114.94		XMES
ATOM	32446	O2*	UNK	X	3	208.149	104.475	-25.359	1.00114.94		XMES
ATOM	32447	C3*	UNK	X	3	206.060	104.882	-26.565	1.00114.94		XMES
ATOM	32448	O3*	UNK	X	3	205.455	104.162	-25.480	1.00114.94		XMES
ATOM	32449	P	U	X	4	204.024	104.625	-24.895	1.00	57.72	XMES
ATOM	32450	O1P	U	X	4	203.122	104.794	-26.061	1.00	49.54	XMES
ATOM	32451	O2P	U	X	4	204.258	105.773	-23.981	1.00	49.54	XMES
ATOM	32452	O5*	U	X	4	203.531	103.374	-24.030	1.00	57.72	XMES
ATOM	32453	C5*	U	X	4	203.027	102.181	-24.669	1.00	57.72	XMES
ATOM	32454	C4*	U	X	4	203.299	100.960	-23.815	1.00	57.72	XMES
ATOM	32455	O4*	U	X	4	204.722	100.673	-23.776	1.00	57.72	XMES
ATOM	32456	C1*	U	X	4	205.078	100.188	-22.485	1.00	57.72	XMES
ATOM	32457	N1	U	X	4	206.024	101.134	-21.873	1.00	49.54	XMES
ATOM	32458	C6	U	X	4	206.215	102.391	-22.401	1.00	49.54	XMES
ATOM	32459	C2	U	X	4	206.711	100.726	-20.735	1.00	49.54	XMES
ATOM	32460	O2	U	X	4	206.587	99.612	-20.236	1.00	49.54	XMES
ATOM	32461	N3	U	X	4	207.548	101.672	-20.201	1.00	49.54	XMES
ATOM	32462	C4	U	X	4	207.769	102.949	-20.674	1.00	49.54	XMES
ATOM	32463	O4	U	X	4	208.511	103.707	-20.046	1.00	49.54	XMES
ATOM	32464	C5	U	X	4	207.040	103.284	-21.857	1.00	49.54	XMES
ATOM	32465	C2*	U	X	4	203.801	100.083	-21.654	1.00	57.72	XMES
ATOM	32466	O2*	U	X	4	203.328	98.751	-21.668	1.00	57.72	XMES
ATOM	32467	C3*	U	X	4	202.898	101.088	-22.357	1.00	57.72	XMES
ATOM	32468	O3*	U	X	4	201.528	100.808	-22.173	1.00	57.72	XMES
ATOM	32469	P	C	X	5	200.685	101.671	-21.114	1.00	54.68	XMES
ATOM	32470	O1P	C	X	5	199.262	101.212	-21.262	1.00	43.82	XMES
ATOM	32471	O2P	C	X	5	201.037	103.113	-21.333	1.00	43.82	XMES
ATOM	32472	O5*	C	X	5	201.237	101.181	-19.697	1.00	54.68	XMES
ATOM	32473	C5*	C	X	5	201.071	99.805	-19.301	1.00	54.68	XMES
ATOM	32474	C4*	C	X	5	201.936	99.477	-18.112	1.00	54.68	XMES
ATOM	32475	O4*	C	X	5	203.310	99.839	-18.399	1.00	54.68	XMES
ATOM	32476	C1*	C	X	5	203.959	100.214	-17.196	1.00	54.68	XMES
ATOM	32477	N1	C	X	5	204.579	101.546	-17.358	1.00	43.82	XMES
ATOM	32478	C6	C	X	5	204.308	102.332	-18.441	1.00	43.82	XMES
ATOM	32479	C2	C	X	5	205.476	101.990	-16.377	1.00	43.82	XMES
ATOM	32480	O2	C	X	5	205.683	101.269	-15.371	1.00	43.82	XMES
ATOM	32481	N3	C	X	5	206.092	103.186	-16.537	1.00	43.82	XMES
ATOM	32482	C4	C	X	5	205.830	103.929	-17.604	1.00	43.82	XMES
ATOM	32483	N4	C	X	5	206.463	105.084	-17.721	1.00	43.82	XMES
ATOM	32484	C5	C	X	5	204.907	103.519	-18.600	1.00	43.82	XMES
ATOM	32485	C2*	C	X	5	202.937	100.140	-16.063	1.00	54.68	XMES
ATOM	32486	O2*	C	X	5	203.085	98.918	-15.365	1.00	54.68	XMES

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ATOM	32487	C3*	C	X	5	201.623	100.216	-16.825	1.00	54.68	XMES
ATOM	32488	O3*	C	X	5	200.589	99.589	-16.098	1.00	54.68	XMES
ATOM	32489	P	U	X	6	199.634	100.477	-15.166	1.00	72.84	XMES
ATOM	32490	O1P	U	X	6	198.734	99.490	-14.524	1.00	47.18	XMES
ATOM	32491	O2P	U	X	6	199.061	101.599	-15.963	1.00	47.18	XMES
ATOM	32492	O5*	U	X	6	200.596	101.080	-14.049	1.00	72.84	XMES
ATOM	32493	C5*	U	X	6	201.015	100.273	-12.930	1.00	72.84	XMES
ATOM	32494	C4*	U	X	6	201.939	101.055	-12.026	1.00	72.84	XMES
ATOM	32495	O4*	U	X	6	203.074	101.530	-12.793	1.00	72.84	XMES
ATOM	32496	C1*	U	X	6	203.491	102.792	-12.297	1.00	72.84	XMES
ATOM	32497	N1	U	X	6	203.466	103.766	-13.402	1.00	47.18	XMES
ATOM	32498	C6	U	X	6	202.652	103.591	-14.500	1.00	47.18	XMES
ATOM	32499	C2	U	X	6	204.311	104.868	-13.310	1.00	47.18	XMES
ATOM	32500	O2	U	X	6	205.028	105.082	-12.345	1.00	47.18	XMES
ATOM	32501	N3	U	X	6	204.284	105.715	-14.389	1.00	47.18	XMES
ATOM	32502	C4	U	X	6	203.510	105.588	-15.521	1.00	47.18	XMES
ATOM	32503	O4	U	X	6	203.619	106.424	-16.422	1.00	47.18	XMES
ATOM	32504	C5	U	X	6	202.645	104.438	-15.533	1.00	47.18	XMES
ATOM	32505	C2*	U	X	6	202.603	103.148	-11.103	1.00	72.84	XMES
ATOM	32506	O2*	U	X	6	203.277	102.721	-9.937	1.00	72.84	XMES
ATOM	32507	C3*	U	X	6	201.363	102.311	-11.392	1.00	72.84	XMES
ATOM	32508	O3*	U	X	6	200.390	102.115	-10.358	1.00	72.84	XMES
TER	32508		U	X	6						XMES
ATOM	32509	CB	VAL	B	7	150.464	170.708	-20.450	1.00	66.29	BS2
ATOM	32510	CG1	VAL	B	7	151.802	171.034	-19.781	1.00	66.29	BS2
ATOM	32511	CG2	VAL	B	7	149.341	171.478	-19.751	1.00	66.29	BS2
ATOM	32512	C	VAL	B	7	149.602	170.115	-22.775	1.00	150.23	BS2
ATOM	32513	O	VAL	B	7	148.516	169.753	-22.311	1.00	150.23	BS2
ATOM	32514	N	VAL	B	7	150.176	172.510	-22.201	1.00	150.23	BS2
ATOM	32515	CA	VAL	B	7	150.513	171.073	-21.983	1.00	150.23	BS2
ATOM	32516	N	LYS	B	8	150.052	169.724	-23.974	1.00	96.58	BS2
ATOM	32517	CA	LYS	B	8	149.321	168.793	-24.854	1.00	96.58	BS2
ATOM	32518	CB	LYS	B	8	147.826	169.172	-24.913	1.00	153.20	BS2
ATOM	32519	CG	LYS	B	8	147.514	170.677	-24.914	1.00	153.20	BS2
ATOM	32520	CD	LYS	B	8	148.146	171.393	-26.097	1.00	153.20	BS2
ATOM	32521	CE	LYS	B	8	147.757	172.856	-26.165	1.00	153.20	BS2
ATOM	32522	NZ	LYS	B	8	148.391	173.513	-27.345	1.00	153.20	BS2
ATOM	32523	C	LYS	B	8	149.906	168.697	-26.284	1.00	96.58	BS2
ATOM	32524	O	LYS	B	8	151.036	168.231	-26.470	1.00	96.58	BS2
ATOM	32525	N	GLU	B	9	149.107	169.116	-27.271	1.00	117.58	BS2
ATOM	32526	CA	GLU	B	9	149.451	169.146	-28.701	1.00	117.58	BS2
ATOM	32527	CB	GLU	B	9	150.951	169.446	-28.889	1.00	102.17	BS2
ATOM	32528	CG	GLU	B	9	151.306	170.146	-30.206	1.00	102.17	BS2
ATOM	32529	CD	GLU	B	9	151.508	169.178	-31.361	1.00	102.17	BS2
ATOM	32530	OE1	GLU	B	9	150.717	168.227	-31.483	1.00	102.17	BS2
ATOM	32531	OE2	GLU	B	9	152.455	169.369	-32.156	1.00	102.17	BS2
ATOM	32532	C	GLU	B	9	149.048	167.873	-29.455	1.00	117.58	BS2
ATOM	32533	O	GLU	B	9	149.228	166.767	-28.955	1.00	117.58	BS2
ATOM	32534	N	LEU	B	10	148.488	168.055	-30.656	1.00	73.38	BS2
ATOM	32535	CA	LEU	B	10	148.024	166.957	-31.535	1.00	73.38	BS2
ATOM	32536	CB	LEU	B	10	146.520	167.094	-31.804	1.00	124.57	BS2
ATOM	32537	CG	LEU	B	10	145.564	166.072	-31.184	1.00	124.57	BS2
ATOM	32538	CD1	LEU	B	10	144.138	166.501	-31.456	1.00	124.57	BS2
ATOM	32539	CD2	LEU	B	10	145.823	164.686	-31.755	1.00	124.57	BS2
ATOM	32540	C	LEU	B	10	148.755	166.877	-32.888	1.00	73.38	BS2
ATOM	32541	O	LEU	B	10	148.972	165.790	-33.422	1.00	73.38	BS2
ATOM	32542	N	LEU	B	11	149.088	168.035	-33.455	1.00	83.92	BS2
ATOM	32543	CA	LEU	B	11	149.823	168.091	-34.714	1.00	83.92	BS2
ATOM	32544	CB	LEU	B	11	149.756	169.483	-35.341	1.00	129.18	BS2
ATOM	32545	CG	LEU	B	11	148.508	169.883	-36.118	1.00	129.18	BS2
ATOM	32546	CD1	LEU	B	11	148.716	171.272	-36.710	1.00	129.18	BS2
ATOM	32547	CD2	LEU	B	11	148.245	168.869	-37.220	1.00	129.18	BS2
ATOM	32548	C	LEU	B	11	151.267	167.794	-34.365	1.00	83.92	BS2
ATOM	32549	O	LEU	B	11	152.175	168.567	-34.703	1.00	83.92	BS2
ATOM	32550	N	GLU	B	12	151.479	166.685	-33.662	1.00	92.14	BS2
ATOM	32551	CA	GLU	B	12	152.826	166.325	-33.282	1.00	92.14	BS2
ATOM	32552	CB	GLU	B	12	152.862	165.558	-31.966	1.00	127.41	BS2
ATOM	32553	CG	GLU	B	12	154.142	165.879	-31.234	1.00	127.41	BS2
ATOM	32554	CD	GLU	B	12	154.884	167.048	-31.898	1.00	127.41	BS2
ATOM	32555	OE1	GLU	B	12	155.624	166.816	-32.880	1.00	127.41	BS2
ATOM	32556	OE2	GLU	B	12	154.705	168.204	-31.457	1.00	127.41	BS2
ATOM	32557	C	GLU	B	12	153.525	165.534	-34.362	1.00	92.14	BS2
ATOM	32558	O	GLU	B	12	154.567	164.920	-34.132	1.00	92.14	BS2
ATOM	32559	N	ALA	B	13	152.937	165.556	-35.551	1.00	130.62	BS2
ATOM	32560	CA	ALA	B	13	153.532	164.890	-36.694	1.00	130.62	BS2
ATOM	32561	CB	ALA	B	13	152.587	164.951	-37.898	1.00	25.62	BS2
ATOM	32562	C	ALA	B	13	154.763	165.754	-36.929	1.00	130.62	BS2

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ATOM	32563	O	ALA	B	13	155.611	165.461	-37.772	1.00130.62	BS2
ATOM	32564	N	GLY	B	14	154.832	166.831	-36.150	1.00 78.20	BS2
ATOM	32565	CA	GLY	B	14	155.937	167.759	-36.227	1.00 78.20	BS2
ATOM	32566	C	GLY	B	14	157.252	167.061	-35.971	1.00 78.20	BS2
ATOM	32567	O	GLY	B	14	158.301	167.601	-36.317	1.00 78.20	BS2
ATOM	32568	N	VAL	B	15	157.207	165.872	-35.365	1.00120.44	BS2
ATOM	32569	CA	VAL	B	15	158.431	165.112	-35.087	1.00120.44	BS2
ATOM	32570	CB	VAL	B	15	159.135	165.592	-33.791	1.00 70.83	BS2
ATOM	32571	CG1	VAL	B	15	160.565	165.066	-33.776	1.00 70.83	BS2
ATOM	32572	CG2	VAL	B	15	159.100	167.107	-33.670	1.00 70.83	BS2
ATOM	32573	C	VAL	B	15	158.274	163.586	-34.947	1.00120.44	BS2
ATOM	32574	O	VAL	B	15	158.600	162.830	-35.862	1.00120.44	BS2
ATOM	32575	N	HIS	B	16	157.784	163.155	-33.786	1.00128.11	BS2
ATOM	32576	CA	HIS	B	16	157.609	161.741	-33.445	1.00128.11	BS2
ATOM	32577	CB	HIS	B	16	156.726	161.607	-32.208	1.00197.58	BS2
ATOM	32578	CG	HIS	B	16	157.411	162.016	-30.949	1.00197.58	BS2
ATOM	32579	CD2	HIS	B	16	157.825	161.294	-29.883	1.00197.58	BS2
ATOM	32580	ND1	HIS	B	16	157.807	163.314	-30.712	1.00197.58	BS2
ATOM	32581	CE1	HIS	B	16	158.437	163.373	-29.553	1.00197.58	BS2
ATOM	32582	NE2	HIS	B	16	158.463	162.161	-29.030	1.00197.58	BS2
ATOM	32583	C	HIS	B	16	157.129	160.734	-34.466	1.00128.11	BS2
ATOM	32584	O	HIS	B	16	157.837	160.416	-35.417	1.00128.11	BS2
ATOM	32585	N	PHE	B	17	155.920	160.229	-34.238	1.00111.18	BS2
ATOM	32586	CA	PHE	B	17	155.312	159.194	-35.067	1.00111.18	BS2
ATOM	32587	CB	PHE	B	17	154.478	159.779	-36.237	1.00 83.31	BS2
ATOM	32588	CG	PHE	B	17	155.281	160.447	-37.340	1.00 83.31	BS2
ATOM	32589	CD1	PHE	B	17	156.504	159.929	-37.784	1.00 83.31	BS2
ATOM	32590	CD2	PHE	B	17	154.764	161.562	-37.991	1.00 83.31	BS2
ATOM	32591	CE1	PHE	B	17	157.193	160.507	-38.855	1.00 83.31	BS2
ATOM	32592	CE2	PHE	B	17	155.441	162.147	-39.060	1.00 83.31	BS2
ATOM	32593	CZ	PHE	B	17	156.657	161.618	-39.493	1.00 83.31	BS2
ATOM	32594	C	PHE	B	17	156.357	158.203	-35.571	1.00111.18	BS2
ATOM	32595	O	PHE	B	17	157.470	158.138	-35.037	1.00111.18	BS2
ATOM	32596	N	GLY	B	18	155.985	157.428	-36.586	1.00 86.00	BS2
ATOM	32597	CA	GLY	B	18	156.875	156.435	-37.166	1.00 86.00	BS2
ATOM	32598	C	GLY	B	18	158.367	156.456	-36.855	1.00 86.00	BS2
ATOM	32599	O	GLY	B	18	159.013	157.516	-36.813	1.00 86.00	BS2
ATOM	32600	N	HIS	B	19	158.901	155.252	-36.635	1.00 93.11	BS2
ATOM	32601	CA	HIS	B	19	160.315	155.036	-36.361	1.00 93.11	BS2
ATOM	32602	CB	HIS	B	19	160.678	155.485	-34.949	1.00150.42	BS2
ATOM	32603	CG	HIS	B	19	162.154	155.588	-34.724	1.00150.42	BS2
ATOM	32604	CD2	HIS	B	19	162.981	154.901	-33.903	1.00150.42	BS2
ATOM	32605	ND1	HIS	B	19	162.953	156.471	-35.417	1.00150.42	BS2
ATOM	32606	CE1	HIS	B	19	164.209	156.324	-35.031	1.00150.42	BS2
ATOM	32607	NE2	HIS	B	19	164.252	155.377	-34.112	1.00150.42	BS2
ATOM	32608	C	HIS	B	19	160.656	153.552	-36.540	1.00 93.11	BS2
ATOM	32609	O	HIS	B	19	159.755	152.717	-36.624	1.00 93.11	BS2
ATOM	32610	N	GLU	B	20	161.954	153.242	-36.604	1.00112.13	BS2
ATOM	32611	CA	GLU	B	20	162.480	151.875	-36.787	1.00112.13	BS2
ATOM	32612	CB	GLU	B	20	162.077	150.956	-35.625	1.00 74.68	BS2
ATOM	32613	CG	GLU	B	20	162.477	151.445	-34.230	1.00 74.68	BS2
ATOM	32614	CD	GLU	B	20	163.940	151.844	-34.122	1.00 74.68	BS2
ATOM	32615	OE1	GLU	B	20	164.690	151.553	-35.083	1.00 74.68	BS2
ATOM	32616	OE2	GLU	B	20	164.329	152.439	-33.077	1.00 74.68	BS2
ATOM	32617	C	GLU	B	20	162.050	151.227	-38.102	1.00112.13	BS2
ATOM	32618	O	GLU	B	20	160.880	151.298	-38.495	1.00112.13	BS2
ATOM	32619	N	ARG	B	21	163.001	150.578	-38.772	1.00101.60	BS2
ATOM	32620	CA	ARG	B	21	162.730	149.939	-40.056	1.00101.60	BS2
ATOM	32621	CB	ARG	B	21	164.011	149.320	-40.618	1.00178.80	BS2
ATOM	32622	CG	ARG	B	21	164.985	148.821	-39.575	1.00178.80	BS2
ATOM	32623	CD	ARG	B	21	166.350	149.437	-39.810	1.00178.80	BS2
ATOM	32624	NE	ARG	B	21	167.387	148.841	-38.974	1.00178.80	BS2
ATOM	32625	CZ	ARG	B	21	167.878	147.617	-39.145	1.00178.80	BS2
ATOM	32626	NH1	ARG	B	21	167.424	146.849	-40.129	1.00178.80	BS2
ATOM	32627	NH2	ARG	B	21	168.828	147.163	-38.335	1.00178.80	BS2
ATOM	32628	C	ARG	B	21	161.604	148.910	-40.058	1.00101.60	BS2
ATOM	32629	O	ARG	B	21	160.449	149.268	-40.289	1.00101.60	BS2
ATOM	32630	N	LYS	B	22	161.934	147.642	-39.808	1.00 78.95	BS2
ATOM	32631	CA	LYS	B	22	160.932	146.570	-39.806	1.00 78.95	BS2
ATOM	32632	CB	LYS	B	22	160.313	146.443	-41.205	1.00 95.45	BS2
ATOM	32633	CG	LYS	B	22	159.216	145.401	-41.364	1.00 95.45	BS2
ATOM	32634	CD	LYS	B	22	158.794	145.341	-42.831	1.00 95.45	BS2
ATOM	32635	CE	LYS	B	22	157.768	144.251	-43.118	1.00 95.45	BS2
ATOM	32636	NZ	LYS	B	22	157.422	144.182	-44.574	1.00 95.45	BS2
ATOM	32637	C	LYS	B	22	161.527	145.227	-39.365	1.00 78.95	BS2
ATOM	32638	O	LYS	B	22	161.930	144.388	-40.174	1.00 78.95	BS2
ATOM	32639	N	ARG	B	23	161.602	145.057	-38.058	1.00157.94	BS2

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ATOM	32640	CA	ARG	B	23	162.107	143.842	-37.441	1.00157.94	BS2
ATOM	32641	CB	ARG	B	23	163.617	143.918	-37.219	1.00 92.66	BS2
ATOM	32642	CG	ARG	B	23	164.319	144.866	-38.151	1.00 92.66	BS2
ATOM	32643	CD	ARG	B	23	163.988	146.321	-37.799	1.00 92.66	BS2
ATOM	32644	NE	ARG	B	23	164.575	146.751	-36.529	1.00 92.66	BS2
ATOM	32645	CZ	ARG	B	23	164.053	146.534	-35.322	1.00 92.66	BS2
ATOM	32646	NH1	ARG	B	23	162.905	145.888	-35.175	1.00 92.66	BS2
ATOM	32647	NH2	ARG	B	23	164.699	146.959	-34.246	1.00 92.66	BS2
ATOM	32648	C	ARG	B	23	161.358	143.933	-36.127	1.00157.94	BS2
ATOM	32649	O	ARG	B	23	161.347	143.007	-35.317	1.00157.94	BS2
ATOM	32650	N	TRP	B	24	160.733	145.098	-35.962	1.00 86.81	BS2
ATOM	32651	CA	TRP	B	24	159.891	145.464	-34.832	1.00 86.81	BS2
ATOM	32652	CB	TRP	B	24	158.451	145.595	-35.342	1.00 52.02	BS2
ATOM	32653	CG	TRP	B	24	157.854	144.277	-35.758	1.00 52.02	BS2
ATOM	32654	CD2	TRP	B	24	156.483	144.010	-36.063	1.00 52.02	BS2
ATOM	32655	CE2	TRP	B	24	156.388	142.633	-36.395	1.00 52.02	BS2
ATOM	32656	CE3	TRP	B	24	155.323	144.792	-36.086	1.00 52.02	BS2
ATOM	32657	CD1	TRP	B	24	158.514	143.093	-35.913	1.00 52.02	BS2
ATOM	32658	NE1	TRP	B	24	157.645	142.100	-36.294	1.00 52.02	BS2
ATOM	32659	C22	TRP	B	24	155.174	142.022	-36.749	1.00 52.02	BS2
ATOM	32660	C23	TRP	B	24	154.112	144.181	-36.438	1.00 52.02	BS2
ATOM	32661	CH2	TRP	B	24	154.053	142.806	-36.765	1.00 52.02	BS2
ATOM	32662	C	TRP	B	24	159.893	144.510	-33.643	1.00 86.81	BS2
ATOM	32663	O	TRP	B	24	160.904	143.905	-33.291	1.00 86.81	BS2
ATOM	32664	N	ASN	B	25	158.718	144.428	-33.025	1.00 53.33	BS2
ATOM	32665	CA	ASN	B	25	158.420	143.553	-31.898	1.00 53.33	BS2
ATOM	32666	CB	ASN	B	25	158.766	144.185	-30.556	1.00 54.86	BS2
ATOM	32667	CG	ASN	B	25	158.455	143.259	-29.390	1.00 54.86	BS2
ATOM	32668	OD1	ASN	B	25	159.066	143.371	-28.327	1.00 54.86	BS2
ATOM	32669	ND2	ASN	B	25	157.494	142.342	-29.584	1.00 54.86	BS2
ATOM	32670	C	ASN	B	25	156.924	143.377	-32.001	1.00 53.33	BS2
ATOM	32671	O	ASN	B	25	156.150	144.160	-31.456	1.00 53.33	BS2
ATOM	32672	N	PRO	B	26	156.506	142.328	-32.704	1.00 49.50	BS2
ATOM	32673	CD	PRO	B	26	157.359	141.145	-32.917	1.00 72.34	BS2
ATOM	32674	CA	PRO	B	26	155.106	141.997	-32.930	1.00 49.50	BS2
ATOM	32675	CB	PRO	B	26	155.121	140.479	-32.904	1.00 72.34	BS2
ATOM	32676	CG	PRO	B	26	156.422	140.181	-33.591	1.00 72.34	BS2
ATOM	32677	C	PRO	B	26	154.150	142.603	-31.918	1.00 49.50	BS2
ATOM	32678	O	PRO	B	26	153.111	143.132	-32.308	1.00 49.50	BS2
ATOM	32679	N	LYS	B	27	154.519	142.543	-30.632	1.00 51.55	BS2
ATOM	32680	CA	LYS	B	27	153.695	143.058	-29.526	1.00 51.55	BS2
ATOM	32681	CB	LYS	B	27	154.397	142.799	-28.192	1.00 71.98	BS2
ATOM	32682	CG	LYS	B	27	154.477	141.339	-27.794	1.00 71.98	BS2
ATOM	32683	CD	LYS	B	27	154.897	141.218	-26.340	1.00 71.98	BS2
ATOM	32684	CE	LYS	B	27	154.756	139.789	-25.827	1.00 71.98	BS2
ATOM	32685	NZ	LYS	B	27	155.053	139.672	-24.360	1.00 71.98	BS2
ATOM	32686	C	LYS	B	27	153.327	144.540	-29.611	1.00 51.55	BS2
ATOM	32687	O	LYS	B	27	152.250	144.963	-29.178	1.00 51.55	BS2
ATOM	32688	N	PHE	B	28	154.239	145.325	-30.161	1.00 52.02	BS2
ATOM	32689	CA	PHE	B	28	154.031	146.752	-30.316	1.00 52.02	BS2
ATOM	32690	CB	PHE	B	28	155.380	147.414	-30.556	1.00 72.19	BS2
ATOM	32691	CG	PHE	B	28	155.365	148.894	-30.410	1.00 72.19	BS2
ATOM	32692	CD1	PHE	B	28	155.280	149.474	-29.153	1.00 72.19	BS2
ATOM	32693	CD2	PHE	B	28	155.464	149.710	-31.526	1.00 72.19	BS2
ATOM	32694	CE1	PHE	B	28	155.298	150.853	-29.004	1.00 72.19	BS2
ATOM	32695	CE2	PHE	B	28	155.482	151.087	-31.393	1.00 72.19	BS2
ATOM	32696	CZ	PHE	B	28	155.401	151.663	-30.126	1.00 72.19	BS2
ATOM	32697	C	PHE	B	28	153.119	146.980	-31.523	1.00 52.02	BS2
ATOM	32698	O	PHE	B	28	152.942	148.112	-31.983	1.00 52.02	BS2
ATOM	32699	N	ALA	B	29	152.540	145.897	-32.031	1.00 61.03	BS2
ATOM	32700	CA	ALA	B	29	151.669	145.974	-33.195	1.00 61.03	BS2
ATOM	32701	CB	ALA	B	29	151.148	144.592	-33.558	1.00 40.65	BS2
ATOM	32702	C	ALA	B	29	150.498	146.921	-33.011	1.00 61.03	BS2
ATOM	32703	O	ALA	B	29	150.098	147.597	-33.963	1.00 61.03	BS2
ATOM	32704	N	ARG	B	30	149.950	146.971	-31.797	1.00 67.32	BS2
ATOM	32705	CA	ARG	B	30	148.798	147.829	-31.509	1.00 67.32	BS2
ATOM	32706	CB	ARG	B	30	148.345	147.641	-30.054	1.00 90.86	BS2
ATOM	32707	CG	ARG	B	30	149.127	148.432	-29.033	1.00 90.86	BS2
ATOM	32708	CD	ARG	B	30	148.861	147.933	-27.622	1.00 90.86	BS2
ATOM	32709	NE	ARG	B	30	149.347	146.567	-27.431	1.00 90.86	BS2
ATOM	32710	CZ	ARG	B	30	149.670	146.041	-26.250	1.00 90.86	BS2
ATOM	32711	NH1	ARG	B	30	149.560	146.769	-25.143	1.00 90.86	BS2
ATOM	32712	NH2	ARG	B	30	150.113	144.787	-26.175	1.00 90.86	BS2
ATOM	32713	C	ARG	B	30	149.064	149.311	-31.789	1.00 67.32	BS2
ATOM	32714	O	ARG	B	30	148.268	149.976	-32.455	1.00 67.32	BS2
ATOM	32715	N	TYR	B	31	150.189	149.824	-31.304	1.00 58.54	BS2
ATOM	32716	CA	TYR	B	31	150.515	151.224	-31.515	1.00 58.54	BS2

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ATOM	32717	CB	TYR	B	31	151.528	151.687	-30.475	1.00	68.95	BS2
ATOM	32718	CG	TYR	B	31	151.099	151.404	-29.065	1.00	68.95	BS2
ATOM	32719	CD1	TYR	B	31	151.850	150.560	-28.256	1.00	68.95	BS2
ATOM	32720	CE1	TYR	B	31	151.462	150.276	-26.956	1.00	68.95	BS2
ATOM	32721	CD2	TYR	B	31	149.940	151.964	-28.541	1.00	68.95	BS2
ATOM	32722	CE2	TYR	B	31	149.537	151.687	-27.241	1.00	68.95	BS2
ATOM	32723	CZ	TYR	B	31	150.306	150.839	-26.453	1.00	68.95	BS2
ATOM	32724	OH	TYR	B	31	149.929	150.535	-25.167	1.00	68.95	BS2
ATOM	32725	C	TYR	B	31	151.042	151.559	-32.910	1.00	58.54	BS2
ATOM	32726	O	TYR	B	31	151.421	152.701	-33.169	1.00	58.54	BS2
ATOM	32727	N	ILE	B	32	151.079	150.584	-33.812	1.00	69.69	BS2
ATOM	32728	CA	ILE	B	32	151.562	150.866	-35.162	1.00	69.69	BS2
ATOM	32729	CB	ILE	B	32	152.394	149.699	-35.751	1.00	56.49	BS2
ATOM	32730	CG2	ILE	B	32	152.730	149.985	-37.214	1.00	56.49	BS2
ATOM	32731	CG1	ILE	B	32	153.683	149.526	-34.938	1.00	56.49	BS2
ATOM	32732	CD1	ILE	B	32	154.659	148.542	-35.519	1.00	56.49	BS2
ATOM	32733	C	ILE	B	32	150.406	151.177	-36.091	1.00	69.69	BS2
ATOM	32734	O	ILE	B	32	149.359	150.532	-36.049	1.00	69.69	BS2
ATOM	32735	N	TYR	B	33	150.617	152.183	-36.927	1.00	78.09	BS2
ATOM	32736	CA	TYR	B	33	149.610	152.633	-37.875	1.00	78.09	BS2
ATOM	32737	CB	TYR	B	33	149.650	154.165	-37.961	1.00	129.03	BS2
ATOM	32738	CG	TYR	B	33	148.647	154.786	-38.907	1.00	129.03	BS2
ATOM	32739	CD1	TYR	B	33	147.349	154.289	-39.006	1.00	129.03	BS2
ATOM	32740	CE1	TYR	B	33	146.419	154.879	-39.852	1.00	129.03	BS2
ATOM	32741	CD2	TYR	B	33	148.988	155.894	-39.682	1.00	129.03	BS2
ATOM	32742	CE2	TYR	B	33	148.064	156.492	-40.529	1.00	129.03	BS2
ATOM	32743	CZ	TYR	B	33	146.784	155.978	-40.608	1.00	129.03	BS2
ATOM	32744	OH	TYR	B	33	145.865	156.558	-41.446	1.00	129.03	BS2
ATOM	32745	C	TYR	B	33	149.832	152.008	-39.246	1.00	78.09	BS2
ATOM	32746	O	TYR	B	33	148.878	151.573	-39.897	1.00	78.09	BS2
ATOM	32747	N	ALA	B	34	151.093	151.966	-39.675	1.00	80.39	BS2
ATOM	32748	CA	ALA	B	34	151.448	151.389	-40.968	1.00	80.39	BS2
ATOM	32749	CB	ALA	B	34	150.596	152.008	-42.067	1.00	41.21	BS2
ATOM	32750	C	ALA	B	34	152.930	151.552	-41.308	1.00	80.39	BS2
ATOM	32751	O	ALA	B	34	153.690	152.182	-40.569	1.00	80.39	BS2
ATOM	32752	N	GLU	B	35	153.330	150.966	-42.435	1.00	87.28	BS2
ATOM	32753	CA	GLU	B	35	154.706	151.039	-42.905	1.00	87.28	BS2
ATOM	32754	CB	GLU	B	35	155.205	149.666	-43.342	1.00	130.19	BS2
ATOM	32755	CG	GLU	B	35	155.413	148.666	-42.237	1.00	130.19	BS2
ATOM	32756	CD	GLU	B	35	155.905	147.340	-42.775	1.00	130.19	BS2
ATOM	32757	OE1	GLU	B	35	156.954	147.325	-43.452	1.00	130.19	BS2
ATOM	32758	OE2	GLU	B	35	155.242	146.313	-42.526	1.00	130.19	BS2
ATOM	32759	C	GLU	B	35	154.755	151.957	-44.109	1.00	87.28	BS2
ATOM	32760	O	GLU	B	35	153.834	151.968	-44.921	1.00	87.28	BS2
ATOM	32761	N	ARG	B	36	155.833	152.724	-44.221	1.00	112.85	BS2
ATOM	32762	CA	ARG	B	36	156.018	153.630	-45.345	1.00	112.85	BS2
ATOM	32763	CB	ARG	B	36	155.541	155.034	-44.995	1.00	109.91	BS2
ATOM	32764	CG	ARG	B	36	154.038	155.172	-45.044	1.00	109.91	BS2
ATOM	32765	CD	ARG	B	36	153.619	156.610	-44.878	1.00	109.91	BS2
ATOM	32766	NE	ARG	B	36	152.192	156.774	-45.120	1.00	109.91	BS2
ATOM	32767	CZ	ARG	B	36	151.544	157.924	-44.974	1.00	109.91	BS2
ATOM	32768	NH1	ARG	B	36	152.204	159.008	-44.585	1.00	109.91	BS2
ATOM	32769	NH2	ARG	B	36	150.239	157.989	-45.213	1.00	109.91	BS2
ATOM	32770	C	ARG	B	36	157.483	153.658	-45.717	1.00	112.85	BS2
ATOM	32771	O	ARG	B	36	158.330	154.036	-44.907	1.00	112.85	BS2
ATOM	32772	N	ASN	B	37	157.774	153.257	-46.950	1.00	154.89	BS2
ATOM	32773	CA	ASN	B	37	159.146	153.205	-47.432	1.00	154.89	BS2
ATOM	32774	CB	ASN	B	37	159.808	154.585	-47.350	1.00	144.38	BS2
ATOM	32775	CG	ASN	B	37	159.199	155.584	-48.319	1.00	144.38	BS2
ATOM	32776	OD1	ASN	B	37	159.127	155.331	-49.523	1.00	144.38	BS2
ATOM	32777	ND2	ASN	B	37	158.760	156.726	-47.798	1.00	144.38	BS2
ATOM	32778	C	ASN	B	37	159.908	152.199	-46.580	1.00	154.89	BS2
ATOM	32779	O	ASN	B	37	161.107	152.351	-46.336	1.00	154.89	BS2
ATOM	32780	N	GLY	B	38	159.189	151.178	-46.119	1.00	118.16	BS2
ATOM	32781	CA	GLY	B	38	159.796	150.137	-45.309	1.00	118.16	BS2
ATOM	32782	C	GLY	B	38	159.905	150.428	-43.824	1.00	118.16	BS2
ATOM	32783	O	GLY	B	38	160.435	149.613	-43.067	1.00	118.16	BS2
ATOM	32784	N	ILE	B	39	159.416	151.583	-43.394	1.00	77.40	BS2
ATOM	32785	CA	ILE	B	39	159.476	151.935	-41.984	1.00	77.40	BS2
ATOM	32786	CB	ILE	B	39	160.141	153.306	-41.781	1.00	103.56	BS2
ATOM	32787	CG2	ILE	B	39	160.146	153.666	-40.306	1.00	103.56	BS2
ATOM	32788	CG1	ILE	B	39	161.571	153.270	-42.320	1.00	103.56	BS2
ATOM	32789	CD1	ILE	B	39	162.303	154.589	-42.189	1.00	103.56	BS2
ATOM	32790	C	ILE	B	39	158.083	151.970	-41.364	1.00	77.40	BS2
ATOM	32791	O	ILE	B	39	157.117	152.413	-41.994	1.00	77.40	BS2
ATOM	32792	N	HIS	B	40	157.985	151.485	-40.130	1.00	106.17	BS2
ATOM	32793	CA	HIS	B	40	156.716	151.477	-39.413	1.00	106.17	BS2

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ATOM	32794	CB	HIS	B	40	156.818	150.647	-38.130	1.00	80.97	BS2
ATOM	32795	CG	HIS	B	40	156.618	149.178	-38.327	1.00	80.97	BS2
ATOM	32796	CD2	HIS	B	40	155.532	148.471	-38.718	1.00	80.97	BS2
ATOM	32797	ND1	HIS	B	40	157.606	148.251	-38.067	1.00	80.97	BS2
ATOM	32798	CE1	HIS	B	40	157.136	147.036	-38.289	1.00	80.97	BS2
ATOM	32799	NE2	HIS	B	40	155.879	147.142	-38.684	1.00	80.97	BS2
ATOM	32800	C	HIS	B	40	156.376	152.908	-39.027	1.00	106.17	BS2
ATOM	32801	O	HIS	B	40	157.267	153.704	-38.734	1.00	106.17	BS2
ATOM	32802	N	ILE	B	41	155.090	153.231	-39.018	1.00	83.16	BS2
ATOM	32803	CA	ILE	B	41	154.650	154.565	-38.638	1.00	83.16	BS2
ATOM	32804	CB	ILE	B	41	153.991	155.297	-39.833	1.00	77.50	BS2
ATOM	32805	CG2	ILE	B	41	152.905	156.250	-39.345	1.00	77.50	BS2
ATOM	32806	CG1	ILE	B	41	155.072	156.038	-40.625	1.00	77.50	BS2
ATOM	32807	CD1	ILE	B	41	154.537	157.031	-41.652	1.00	77.50	BS2
ATOM	32808	C	ILE	B	41	153.687	154.502	-37.451	1.00	83.16	BS2
ATOM	32809	O	ILE	B	41	152.555	154.025	-37.573	1.00	83.16	BS2
ATOM	32810	N	ILE	B	42	154.154	154.982	-36.301	1.00	63.21	BS2
ATOM	32811	CA	ILE	B	42	153.351	154.973	-35.086	1.00	63.21	BS2
ATOM	32812	CB	ILE	B	42	154.141	155.557	-33.889	1.00	52.52	BS2
ATOM	32813	CG2	ILE	B	42	153.330	155.427	-32.599	1.00	52.52	BS2
ATOM	32814	CG1	ILE	B	42	155.468	154.824	-33.727	1.00	52.52	BS2
ATOM	32815	CD1	ILE	B	42	156.285	155.332	-32.557	1.00	52.52	BS2
ATOM	32816	C	ILE	B	42	152.082	155.803	-35.261	1.00	63.21	BS2
ATOM	32817	O	ILE	B	42	152.127	156.884	-35.850	1.00	63.21	BS2
ATOM	32818	N	ASP	B	43	150.959	155.296	-34.746	1.00	80.46	BS2
ATOM	32819	CA	ASP	B	43	149.669	155.997	-34.811	1.00	80.46	BS2
ATOM	32820	CB	ASP	B	43	148.508	155.012	-34.662	1.00	89.55	BS2
ATOM	32821	CG	ASP	B	43	147.153	155.702	-34.693	1.00	89.55	BS2
ATOM	32822	OD1	ASP	B	43	147.053	156.856	-34.213	1.00	89.55	BS2
ATOM	32823	OD2	ASP	B	43	146.184	155.084	-35.186	1.00	89.55	BS2
ATOM	32824	C	ASP	B	43	149.601	157.009	-33.669	1.00	80.46	BS2
ATOM	32825	O	ASP	B	43	149.474	156.629	-32.499	1.00	80.46	BS2
ATOM	32826	N	LEU	B	44	149.654	158.292	-34.008	1.00	60.69	BS2
ATOM	32827	CA	LEU	B	44	149.639	159.333	-32.986	1.00	60.69	BS2
ATOM	32828	CB	LEU	B	44	150.142	160.639	-33.590	1.00	59.56	BS2
ATOM	32829	CG	LEU	B	44	151.597	160.488	-34.018	1.00	59.56	BS2
ATOM	32830	CD1	LEU	B	44	152.020	161.678	-34.836	1.00	59.56	BS2
ATOM	32831	CD2	LEU	B	44	152.461	160.336	-32.784	1.00	59.56	BS2
ATOM	32832	C	LEU	B	44	148.313	159.553	-32.262	1.00	60.69	BS2
ATOM	32833	O	LEU	B	44	148.295	159.986	-31.106	1.00	60.69	BS2
ATOM	32834	N	GLN	B	45	147.205	159.262	-32.931	1.00	76.26	BS2
ATOM	32835	CA	GLN	B	45	145.909	159.414	-32.293	1.00	76.26	BS2
ATOM	32836	CB	GLN	B	45	144.825	158.908	-33.234	1.00	143.50	BS2
ATOM	32837	CG	GLN	B	45	144.929	159.553	-34.600	1.00	143.50	BS2
ATOM	32838	CD	GLN	B	45	144.112	158.842	-35.649	1.00	143.50	BS2
ATOM	32839	OE1	GLN	B	45	142.889	158.762	-35.549	1.00	143.50	BS2
ATOM	32840	NE2	GLN	B	45	144.785	158.319	-36.669	1.00	143.50	BS2
ATOM	32841	C	GLN	B	45	145.968	158.578	-31.013	1.00	76.26	BS2
ATOM	32842	O	GLN	B	45	145.371	158.922	-29.992	1.00	76.26	BS2
ATOM	32843	N	LYS	B	46	146.722	157.484	-31.079	1.00	69.68	BS2
ATOM	32844	CA	LYS	B	46	146.900	156.599	-29.940	1.00	69.68	BS2
ATOM	32845	CB	LYS	B	46	147.298	155.206	-30.416	1.00	87.80	BS2
ATOM	32846	CG	LYS	B	46	146.211	154.546	-31.240	1.00	87.80	BS2
ATOM	32847	CD	LYS	B	46	146.645	153.206	-31.786	1.00	87.80	BS2
ATOM	32848	CE	LYS	B	46	145.607	152.646	-32.751	1.00	87.80	BS2
ATOM	32849	NZ	LYS	B	46	146.097	151.417	-33.450	1.00	87.80	BS2
ATOM	32850	C	LYS	B	46	147.974	157.187	-29.044	1.00	69.68	BS2
ATOM	32851	O	LYS	B	46	147.806	157.247	-27.828	1.00	69.68	BS2
ATOM	32852	N	THR	B	47	149.071	157.635	-29.648	1.00	55.65	BS2
ATOM	32853	CA	THR	B	47	150.162	158.250	-28.893	1.00	55.65	BS2
ATOM	32854	CB	THR	B	47	151.144	158.991	-29.805	1.00	57.13	BS2
ATOM	32855	OG1	THR	B	47	151.624	158.101	-30.818	1.00	57.13	BS2
ATOM	32856	CG2	THR	B	47	152.316	159.526	-28.988	1.00	57.13	BS2
ATOM	32857	C	THR	B	47	149.578	159.285	-27.942	1.00	55.65	BS2
ATOM	32858	O	THR	B	47	150.174	159.620	-26.914	1.00	55.65	BS2
ATOM	32859	N	MET	B	48	148.412	159.800	-28.323	1.00	80.66	BS2
ATOM	32860	CA	MET	B	48	147.689	160.793	-27.543	1.00	80.66	BS2
ATOM	32861	CB	MET	B	48	146.611	161.454	-28.403	1.00	110.07	BS2
ATOM	32862	CG	MET	B	48	147.130	162.364	-29.500	1.00	110.07	BS2
ATOM	32863	SD	MET	B	48	147.891	163.854	-28.837	1.00	110.07	BS2
ATOM	32864	CE	MET	B	48	146.436	164.783	-28.334	1.00	110.07	BS2
ATOM	32865	C	MET	B	48	147.021	160.091	-26.379	1.00	80.66	BS2
ATOM	32866	O	MET	B	48	147.323	160.359	-25.213	1.00	80.66	BS2
ATOM	32867	N	GLU	B	49	146.111	159.183	-26.722	1.00	72.50	BS2
ATOM	32868	CA	GLU	B	49	145.368	158.429	-25.732	1.00	72.50	BS2
ATOM	32869	CB	GLU	B	49	144.665	157.249	-26.388	1.00	154.77	BS2
ATOM	32870	CG	GLU	B	49	143.629	157.688	-27.395	1.00	154.77	BS2

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ATOM	32871	CD	GLU	B	49	142.820	156.537	-27.943	1.00154.77	BS2
ATOM	32872	OE1	GLU	B	49	142.155	155.842	-27.144	1.00154.77	BS2
ATOM	32873	OE2	GLU	B	49	142.847	156.331	-29.175	1.00154.77	BS2
ATOM	32874	C	GLU	B	49	146.259	157.953	-24.604	1.00 72.50	BS2
ATOM	32875	O	GLU	B	49	145.805	157.827	-23.468	1.00 72.50	BS2
ATOM	32876	N	GLU	B	50	147.530	157.704	-24.906	1.00 63.38	BS2
ATOM	32877	CA	GLU	B	50	148.458	157.249	-23.878	1.00 63.38	BS2
ATOM	32878	CB	GLU	B	50	149.569	156.397	-24.488	1.00103.75	BS2
ATOM	32879	CG	GLU	B	50	149.158	154.950	-24.763	1.00103.75	BS2
ATOM	32880	CD	GLU	B	50	148.539	154.264	-23.551	1.00103.75	BS2
ATOM	32881	OE1	GLU	B	50	149.055	154.454	-22.426	1.00103.75	BS2
ATOM	32882	OE2	GLU	B	50	147.543	153.527	-23.728	1.00103.75	BS2
ATOM	32883	C	GLU	B	50	149.061	158.396	-23.078	1.00 63.38	BS2
ATOM	32884	O	GLU	B	50	149.261	158.278	-21.868	1.00 63.38	BS2
ATOM	32885	N	LEU	B	51	149.360	159.499	-23.752	1.00 61.67	BS2
ATOM	32886	CA	LEU	B	51	149.907	160.658	-23.071	1.00 61.67	BS2
ATOM	32887	CB	LEU	B	51	150.055	161.809	-24.040	1.00 43.01	BS2
ATOM	32888	CG	LEU	B	51	151.255	161.724	-24.957	1.00 43.01	BS2
ATOM	32889	CD1	LEU	B	51	150.959	162.555	-26.190	1.00 43.01	BS2
ATOM	32890	CD2	LEU	B	51	152.522	162.193	-24.220	1.00 43.01	BS2
ATOM	32891	C	LEU	B	51	148.909	161.057	-22.007	1.00 61.67	BS2
ATOM	32892	O	LEU	B	51	149.250	161.203	-20.828	1.00 61.67	BS2
ATOM	32893	N	GLU	B	52	147.667	161.239	-22.449	1.00 77.83	BS2
ATOM	32894	CA	GLU	B	52	146.582	161.623	-21.563	1.00 77.83	BS2
ATOM	32895	CB	GLU	B	52	145.240	161.340	-22.240	1.00160.94	BS2
ATOM	32896	CG	GLU	B	52	144.020	161.669	-21.401	1.00160.94	BS2
ATOM	32897	CD	GLU	B	52	142.723	161.492	-22.172	1.00160.94	BS2
ATOM	32898	OE1	GLU	B	52	141.643	161.689	-21.575	1.00160.94	BS2
ATOM	32899	OE2	GLU	B	52	142.785	161.159	-23.376	1.00160.94	BS2
ATOM	32900	C	GLU	B	52	146.719	160.796	-20.297	1.00 77.83	BS2
ATOM	32901	O	GLU	B	52	147.056	161.311	-19.221	1.00 77.83	BS2
ATOM	32902	N	ARG	B	53	146.489	159.498	-20.461	1.00 72.32	BS2
ATOM	32903	CA	ARG	B	53	146.566	158.534	-19.377	1.00 72.32	BS2
ATOM	32904	CB	ARG	B	53	146.369	157.133	-19.941	1.00 82.17	BS2
ATOM	32905	CG	ARG	B	53	146.534	156.065	-18.914	1.00 82.17	BS2
ATOM	32906	CD	ARG	B	53	146.211	154.694	-19.458	1.00 82.17	BS2
ATOM	32907	NE	ARG	B	53	146.507	153.699	-18.438	1.00 82.17	BS2
ATOM	32908	CZ	ARG	B	53	147.728	153.476	-17.969	1.00 82.17	BS2
ATOM	32909	NH1	ARG	B	53	148.753	154.173	-18.444	1.00 82.17	BS2
ATOM	32910	NH2	ARG	B	53	147.921	152.586	-17.007	1.00 82.17	BS2
ATOM	32911	C	ARG	B	53	147.883	158.593	-18.609	1.00 72.32	BS2
ATOM	32912	O	ARG	B	53	147.905	158.509	-17.383	1.00 72.32	BS2
ATOM	32913	N	THR	B	54	148.979	158.746	-19.336	1.00 62.97	BS2
ATOM	32914	CA	THR	B	54	150.294	158.787	-18.718	1.00 62.97	BS2
ATOM	32915	CB	THR	B	54	151.394	158.621	-19.769	1.00 72.27	BS2
ATOM	32916	OG1	THR	B	54	151.262	157.336	-20.397	1.00 72.27	BS2
ATOM	32917	CG2	THR	B	54	152.766	158.744	-19.119	1.00 72.27	BS2
ATOM	32918	C	THR	B	54	150.572	160.057	-17.938	1.00 62.97	BS2
ATOM	32919	O	THR	B	54	150.874	160.007	-16.744	1.00 62.97	BS2
ATOM	32920	N	PHE	B	55	150.492	161.194	-18.620	1.00 73.50	BS2
ATOM	32921	CA	PHE	B	55	150.746	162.472	-17.976	1.00 73.50	BS2
ATOM	32922	CB	PHE	B	55	150.521	163.620	-18.961	1.00 73.11	BS2
ATOM	32923	CG	PHE	B	55	151.734	163.953	-19.783	1.00 73.11	BS2
ATOM	32924	CD1	PHE	B	55	152.378	162.974	-20.529	1.00 73.11	BS2
ATOM	32925	CD2	PHE	B	55	152.248	165.241	-19.797	1.00 73.11	BS2
ATOM	32926	CE1	PHE	B	55	153.517	163.273	-21.273	1.00 73.11	BS2
ATOM	32927	CE2	PHE	B	55	153.383	165.547	-20.537	1.00 73.11	BS2
ATOM	32928	CZ	PHE	B	55	154.019	164.560	-21.276	1.00 73.11	BS2
ATOM	32929	C	PHE	B	55	149.835	162.612	-16.780	1.00 73.50	BS2
ATOM	32930	O	PHE	B	55	150.239	163.152	-15.744	1.00 73.50	BS2
ATOM	32931	N	ARG	B	56	148.611	162.106	-16.929	1.00 64.41	BS2
ATOM	32932	CA	ARG	B	56	147.621	162.156	-15.860	1.00 64.41	BS2
ATOM	32933	CB	ARG	B	56	146.366	161.388	-16.267	1.00105.08	BS2
ATOM	32934	CG	ARG	B	56	145.113	161.815	-15.529	1.00105.08	BS2
ATOM	32935	CD	ARG	B	56	144.053	160.738	-15.610	1.00105.08	BS2
ATOM	32936	NE	ARG	B	56	143.993	160.135	-16.938	1.00105.08	BS2
ATOM	32937	CZ	ARG	B	56	143.310	159.031	-17.229	1.00105.08	BS2
ATOM	32938	NH1	ARG	B	56	142.620	158.403	-16.284	1.00105.08	BS2
ATOM	32939	NH2	ARG	B	56	143.327	158.544	-18.465	1.00105.08	BS2
ATOM	32940	C	ARG	B	56	148.243	161.508	-14.626	1.00 64.41	BS2
ATOM	32941	O	ARG	B	56	148.234	162.077	-13.530	1.00 64.41	BS2
ATOM	32942	N	PHE	B	57	148.790	160.311	-14.819	1.00 64.19	BS2
ATOM	32943	CA	PHE	B	57	149.440	159.578	-13.741	1.00 64.19	BS2
ATOM	32944	CB	PHE	B	57	150.007	158.251	-14.263	1.00 48.85	BS2
ATOM	32945	CG	PHE	B	57	151.037	157.621	-13.353	1.00 48.85	BS2
ATOM	32946	CD1	PHE	B	57	150.677	157.095	-12.118	1.00 48.85	BS2
ATOM	32947	CD2	PHE	B	57	152.371	157.548	-13.738	1.00 48.85	BS2

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ATOM	32948	CE1	PHE	B	57	151.630	156.504	-11.281	1.00	48.85	BS2
ATOM	32949	CE2	PHE	B	57	153.328	156.959	-12.908	1.00	48.85	BS2
ATOM	32950	CZ	PHE	B	57	152.952	156.438	-11.679	1.00	48.85	BS2
ATOM	32951	C	PHE	B	57	150.565	160.416	-13.166	1.00	64.19	BS2
ATOM	32952	O	PHE	B	57	150.757	160.448	-11.958	1.00	64.19	BS2
ATOM	32953	N	ILE	B	58	151.303	161.104	-14.030	1.00	56.22	BS2
ATOM	32954	CA	ILE	B	58	152.421	161.915	-13.561	1.00	56.22	BS2
ATOM	32955	CB	ILE	B	58	153.230	162.487	-14.738	1.00	69.84	BS2
ATOM	32956	CG2	ILE	B	58	154.610	162.933	-14.253	1.00	69.84	BS2
ATOM	32957	CG1	ILE	B	58	153.424	161.403	-15.796	1.00	69.84	BS2
ATOM	32958	CD1	ILE	B	58	154.231	161.855	-16.990	1.00	69.84	BS2
ATOM	32959	C	ILE	B	58	152.010	163.048	-12.614	1.00	56.22	BS2
ATOM	32960	O	ILE	B	58	152.638	163.224	-11.566	1.00	56.22	BS2
ATOM	32961	N	GLU	B	59	150.974	163.814	-12.973	1.00	80.32	BS2
ATOM	32962	CA	GLU	B	59	150.493	164.895	-12.103	1.00	80.32	BS2
ATOM	32963	CB	GLU	B	59	149.095	165.360	-12.493	1.00	116.65	BS2
ATOM	32964	CG	GLU	B	59	148.970	166.169	-13.749	1.00	116.65	BS2
ATOM	32965	CD	GLU	B	59	147.627	166.879	-13.808	1.00	116.65	BS2
ATOM	32966	OE1	GLU	B	59	147.404	167.776	-12.963	1.00	116.65	BS2
ATOM	32967	OE2	GLU	B	59	146.796	166.537	-14.681	1.00	116.65	BS2
ATOM	32968	C	GLU	B	59	150.378	164.313	-10.706	1.00	80.32	BS2
ATOM	32969	O	GLU	B	59	150.892	164.864	-9.729	1.00	80.32	BS2
ATOM	32970	N	ASP	B	60	149.658	163.198	-10.639	1.00	64.38	BS2
ATOM	32971	CA	ASP	B	60	149.440	162.470	-9.404	1.00	64.38	BS2
ATOM	32972	CB	ASP	B	60	149.014	161.041	-9.748	1.00	171.95	BS2
ATOM	32973	CG	ASP	B	60	148.771	160.190	-8.527	1.00	171.95	BS2
ATOM	32974	OD1	ASP	B	60	149.738	159.901	-7.792	1.00	171.95	BS2
ATOM	32975	OD2	ASP	B	60	147.605	159.807	-8.304	1.00	171.95	BS2
ATOM	32976	C	ASP	B	60	150.744	162.478	-8.604	1.00	64.38	BS2
ATOM	32977	O	ASP	B	60	150.926	163.312	-7.719	1.00	64.38	BS2
ATOM	32978	N	LEU	B	61	151.654	161.566	-8.941	1.00	73.15	BS2
ATOM	32979	CA	LEU	B	61	152.945	161.449	-8.264	1.00	73.15	BS2
ATOM	32980	CB	LEU	B	61	153.864	160.485	-9.020	1.00	154.70	BS2
ATOM	32981	CG	LEU	B	61	153.999	159.044	-8.527	1.00	154.70	BS2
ATOM	32982	CD1	LEU	B	61	154.977	158.308	-9.426	1.00	154.70	BS2
ATOM	32983	CD2	LEU	B	61	154.490	159.025	-7.085	1.00	154.70	BS2
ATOM	32984	C	LEU	B	61	153.659	162.782	-8.141	1.00	73.15	BS2
ATOM	32985	O	LEU	B	61	154.509	162.965	-7.262	1.00	73.15	BS2
ATOM	32986	N	ALA	B	62	153.322	163.705	-9.035	1.00	70.17	BS2
ATOM	32987	CA	ALA	B	62	153.947	165.022	-9.047	1.00	70.17	BS2
ATOM	32988	CB	ALA	B	62	153.624	165.739	-10.356	1.00	135.21	BS2
ATOM	32989	C	ALA	B	62	153.512	165.874	-7.867	1.00	70.17	BS2
ATOM	32990	O	ALA	B	62	154.280	166.080	-6.922	1.00	70.17	BS2
ATOM	32991	N	MET	B	63	152.276	166.360	-7.936	1.00	88.09	BS2
ATOM	32992	CA	MET	B	63	151.715	167.205	-6.894	1.00	88.09	BS2
ATOM	32993	CB	MET	B	63	150.288	167.608	-7.247	1.00	138.71	BS2
ATOM	32994	CG	MET	B	63	149.359	166.434	-7.422	1.00	138.71	BS2
ATOM	32995	SD	MET	B	63	147.655	166.937	-7.229	1.00	138.71	BS2
ATOM	32996	CE	MET	B	63	147.346	166.393	-5.525	1.00	138.71	BS2
ATOM	32997	C	MET	B	63	151.714	166.490	-5.560	1.00	88.09	BS2
ATOM	32998	O	MET	B	63	151.441	167.085	-4.525	1.00	88.09	BS2
ATOM	32999	N	ARG	B	64	152.021	165.204	-5.594	1.00	61.03	BS2
ATOM	33000	CA	ARG	B	64	152.058	164.402	-4.382	1.00	61.03	BS2
ATOM	33001	CB	ARG	B	64	151.768	162.947	-4.732	1.00	100.82	BS2
ATOM	33002	CG	ARG	B	64	151.219	162.132	-3.598	1.00	100.82	BS2
ATOM	33003	CD	ARG	B	64	150.153	161.237	-4.153	1.00	100.82	BS2
ATOM	33004	NE	ARG	B	64	149.403	161.960	-5.177	1.00	100.82	BS2
ATOM	33005	CZ	ARG	B	64	148.355	161.469	-5.832	1.00	100.82	BS2
ATOM	33006	NH1	ARG	B	64	147.919	160.242	-5.568	1.00	100.82	BS2
ATOM	33007	NH2	ARG	B	64	147.756	162.199	-6.767	1.00	100.82	BS2
ATOM	33008	C	ARG	B	64	153.430	164.513	-3.710	1.00	61.03	BS2
ATOM	33009	O	ARG	B	64	153.617	164.057	-2.574	1.00	61.03	BS2
ATOM	33010	N	GLY	B	65	154.382	165.123	-4.415	1.00	86.40	BS2
ATOM	33011	CA	GLY	B	65	155.725	165.266	-3.877	1.00	86.40	BS2
ATOM	33012	C	GLY	B	65	156.521	163.970	-3.952	1.00	86.40	BS2
ATOM	33013	O	GLY	B	65	157.335	163.674	-3.074	1.00	86.40	BS2
ATOM	33014	N	GLY	B	66	156.276	163.189	-5.001	1.00	77.20	BS2
ATOM	33015	CA	GLY	B	66	156.983	161.936	-5.176	1.00	77.20	BS2
ATOM	33016	C	GLY	B	66	158.097	162.149	-6.176	1.00	77.20	BS2
ATOM	33017	O	GLY	B	66	158.075	163.135	-6.910	1.00	77.20	BS2
ATOM	33018	N	THR	B	67	159.068	161.241	-6.210	1.00	70.79	BS2
ATOM	33019	CA	THR	B	67	160.188	161.370	-7.137	1.00	70.79	BS2
ATOM	33020	CB	THR	B	67	161.521	161.065	-6.474	1.00	68.15	BS2
ATOM	33021	OG1	THR	B	67	161.309	160.732	-5.096	1.00	68.15	BS2
ATOM	33022	CG2	THR	B	67	162.444	162.263	-6.601	1.00	68.15	BS2
ATOM	33023	C	THR	B	67	160.106	160.451	-8.325	1.00	70.79	BS2
ATOM	33024	O	THR	B	67	159.538	159.369	-8.250	1.00	70.79	BS2

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ATOM	33025	N	ILE	B	68	160.705	160.890	-9.420	1.00	60.74	BS2
ATOM	33026	CA	ILE	B	68	160.738	160.111	-10.642	1.00	60.74	BS2
ATOM	33027	CB	ILE	B	68	159.906	160.760	-11.758	1.00	39.22	BS2
ATOM	33028	CG2	ILE	B	68	160.286	160.159	-13.103	1.00	39.22	BS2
ATOM	33029	CG1	ILE	B	68	158.415	160.556	-11.477	1.00	39.22	BS2
ATOM	33030	CD1	ILE	B	68	157.497	161.039	-12.596	1.00	39.22	BS2
ATOM	33031	C	ILE	B	68	162.175	160.013	-11.111	1.00	60.74	BS2
ATOM	33032	O	ILE	B	68	162.838	161.033	-11.303	1.00	60.74	BS2
ATOM	33033	N	LEU	B	69	162.662	158.787	-11.282	1.00	56.68	BS2
ATOM	33034	CA	LEU	B	69	164.025	158.579	-11.748	1.00	56.68	BS2
ATOM	33035	CB	LEU	B	69	164.586	157.276	-11.186	1.00	52.21	BS2
ATOM	33036	CG	LEU	B	69	166.113	157.184	-11.179	1.00	52.21	BS2
ATOM	33037	CD1	LEU	B	69	166.575	155.814	-10.678	1.00	52.21	BS2
ATOM	33038	CD2	LEU	B	69	166.626	157.430	-12.579	1.00	52.21	BS2
ATOM	33039	C	LEU	B	69	164.014	158.519	-13.276	1.00	56.68	BS2
ATOM	33040	O	LEU	B	69	163.449	157.590	-13.864	1.00	56.68	BS2
ATOM	33041	N	PHE	B	70	164.617	159.524	-13.909	1.00	71.64	BS2
ATOM	33042	CA	PHE	B	70	164.704	159.572	-15.365	1.00	71.64	BS2
ATOM	33043	CB	PHE	B	70	164.839	161.006	-15.869	1.00	52.84	BS2
ATOM	33044	CG	PHE	B	70	163.584	161.820	-15.765	1.00	52.84	BS2
ATOM	33045	CD1	PHE	B	70	163.163	162.329	-14.538	1.00	52.84	BS2
ATOM	33046	CD2	PHE	B	70	162.841	162.122	-16.909	1.00	52.84	BS2
ATOM	33047	CE1	PHE	B	70	162.019	163.134	-14.455	1.00	52.84	BS2
ATOM	33048	CE2	PHE	B	70	161.701	162.921	-16.837	1.00	52.84	BS2
ATOM	33049	CZ	PHE	B	70	161.288	163.429	-15.610	1.00	52.84	BS2
ATOM	33050	C	PHE	B	70	165.949	158.803	-15.790	1.00	71.64	BS2
ATOM	33051	O	PHE	B	70	167.065	159.135	-15.371	1.00	71.64	BS2
ATOM	33052	N	VAL	B	71	165.758	157.776	-16.617	1.00	52.98	BS2
ATOM	33053	CA	VAL	B	71	166.876	156.971	-17.094	1.00	52.98	BS2
ATOM	33054	CB	VAL	B	71	166.686	155.471	-16.748	1.00	64.36	BS2
ATOM	33055	CG1	VAL	B	71	167.928	154.700	-17.122	1.00	64.36	BS2
ATOM	33056	CG2	VAL	B	71	166.422	155.297	-15.264	1.00	64.36	BS2
ATOM	33057	C	VAL	B	71	167.046	157.117	-18.606	1.00	52.98	BS2
ATOM	33058	O	VAL	B	71	166.133	156.821	-19.380	1.00	52.98	BS2
ATOM	33059	N	GLY	B	72	168.220	157.591	-19.009	1.00	81.64	BS2
ATOM	33060	CA	GLY	B	72	168.509	157.774	-20.419	1.00	81.64	BS2
ATOM	33061	C	GLY	B	72	169.990	157.598	-20.722	1.00	81.64	BS2
ATOM	33062	O	GLY	B	72	170.798	158.514	-20.484	1.00	81.64	BS2
ATOM	33063	N	THR	B	73	170.350	156.420	-21.237	1.00	60.96	BS2
ATOM	33064	CA	THR	B	73	171.740	156.128	-21.579	1.00	60.96	BS2
ATOM	33065	CB	THR	B	73	172.131	154.693	-21.170	1.00	112.33	BS2
ATOM	33066	OG1	THR	B	73	171.991	154.545	-19.750	1.00	112.33	BS2
ATOM	33067	CG2	THR	B	73	173.573	154.405	-21.557	1.00	112.33	BS2
ATOM	33068	C	THR	B	73	171.978	156.323	-23.081	1.00	60.96	BS2
ATOM	33069	O	THR	B	73	173.011	156.865	-23.480	1.00	60.96	BS2
ATOM	33070	N	LYS	B	74	171.027	155.885	-23.908	1.00	63.00	BS2
ATOM	33071	CA	LYS	B	74	171.128	156.058	-25.360	1.00	63.00	BS2
ATOM	33072	CB	LYS	B	74	169.744	155.878	-25.989	1.00	63.32	BS2
ATOM	33073	CG	LYS	B	74	169.480	156.759	-27.201	1.00	63.32	BS2
ATOM	33074	CD	LYS	B	74	167.989	156.976	-27.385	1.00	63.32	BS2
ATOM	33075	CE	LYS	B	74	167.283	155.712	-27.843	1.00	63.32	BS2
ATOM	33076	NZ	LYS	B	74	167.040	155.739	-29.316	1.00	63.32	BS2
ATOM	33077	C	LYS	B	74	171.651	157.472	-25.647	1.00	63.00	BS2
ATOM	33078	O	LYS	B	74	170.983	158.454	-25.338	1.00	63.00	BS2
ATOM	33079	N	LYS	B	75	172.834	157.580	-26.245	1.00	101.98	BS2
ATOM	33080	CA	LYS	B	75	173.433	158.888	-26.526	1.00	101.98	BS2
ATOM	33081	CB	LYS	B	75	174.697	158.719	-27.375	1.00	119.98	BS2
ATOM	33082	CG	LYS	B	75	175.862	159.554	-26.873	1.00	119.98	BS2
ATOM	33083	CD	LYS	B	75	175.435	161.000	-26.646	1.00	119.98	BS2
ATOM	33084	CE	LYS	B	75	176.530	161.821	-25.988	1.00	119.98	BS2
ATOM	33085	NZ	LYS	B	75	177.765	161.877	-26.819	1.00	119.98	BS2
ATOM	33086	C	LYS	B	75	172.508	159.914	-27.189	1.00	101.98	BS2
ATOM	33087	O	LYS	B	75	172.525	161.092	-26.834	1.00	101.98	BS2
ATOM	33088	N	GLN	B	76	171.710	159.471	-28.152	1.00	98.51	BS2
ATOM	33089	CA	GLN	B	76	170.784	160.358	-28.847	1.00	98.51	BS2
ATOM	33090	CB	GLN	B	76	169.949	159.547	-29.839	1.00	123.18	BS2
ATOM	33091	CG	GLN	B	76	170.330	159.751	-31.289	1.00	123.18	BS2
ATOM	33092	CD	GLN	B	76	169.895	161.104	-31.817	1.00	123.18	BS2
ATOM	33093	OE1	GLN	B	76	170.412	162.141	-31.402	1.00	123.18	BS2
ATOM	33094	NE2	GLN	B	76	168.934	161.101	-32.735	1.00	123.18	BS2
ATOM	33095	C	GLN	B	76	169.850	161.119	-27.896	1.00	98.51	BS2
ATOM	33096	O	GLN	B	76	169.016	161.910	-28.337	1.00	98.51	BS2
ATOM	33097	N	ALA	B	77	169.992	160.882	-26.595	1.00	65.17	BS2
ATOM	33098	CA	ALA	B	77	169.152	161.534	-25.593	1.00	65.17	BS2
ATOM	33099	CB	ALA	B	77	167.892	160.722	-25.363	1.00	56.00	BS2
ATOM	33100	C	ALA	B	77	169.903	161.663	-24.283	1.00	65.17	BS2
ATOM	33101	O	ALA	B	77	169.352	162.112	-23.280	1.00	65.17	BS2

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ATOM	33102	N	GLN	B	78	171.164	161.256	-24.295	1.00	72.70	BS2
ATOM	33103	CA	GLN	B	78	171.973	161.305	-23.096	1.00	72.70	BS2
ATOM	33104	CB	GLN	B	78	173.405	160.882	-23.414	1.00	100.65	BS2
ATOM	33105	CG	GLN	B	78	174.166	160.440	-22.189	1.00	100.65	BS2
ATOM	33106	CD	GLN	B	78	175.540	159.909	-22.516	1.00	100.65	BS2
ATOM	33107	OE1	GLN	B	78	176.379	160.627	-23.053	1.00	100.65	BS2
ATOM	33108	NE2	GLN	B	78	175.780	158.641	-22.192	1.00	100.65	BS2
ATOM	33109	C	GLN	B	78	171.951	162.691	-22.462	1.00	72.70	BS2
ATOM	33110	O	GLN	B	78	171.767	162.819	-21.259	1.00	72.70	BS2
ATOM	33111	N	ASP	B	79	172.112	163.738	-23.260	1.00	84.34	BS2
ATOM	33112	CA	ASP	B	79	172.113	165.085	-22.702	1.00	84.34	BS2
ATOM	33113	CB	ASP	B	79	172.801	166.046	-23.665	1.00	121.91	BS2
ATOM	33114	CG	ASP	B	79	174.263	165.723	-23.845	1.00	121.91	BS2
ATOM	33115	OD1	ASP	B	79	175.004	165.777	-22.840	1.00	121.91	BS2
ATOM	33116	OD2	ASP	B	79	174.670	165.407	-24.982	1.00	121.91	BS2
ATOM	33117	C	ASP	B	79	170.727	165.605	-22.350	1.00	84.34	BS2
ATOM	33118	O	ASP	B	79	170.514	166.116	-21.251	1.00	84.34	BS2
ATOM	33119	N	ILE	B	80	169.789	165.471	-23.283	1.00	81.71	BS2
ATOM	33120	CA	ILE	B	80	168.416	165.930	-23.074	1.00	81.71	BS2
ATOM	33121	CB	ILE	B	80	167.476	165.388	-24.181	1.00	71.37	BS2
ATOM	33122	CG2	ILE	B	80	166.015	165.545	-23.779	1.00	71.37	BS2
ATOM	33123	CG1	ILE	B	80	167.754	166.130	-25.488	1.00	71.37	BS2
ATOM	33124	CD1	ILE	B	80	166.948	165.617	-26.647	1.00	71.37	BS2
ATOM	33125	C	ILE	B	80	167.875	165.532	-21.705	1.00	81.71	BS2
ATOM	33126	O	ILE	B	80	167.082	166.260	-21.108	1.00	81.71	BS2
ATOM	33127	N	VAL	B	81	168.299	164.379	-21.207	1.00	54.41	BS2
ATOM	33128	CA	VAL	B	81	167.848	163.943	-19.900	1.00	54.41	BS2
ATOM	33129	CB	VAL	B	81	168.244	162.490	-19.623	1.00	49.99	BS2
ATOM	33130	CG1	VAL	B	81	168.169	162.203	-18.117	1.00	49.99	BS2
ATOM	33131	CG2	VAL	B	81	167.319	161.557	-20.403	1.00	49.99	BS2
ATOM	33132	C	VAL	B	81	168.432	164.842	-18.820	1.00	54.41	BS2
ATOM	33133	O	VAL	B	81	167.691	165.385	-18.007	1.00	54.41	BS2
ATOM	33134	N	ARG	B	82	169.751	165.000	-18.801	1.00	66.16	BS2
ATOM	33135	CA	ARG	B	82	170.365	165.862	-17.802	1.00	66.16	BS2
ATOM	33136	CB	ARG	B	82	171.794	166.230	-18.200	1.00	109.27	BS2
ATOM	33137	CG	ARG	B	82	172.224	167.603	-17.705	1.00	109.27	BS2
ATOM	33138	CD	ARG	B	82	173.709	167.667	-17.475	1.00	109.27	BS2
ATOM	33139	NE	ARG	B	82	174.112	166.693	-16.467	1.00	109.27	BS2
ATOM	33140	CZ	ARG	B	82	175.346	166.575	-15.987	1.00	109.27	BS2
ATOM	33141	NH1	ARG	B	82	176.312	167.373	-16.423	1.00	109.27	BS2
ATOM	33142	NH2	ARG	B	82	175.618	165.657	-15.069	1.00	109.27	BS2
ATOM	33143	C	ARG	B	82	169.528	167.132	-17.676	1.00	66.16	BS2
ATOM	33144	O	ARG	B	82	169.060	167.474	-16.592	1.00	66.16	BS2
ATOM	33145	N	MET	B	83	169.332	167.827	-18.788	1.00	70.02	BS2
ATOM	33146	CA	MET	B	83	168.538	169.049	-18.781	1.00	70.02	BS2
ATOM	33147	CB	MET	B	83	168.181	169.443	-20.215	1.00	123.32	BS2
ATOM	33148	CG	MET	B	83	169.373	169.822	-21.060	1.00	123.32	BS2
ATOM	33149	SD	MET	B	83	170.148	171.315	-20.450	1.00	123.32	BS2
ATOM	33150	CE	MET	B	83	169.235	172.557	-21.363	1.00	123.32	BS2
ATOM	33151	C	MET	B	83	167.250	168.883	-17.971	1.00	70.02	BS2
ATOM	33152	O	MET	B	83	167.183	169.255	-16.797	1.00	70.02	BS2
ATOM	33153	N	GLU	B	84	166.237	168.316	-18.620	1.00	63.26	BS2
ATOM	33154	CA	GLU	B	84	164.932	168.090	-18.018	1.00	63.26	BS2
ATOM	33155	CB	GLU	B	84	164.102	167.178	-18.922	1.00	102.09	BS2
ATOM	33156	CG	GLU	B	84	164.005	167.685	-20.335	1.00	102.09	BS2
ATOM	33157	CD	GLU	B	84	163.761	169.178	-20.377	1.00	102.09	BS2
ATOM	33158	OE1	GLU	B	84	162.660	169.619	-19.983	1.00	102.09	BS2
ATOM	33159	OE2	GLU	B	84	164.683	169.911	-20.790	1.00	102.09	BS2
ATOM	33160	C	GLU	B	84	164.972	167.505	-16.610	1.00	63.26	BS2
ATOM	33161	O	GLU	B	84	164.174	167.890	-15.749	1.00	63.26	BS2
ATOM	33162	N	ALA	B	85	165.893	166.576	-16.374	1.00	61.61	BS2
ATOM	33163	CA	ALA	B	85	166.008	165.940	-15.065	1.00	61.61	BS2
ATOM	33164	CB	ALA	B	85	167.071	164.850	-15.106	1.00	110.90	BS2
ATOM	33165	C	ALA	B	85	166.324	166.943	-13.961	1.00	61.61	BS2
ATOM	33166	O	ALA	B	85	165.692	166.923	-12.910	1.00	61.61	BS2
ATOM	33167	N	GLU	B	86	167.305	167.809	-14.204	1.00	68.93	BS2
ATOM	33168	CA	GLU	B	86	167.711	168.822	-13.231	1.00	68.93	BS2
ATOM	33169	CB	GLU	B	86	169.057	169.430	-13.615	1.00	123.50	BS2
ATOM	33170	CG	GLU	B	86	170.166	168.430	-13.850	1.00	123.50	BS2
ATOM	33171	CD	GLU	B	86	171.372	169.063	-14.522	1.00	123.50	BS2
ATOM	33172	OE1	GLU	B	86	171.223	169.591	-15.649	1.00	123.50	BS2
ATOM	33173	OE2	GLU	B	86	172.468	169.035	-13.924	1.00	123.50	BS2
ATOM	33174	C	GLU	B	86	166.670	169.916	-13.255	1.00	68.93	BS2
ATOM	33175	O	GLU	B	86	166.493	170.643	-12.281	1.00	68.93	BS2
ATOM	33176	N	ARG	B	87	165.990	170.022	-14.390	1.00	74.78	BS2
ATOM	33177	CA	ARG	B	87	164.954	171.021	-14.595	1.00	74.78	BS2
ATOM	33178	CB	ARG	B	87	164.421	170.914	-16.021	1.00	82.46	BS2

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ATOM	33179	CG	ARG	B	87	164.453	172.217	-16.759	1.00	82.46	BS2
ATOM	33180	CD	ARG	B	87	163.101	172.863	-16.757	1.00	82.46	BS2
ATOM	33181	NE	ARG	B	87	162.252	172.253	-17.769	1.00	82.46	BS2
ATOM	33182	CZ	ARG	B	87	161.043	172.697	-18.095	1.00	82.46	BS2
ATOM	33183	NH1	ARG	B	87	160.535	173.760	-17.479	1.00	82.46	BS2
ATOM	33184	NH2	ARG	B	87	160.349	172.087	-19.053	1.00	82.46	BS2
ATOM	33185	C	ARG	B	87	163.820	170.859	-13.586	1.00	74.78	BS2
ATOM	33186	O	ARG	B	87	162.866	171.635	-13.575	1.00	74.78	BS2
ATOM	33187	N	ALA	B	88	163.937	169.834	-12.749	1.00	67.24	BS2
ATOM	33188	CA	ALA	B	88	162.977	169.530	-11.690	1.00	67.24	BS2
ATOM	33189	CB	ALA	B	88	161.833	168.710	-12.233	1.00	8.34	BS2
ATOM	33190	C	ALA	B	88	163.802	168.712	-10.706	1.00	67.24	BS2
ATOM	33191	O	ALA	B	88	164.522	167.811	-11.121	1.00	67.24	BS2
ATOM	33192	N	GLY	B	89	163.716	169.036	-9.419	1.00	83.91	BS2
ATOM	33193	CA	GLY	B	89	164.502	168.347	-8.402	1.00	83.91	BS2
ATOM	33194	C	GLY	B	89	164.789	166.864	-8.580	1.00	83.91	BS2
ATOM	33195	O	GLY	B	89	165.422	166.241	-7.723	1.00	83.91	BS2
ATOM	33196	N	MET	B	90	164.334	166.301	-9.693	1.00	74.74	BS2
ATOM	33197	CA	MET	B	90	164.500	164.890	-10.004	1.00	74.74	BS2
ATOM	33198	CB	MET	B	90	163.582	164.535	-11.173	1.00	84.38	BS2
ATOM	33199	CG	MET	B	90	162.175	165.047	-10.964	1.00	84.38	BS2
ATOM	33200	SD	MET	B	90	161.581	164.533	-9.347	1.00	84.38	BS2
ATOM	33201	CE	MET	B	90	160.220	163.547	-9.830	1.00	84.38	BS2
ATOM	33202	C	MET	B	90	165.924	164.422	-10.311	1.00	74.74	BS2
ATOM	33203	O	MET	B	90	166.770	165.204	-10.763	1.00	74.74	BS2
ATOM	33204	N	PRO	B	91	166.202	163.130	-10.036	1.00	82.44	BS2
ATOM	33205	CD	PRO	B	91	165.390	162.314	-9.122	1.00	71.53	BS2
ATOM	33206	CA	PRO	B	91	167.494	162.476	-10.262	1.00	82.44	BS2
ATOM	33207	CB	PRO	B	91	167.564	161.421	-9.150	1.00	71.53	BS2
ATOM	33208	CG	PRO	B	91	166.448	161.786	-8.195	1.00	71.53	BS2
ATOM	33209	C	PRO	B	91	167.473	161.830	-11.648	1.00	82.44	BS2
ATOM	33210	O	PRO	B	91	166.418	161.733	-12.287	1.00	82.44	BS2
ATOM	33211	N	TYR	B	92	168.628	161.367	-12.106	1.00	63.21	BS2
ATOM	33212	CA	TYR	B	92	168.699	160.762	-13.427	1.00	63.21	BS2
ATOM	33213	CB	TYR	B	92	168.771	161.873	-14.485	1.00	76.84	BS2
ATOM	33214	CG	TYR	B	92	169.955	162.796	-14.267	1.00	76.84	BS2
ATOM	33215	CD1	TYR	B	92	171.256	162.361	-14.511	1.00	76.84	BS2
ATOM	33216	CE1	TYR	B	92	172.355	163.152	-14.210	1.00	76.84	BS2
ATOM	33217	CD2	TYR	B	92	169.787	164.063	-13.720	1.00	76.84	BS2
ATOM	33218	CE2	TYR	B	92	170.884	164.864	-13.412	1.00	76.84	BS2
ATOM	33219	CZ	TYR	B	92	172.164	164.396	-13.657	1.00	76.84	BS2
ATOM	33220	OH	TYR	B	92	173.253	165.155	-13.310	1.00	76.84	BS2
ATOM	33221	C	TYR	B	92	169.917	159.857	-13.577	1.00	63.21	BS2
ATOM	33222	O	TYR	B	92	170.876	159.936	-12.794	1.00	63.21	BS2
ATOM	33223	N	VAL	B	93	169.849	158.979	-14.574	1.00	61.12	BS2
ATOM	33224	CA	VAL	B	93	170.960	158.103	-14.920	1.00	61.12	BS2
ATOM	33225	CB	VAL	B	93	170.615	156.622	-14.803	1.00	59.46	BS2
ATOM	33226	CG1	VAL	B	93	171.556	155.809	-15.680	1.00	59.46	BS2
ATOM	33227	CG2	VAL	B	93	170.781	156.179	-13.351	1.00	59.46	BS2
ATOM	33228	C	VAL	B	93	171.264	158.463	-16.370	1.00	61.12	BS2
ATOM	33229	O	VAL	B	93	170.424	158.304	-17.271	1.00	61.12	BS2
ATOM	33230	N	ASN	B	94	172.474	158.973	-16.573	1.00	68.12	BS2
ATOM	33231	CA	ASN	B	94	172.915	159.432	-17.876	1.00	68.12	BS2
ATOM	33232	CB	ASN	B	94	173.427	160.858	-17.735	1.00	75.01	BS2
ATOM	33233	CG	ASN	B	94	172.956	161.725	-18.844	1.00	75.01	BS2
ATOM	33234	OD1	ASN	B	94	171.832	161.559	-19.320	1.00	75.01	BS2
ATOM	33235	ND2	ASN	B	94	173.793	162.663	-19.272	1.00	75.01	BS2
ATOM	33236	C	ASN	B	94	173.980	158.575	-18.539	1.00	68.12	BS2
ATOM	33237	O	ASN	B	94	173.869	158.236	-19.717	1.00	68.12	BS2
ATOM	33238	N	GLN	B	95	175.011	158.232	-17.777	1.00	81.94	BS2
ATOM	33239	CA	GLN	B	95	176.104	157.432	-18.298	1.00	81.94	BS2
ATOM	33240	CB	GLN	B	95	177.325	157.571	-17.393	1.00	122.03	BS2
ATOM	33241	CG	GLN	B	95	178.056	158.882	-17.597	1.00	122.03	BS2
ATOM	33242	CD	GLN	B	95	178.331	159.159	-19.066	1.00	122.03	BS2
ATOM	33243	OE1	GLN	B	95	177.416	159.457	-19.839	1.00	122.03	BS2
ATOM	33244	NE2	GLN	B	95	179.593	159.050	-19.461	1.00	122.03	BS2
ATOM	33245	C	GLN	B	95	175.764	155.966	-18.497	1.00	81.94	BS2
ATOM	33246	O	GLN	B	95	175.300	155.574	-19.570	1.00	81.94	BS2
ATOM	33247	N	ARG	B	96	176.008	155.155	-17.474	1.00	71.87	BS2
ATOM	33248	CA	ARG	B	96	175.720	153.736	-17.570	1.00	71.87	BS2
ATOM	33249	CB	ARG	B	96	177.015	152.934	-17.733	1.00	173.83	BS2
ATOM	33250	CG	ARG	B	96	177.098	152.212	-19.071	1.00	173.83	BS2
ATOM	33251	CD	ARG	B	96	176.885	153.191	-20.224	1.00	173.83	BS2
ATOM	33252	NE	ARG	B	96	176.598	152.526	-21.493	1.00	173.83	BS2
ATOM	33253	CZ	ARG	B	96	176.312	153.165	-22.624	1.00	173.83	BS2
ATOM	33254	NH1	ARG	B	96	176.276	154.492	-22.647	1.00	173.83	BS2
ATOM	33255	NH2	ARG	B	96	176.057	152.481	-23.731	1.00	173.83	BS2

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ATOM	33256	C	ARG	B	96	174.944	153.239	-16.371	1.00	71.87	BS2
ATOM	33257	O	ARG	B	96	175.421	153.281	-15.244	1.00	71.87	BS2
ATOM	33258	N	TRP	B	97	173.735	152.763	-16.625	1.00	45.55	BS2
ATOM	33259	CA	TRP	B	97	172.900	152.262	-15.555	1.00	45.55	BS2
ATOM	33260	CB	TRP	B	97	171.536	151.846	-16.107	1.00	80.13	BS2
ATOM	33261	CG	TRP	B	97	170.464	151.979	-15.081	1.00	80.13	BS2
ATOM	33262	CD2	TRP	B	97	169.909	150.932	-14.299	1.00	80.13	BS2
ATOM	33263	CE2	TRP	B	97	168.988	151.526	-13.395	1.00	80.13	BS2
ATOM	33264	CE3	TRP	B	97	170.097	149.548	-14.269	1.00	80.13	BS2
ATOM	33265	CD1	TRP	B	97	169.874	153.141	-14.640	1.00	80.13	BS2
ATOM	33266	NE1	TRP	B	97	168.988	152.874	-13.626	1.00	80.13	BS2
ATOM	33267	CZ2	TRP	B	97	168.263	150.781	-12.476	1.00	80.13	BS2
ATOM	33268	CZ3	TRP	B	97	169.376	148.806	-13.357	1.00	80.13	BS2
ATOM	33269	CH2	TRP	B	97	168.465	149.427	-12.468	1.00	80.13	BS2
ATOM	33270	C	TRP	B	97	173.551	151.068	-14.864	1.00	45.55	BS2
ATOM	33271	O	TRP	B	97	173.459	149.956	-15.367	1.00	45.55	BS2
ATOM	33272	N	LEU	B	98	174.198	151.293	-13.718	1.00	34.00	BS2
ATOM	33273	CA	LEU	B	98	174.847	150.210	-12.960	1.00	34.00	BS2
ATOM	33274	CB	LEU	B	98	175.500	150.749	-11.686	1.00	33.60	BS2
ATOM	33275	CG	LEU	B	98	176.178	152.120	-11.742	1.00	33.60	BS2
ATOM	33276	CD1	LEU	B	98	177.102	152.269	-10.546	1.00	33.60	BS2
ATOM	33277	CD2	LEU	B	98	176.959	152.273	-13.016	1.00	33.60	BS2
ATOM	33278	C	LEU	B	98	173.913	149.056	-12.560	1.00	34.00	BS2
ATOM	33279	O	LEU	B	98	172.687	149.185	-12.537	1.00	34.00	BS2
ATOM	33280	N	GLY	B	99	174.501	147.920	-12.226	1.00	58.68	BS2
ATOM	33281	CA	GLY	B	99	173.681	146.789	-11.859	1.00	58.68	BS2
ATOM	33282	C	GLY	B	99	173.199	146.864	-10.428	1.00	58.68	BS2
ATOM	33283	O	GLY	B	99	174.010	146.846	-9.492	1.00	58.68	BS2
ATOM	33284	N	GLY	B	100	171.880	146.954	-10.258	1.00	61.37	BS2
ATOM	33285	CA	GLY	B	100	171.300	147.004	-8.925	1.00	61.37	BS2
ATOM	33286	C	GLY	B	100	171.026	148.389	-8.375	1.00	61.37	BS2
ATOM	33287	O	GLY	B	100	170.820	148.549	-7.169	1.00	61.37	BS2
ATOM	33288	N	MET	B	101	171.032	149.393	-9.246	1.00	65.53	BS2
ATOM	33289	CA	MET	B	101	170.764	150.751	-8.801	1.00	65.53	BS2
ATOM	33290	CB	MET	B	101	170.611	151.688	-10.006	1.00	59.56	BS2
ATOM	33291	CG	MET	B	101	171.894	151.817	-10.840	1.00	59.56	BS2
ATOM	33292	SD	MET	B	101	172.221	153.473	-11.585	1.00	59.56	BS2
ATOM	33293	CE	MET	B	101	173.523	154.060	-10.491	1.00	59.56	BS2
ATOM	33294	C	MET	B	101	169.499	150.730	-7.933	1.00	65.53	BS2
ATOM	33295	O	MET	B	101	169.506	151.205	-6.801	1.00	65.53	BS2
ATOM	33296	N	LEU	B	102	168.420	150.159	-8.452	1.00	54.76	BS2
ATOM	33297	CA	LEU	B	102	167.186	150.057	-7.681	1.00	54.76	BS2
ATOM	33298	CB	LEU	B	102	165.997	149.870	-8.620	1.00	33.78	BS2
ATOM	33299	CG	LEU	B	102	165.468	151.132	-9.290	1.00	33.78	BS2
ATOM	33300	CD1	LEU	B	102	166.624	152.005	-9.743	1.00	33.78	BS2
ATOM	33301	CD2	LEU	B	102	164.576	150.743	-10.450	1.00	33.78	BS2
ATOM	33302	C	LEU	B	102	167.288	148.833	-6.780	1.00	54.76	BS2
ATOM	33303	O	LEU	B	102	167.289	148.914	-5.546	1.00	54.76	BS2
ATOM	33304	N	THR	B	103	167.372	147.695	-7.449	1.00	34.58	BS2
ATOM	33305	CA	THR	B	103	167.465	146.382	-6.847	1.00	34.58	BS2
ATOM	33306	CB	THR	B	103	167.742	145.370	-7.944	1.00	50.73	BS2
ATOM	33307	OG1	THR	B	103	166.518	145.112	-8.647	1.00	50.73	BS2
ATOM	33308	CG2	THR	B	103	168.321	144.102	-7.380	1.00	50.73	BS2
ATOM	33309	C	THR	B	103	168.486	146.219	-5.742	1.00	34.58	BS2
ATOM	33310	O	THR	B	103	168.253	145.482	-4.787	1.00	34.58	BS2
ATOM	33311	N	ASN	B	104	169.623	146.884	-5.872	1.00	58.32	BS2
ATOM	33312	CA	ASN	B	104	170.654	146.781	-4.856	1.00	58.32	BS2
ATOM	33313	CB	ASN	B	104	171.912	146.170	-5.452	1.00	57.00	BS2
ATOM	33314	CG	ASN	B	104	172.875	145.698	-4.395	1.00	57.00	BS2
ATOM	33315	OD1	ASN	B	104	172.732	146.028	-3.218	1.00	57.00	BS2
ATOM	33316	ND2	ASN	B	104	173.870	144.922	-4.808	1.00	57.00	BS2
ATOM	33317	C	ASN	B	104	170.958	148.174	-4.349	1.00	58.32	BS2
ATOM	33318	O	ASN	B	104	172.112	148.515	-4.074	1.00	58.32	BS2
ATOM	33319	N	PHE	B	105	169.898	148.969	-4.222	1.00	68.61	BS2
ATOM	33320	CA	PHE	B	105	169.972	150.362	-3.779	1.00	68.61	BS2
ATOM	33321	CB	PHE	B	105	168.562	150.908	-3.564	1.00	52.97	BS2
ATOM	33322	CG	PHE	B	105	168.510	152.395	-3.364	1.00	52.97	BS2
ATOM	33323	CD1	PHE	B	105	168.331	153.251	-4.448	1.00	52.97	BS2
ATOM	33324	CD2	PHE	B	105	168.612	152.943	-2.091	1.00	52.97	BS2
ATOM	33325	CE1	PHE	B	105	168.246	154.634	-4.271	1.00	52.97	BS2
ATOM	33326	CE2	PHE	B	105	168.530	154.320	-1.904	1.00	52.97	BS2
ATOM	33327	CZ	PHE	B	105	168.344	155.166	-2.999	1.00	52.97	BS2
ATOM	33328	C	PHE	B	105	170.800	150.658	-2.534	1.00	68.61	BS2
ATOM	33329	O	PHE	B	105	171.723	151.458	-2.590	1.00	68.61	BS2
ATOM	33330	N	LYS	B	106	170.475	150.033	-1.410	1.00	55.91	BS2
ATOM	33331	CA	LYS	B	106	171.224	150.329	-0.205	1.00	55.91	BS2
ATOM	33332	CB	LYS	B	106	170.887	149.381	0.945	1.00	112.15	BS2

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ATOM	33333	CG	LYS	B	106	171.683	149.725	2.209	1.00112.15	BS2
ATOM	33334	CD	LYS	B	106	171.435	148.766	3.366	1.00112.15	BS2
ATOM	33335	CE	LYS	B	106	170.067	148.974	4.001	1.00112.15	BS2
ATOM	33336	NZ	LYS	B	106	169.863	148.085	5.185	1.00112.15	BS2
ATOM	33337	C	LYS	B	106	172.703	150.258	-0.472	1.00 55.91	BS2
ATOM	33338	O	LYS	B	106	173.482	150.967	0.165	1.00 55.91	BS2
ATOM	33339	N	THR	B	107	173.106	149.416	-1.417	1.00 65.32	BS2
ATOM	33340	CA	THR	B	107	174.527	149.305	-1.714	1.00 65.32	BS2
ATOM	33341	CB	THR	B	107	174.893	147.883	-2.251	1.00 52.24	BS2
ATOM	33342	OG1	THR	B	107	174.733	146.909	-1.208	1.00 52.24	BS2
ATOM	33343	CG2	THR	B	107	176.338	147.841	-2.701	1.00 52.24	BS2
ATOM	33344	C	THR	B	107	175.016	150.400	-2.677	1.00 65.32	BS2
ATOM	33345	O	THR	B	107	175.855	151.220	-2.291	1.00 65.32	BS2
ATOM	33346	N	ILE	B	108	174.499	150.442	-3.905	1.00 51.09	BS2
ATOM	33347	CA	ILE	B	108	174.943	151.468	-4.846	1.00 51.09	BS2
ATOM	33348	CB	ILE	B	108	174.112	151.473	-6.139	1.00 68.12	BS2
ATOM	33349	CG2	ILE	B	108	174.312	152.779	-6.906	1.00 68.12	BS2
ATOM	33350	CG1	ILE	B	108	174.552	150.315	-7.023	1.00 68.12	BS2
ATOM	33351	CD1	ILE	B	108	173.904	150.322	-8.411	1.00 68.12	BS2
ATOM	33352	C	ILE	B	108	174.895	152.864	-4.240	1.00 51.09	BS2
ATOM	33353	O	ILE	B	108	175.562	153.778	-4.727	1.00 51.09	BS2
ATOM	33354	N	SER	B	109	174.110	153.032	-3.180	1.00 93.99	BS2
ATOM	33355	CA	SER	B	109	173.997	154.330	-2.519	1.00 93.99	BS2
ATOM	33356	CB	SER	B	109	172.872	154.314	-1.489	1.00118.09	BS2
ATOM	33357	OG	SER	B	109	173.286	153.620	-0.324	1.00118.09	BS2
ATOM	33358	C	SER	B	109	175.309	154.640	-1.808	1.00 93.99	BS2
ATOM	33359	O	SER	B	109	175.746	155.787	-1.761	1.00 93.99	BS2
ATOM	33360	N	GLN	B	110	175.929	153.609	-1.247	1.00 54.55	BS2
ATOM	33361	CA	GLN	B	110	177.191	153.784	-0.545	1.00 54.55	BS2
ATOM	33362	CB	GLN	B	110	177.712	152.447	-0.055	1.00 99.36	BS2
ATOM	33363	CG	GLN	B	110	176.866	151.859	1.032	1.00 99.36	BS2
ATOM	33364	CD	GLN	B	110	177.409	150.542	1.499	1.00 99.36	BS2
ATOM	33365	OE1	GLN	B	110	177.479	149.586	0.729	1.00 99.36	BS2
ATOM	33366	NE2	GLN	B	110	177.811	150.478	2.766	1.00 99.36	BS2
ATOM	33367	C	GLN	B	110	178.235	154.442	-1.425	1.00 54.55	BS2
ATOM	33368	O	GLN	B	110	179.204	155.017	-0.923	1.00 54.55	BS2
ATOM	33369	N	ARG	B	111	178.047	154.339	-2.738	1.00 92.18	BS2
ATOM	33370	CA	ARG	B	111	178.965	154.967	-3.678	1.00 92.18	BS2
ATOM	33371	CB	ARG	B	111	178.753	154.441	-5.096	1.00 67.74	BS2
ATOM	33372	CG	ARG	B	111	179.424	153.116	-5.392	1.00 67.74	BS2
ATOM	33373	CD	ARG	B	111	180.918	153.203	-5.201	1.00 67.74	BS2
ATOM	33374	NE	ARG	B	111	181.297	152.951	-3.816	1.00 67.74	BS2
ATOM	33375	CZ	ARG	B	111	182.543	153.035	-3.363	1.00 67.74	BS2
ATOM	33376	NH1	ARG	B	111	183.528	153.370	-4.192	1.00 67.74	BS2
ATOM	33377	NH2	ARG	B	111	182.807	152.772	-2.086	1.00 67.74	BS2
ATOM	33378	C	ARG	B	111	178.693	156.462	-3.655	1.00 92.18	BS2
ATOM	33379	O	ARG	B	111	179.560	157.267	-3.996	1.00 92.18	BS2
ATOM	33380	N	VAL	B	112	177.475	156.826	-3.259	1.00 86.97	BS2
ATOM	33381	CA	VAL	B	112	177.098	158.228	-3.174	1.00 86.97	BS2
ATOM	33382	CB	VAL	B	112	175.556	158.417	-3.211	1.00 62.94	BS2
ATOM	33383	CG1	VAL	B	112	175.216	159.885	-3.331	1.00 62.94	BS2
ATOM	33384	CG2	VAL	B	112	174.964	157.675	-4.403	1.00 62.94	BS2
ATOM	33385	C	VAL	B	112	177.670	158.785	-1.872	1.00 86.97	BS2
ATOM	33386	O	VAL	B	112	178.120	159.927	-1.832	1.00 86.97	BS2
ATOM	33387	N	HIS	B	113	177.675	157.982	-0.811	1.00 63.30	BS2
ATOM	33388	CA	HIS	B	113	178.235	158.451	0.451	1.00 63.30	BS2
ATOM	33389	CB	HIS	B	113	178.149	157.375	1.533	1.00109.71	BS2
ATOM	33390	CG	HIS	B	113	176.762	157.152	2.047	1.00109.71	BS2
ATOM	33391	CD2	HIS	B	113	176.031	156.020	2.187	1.00109.71	BS2
ATOM	33392	ND1	HIS	B	113	175.959	158.183	2.486	1.00109.71	BS2
ATOM	33393	CE1	HIS	B	113	174.792	157.697	2.870	1.00109.71	BS2
ATOM	33394	NE2	HIS	B	113	174.810	156.387	2.700	1.00109.71	BS2
ATOM	33395	C	HIS	B	113	179.688	158.840	0.234	1.00 63.30	BS2
ATOM	33396	O	HIS	B	113	180.160	159.837	0.781	1.00 63.30	BS2
ATOM	33397	N	ARG	B	114	180.389	158.051	-0.576	1.00 77.20	BS2
ATOM	33398	CA	ARG	B	114	181.795	158.303	-0.887	1.00 77.20	BS2
ATOM	33399	CB	ARG	B	114	182.378	157.135	-1.683	1.00108.18	BS2
ATOM	33400	CG	ARG	B	114	183.410	156.308	-0.934	1.00108.18	BS2
ATOM	33401	CD	ARG	B	114	184.747	157.031	-0.805	1.00108.18	BS2
ATOM	33402	NE	ARG	B	114	185.795	156.126	-0.331	1.00108.18	BS2
ATOM	33403	CZ	ARG	B	114	187.067	156.471	-0.148	1.00108.18	BS2
ATOM	33404	NH1	ARG	B	114	187.463	157.713	-0.397	1.00108.18	BS2
ATOM	33405	NH2	ARG	B	114	187.945	155.572	0.278	1.00108.18	BS2
ATOM	33406	C	ARG	B	114	181.990	159.591	-1.677	1.00 77.20	BS2
ATOM	33407	O	ARG	B	114	182.995	160.268	-1.508	1.00 77.20	BS2
ATOM	33408	N	LEU	B	115	181.044	159.924	-2.551	1.00 74.45	BS2
ATOM	33409	CA	LEU	B	115	181.152	161.148	-3.340	1.00 74.45	BS2

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ATOM	33410	CB	LEU	B	115	179.925	161.329	-4.236	1.00	66.14	BS2
ATOM	33411	CG	LEU	B	115	180.032	162.479	-5.244	1.00	66.14	BS2
ATOM	33412	CD1	LEU	B	115	180.607	161.935	-6.538	1.00	66.14	BS2
ATOM	33413	CD2	LEU	B	115	178.674	163.112	-5.506	1.00	66.14	BS2
ATOM	33414	C	LEU	B	115	181.216	162.302	-2.352	1.00	74.45	BS2
ATOM	33415	O	LEU	B	115	182.131	163.131	-2.386	1.00	74.45	BS2
ATOM	33416	N	GLU	B	116	180.227	162.332	-1.465	1.00	80.64	BS2
ATOM	33417	CA	GLU	B	116	180.120	163.350	-0.431	1.00	80.64	BS2
ATOM	33418	CB	GLU	B	116	178.917	163.035	0.453	1.00	89.34	BS2
ATOM	33419	CG	GLU	B	116	177.697	162.642	-0.364	1.00	89.34	BS2
ATOM	33420	CD	GLU	B	116	176.466	162.363	0.477	1.00	89.34	BS2
ATOM	33421	OE1	GLU	B	116	176.561	161.546	1.424	1.00	89.34	BS2
ATOM	33422	OE2	GLU	B	116	175.401	162.956	0.178	1.00	89.34	BS2
ATOM	33423	C	GLU	B	116	181.398	163.335	0.393	1.00	80.64	BS2
ATOM	33424	O	GLU	B	116	182.080	164.353	0.531	1.00	80.64	BS2
ATOM	33425	N	GLU	B	117	181.721	162.160	0.922	1.00	84.52	BS2
ATOM	33426	CA	GLU	B	117	182.916	161.974	1.729	1.00	84.52	BS2
ATOM	33427	CB	GLU	B	117	183.086	160.495	2.072	1.00	141.94	BS2
ATOM	33428	CG	GLU	B	117	184.371	160.177	2.811	1.00	141.94	BS2
ATOM	33429	CD	GLU	B	117	184.504	158.703	3.131	1.00	141.94	BS2
ATOM	33430	OE1	GLU	B	117	184.328	157.877	2.209	1.00	141.94	BS2
ATOM	33431	OE2	GLU	B	117	184.791	158.372	4.302	1.00	141.94	BS2
ATOM	33432	C	GLU	B	117	184.182	162.494	1.045	1.00	84.52	BS2
ATOM	33433	O	GLU	B	117	185.106	162.945	1.721	1.00	84.52	BS2
ATOM	33434	N	LEU	B	118	184.237	162.434	-0.283	1.00	107.41	BS2
ATOM	33435	CA	LEU	B	118	185.419	162.914	-0.992	1.00	107.41	BS2
ATOM	33436	CB	LEU	B	118	185.621	162.174	-2.314	1.00	65.14	BS2
ATOM	33437	CG	LEU	B	118	186.030	160.700	-2.210	1.00	65.14	BS2
ATOM	33438	CD1	LEU	B	118	186.505	160.217	-3.572	1.00	65.14	BS2
ATOM	33439	CD2	LEU	B	118	187.137	160.521	-1.178	1.00	65.14	BS2
ATOM	33440	C	LEU	B	118	185.354	164.399	-1.261	1.00	107.41	BS2
ATOM	33441	O	LEU	B	118	186.321	165.117	-1.014	1.00	107.41	BS2
ATOM	33442	N	GLU	B	119	184.221	164.864	-1.770	1.00	69.69	BS2
ATOM	33443	CA	GLU	B	119	184.071	166.287	-2.050	1.00	69.69	BS2
ATOM	33444	CB	GLU	B	119	182.621	166.596	-2.414	1.00	144.77	BS2
ATOM	33445	CG	GLU	B	119	182.138	165.840	-3.636	1.00	144.77	BS2
ATOM	33446	CD	GLU	B	119	180.632	165.873	-3.781	1.00	144.77	BS2
ATOM	33447	OE1	GLU	B	119	179.939	165.481	-2.818	1.00	144.77	BS2
ATOM	33448	OE2	GLU	B	119	180.140	166.283	-4.856	1.00	144.77	BS2
ATOM	33449	C	GLU	B	119	184.488	167.072	-0.805	1.00	69.69	BS2
ATOM	33450	O	GLU	B	119	184.981	168.200	-0.898	1.00	69.69	BS2
ATOM	33451	N	ALA	B	120	184.304	166.445	0.356	1.00	143.60	BS2
ATOM	33452	CA	ALA	B	120	184.651	167.043	1.641	1.00	143.60	BS2
ATOM	33453	CB	ALA	B	120	184.178	166.151	2.772	1.00	79.36	BS2
ATOM	33454	C	ALA	B	120	186.149	167.279	1.768	1.00	143.60	BS2
ATOM	33455	O	ALA	B	120	186.575	168.352	2.192	1.00	143.60	BS2
ATOM	33456	N	LEU	B	121	186.945	166.273	1.415	1.00	100.56	BS2
ATOM	33457	CA	LEU	B	121	188.399	166.394	1.490	1.00	100.56	BS2
ATOM	33458	CB	LEU	B	121	189.064	165.019	1.380	1.00	124.36	BS2
ATOM	33459	CG	LEU	B	121	188.976	164.111	2.610	1.00	124.36	BS2
ATOM	33460	CD1	LEU	B	121	189.765	162.831	2.350	1.00	124.36	BS2
ATOM	33461	CD2	LEU	B	121	189.524	164.842	3.833	1.00	124.36	BS2
ATOM	33462	C	LEU	B	121	188.950	167.317	0.407	1.00	100.56	BS2
ATOM	33463	O	LEU	B	121	189.844	168.124	0.664	1.00	100.56	BS2
ATOM	33464	N	PHE	B	122	188.424	167.195	-0.805	1.00	114.03	BS2
ATOM	33465	CA	PHE	B	122	188.872	168.045	-1.896	1.00	114.03	BS2
ATOM	33466	CB	PHE	B	122	188.549	167.392	-3.245	1.00	114.95	BS2
ATOM	33467	CG	PHE	B	122	189.506	166.292	-3.635	1.00	114.95	BS2
ATOM	33468	CD1	PHE	B	122	189.961	165.370	-2.693	1.00	114.95	BS2
ATOM	33469	CD2	PHE	B	122	189.931	166.161	-4.954	1.00	114.95	BS2
ATOM	33470	CE1	PHE	B	122	190.826	164.334	-3.061	1.00	114.95	BS2
ATOM	33471	CE2	PHE	B	122	190.795	165.128	-5.331	1.00	114.95	BS2
ATOM	33472	CZ	PHE	B	122	191.243	164.213	-4.383	1.00	114.95	BS2
ATOM	33473	C	PHE	B	122	188.182	169.400	-1.770	1.00	114.03	BS2
ATOM	33474	O	PHE	B	122	187.339	169.767	-2.592	1.00	114.03	BS2
ATOM	33475	N	ALA	B	123	188.553	170.124	-0.717	1.00	152.02	BS2
ATOM	33476	CA	ALA	B	123	188.011	171.446	-0.413	1.00	152.02	BS2
ATOM	33477	CB	ALA	B	123	186.516	171.498	-0.747	1.00	48.37	BS2
ATOM	33478	C	ALA	B	123	188.225	171.737	1.072	1.00	152.02	BS2
ATOM	33479	O	ALA	B	123	187.795	172.775	1.579	1.00	152.02	BS2
ATOM	33480	N	SER	B	124	188.901	170.815	1.755	1.00	106.12	BS2
ATOM	33481	CA	SER	B	124	189.166	170.931	3.191	1.00	106.12	BS2
ATOM	33482	CB	SER	B	124	188.724	169.634	3.887	1.00	168.75	BS2
ATOM	33483	OG	SER	B	124	189.613	168.563	3.614	1.00	168.75	BS2
ATOM	33484	C	SER	B	124	190.646	171.234	3.493	1.00	106.12	BS2
ATOM	33485	O	SER	B	124	191.337	171.836	2.672	1.00	106.12	BS2
ATOM	33486	N	PRO	B	125	191.142	170.863	4.694	1.00	197.98	BS2

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ATOM	33487	CD	PRO	B	125	190.464	170.525	5.963	1.00175.85	BS2
ATOM	33488	CA	PRO	B	125	192.555	171.161	4.944	1.00197.98	BS2
ATOM	33489	CB	PRO	B	125	192.597	171.350	6.454	1.00175.85	BS2
ATOM	33490	CG	PRO	B	125	191.627	170.318	6.919	1.00175.85	BS2
ATOM	33491	C	PRO	B	125	193.439	170.005	4.496	1.00197.98	BS2
ATOM	33492	O	PRO	B	125	194.421	170.192	3.778	1.00197.98	BS2
ATOM	33493	N	GLU	B	126	193.064	168.807	4.927	1.00141.04	BS2
ATOM	33494	CA	GLU	B	126	193.791	167.587	4.614	1.00141.04	BS2
ATOM	33495	CB	GLU	B	126	193.006	166.394	5.145	1.00193.25	BS2
ATOM	33496	CG	GLU	B	126	192.639	166.523	6.608	1.00193.25	BS2
ATOM	33497	CD	GLU	B	126	191.676	165.451	7.050	1.00193.25	BS2
ATOM	33498	OE1	GLU	B	126	190.547	165.417	6.517	1.00193.25	BS2
ATOM	33499	OE2	GLU	B	126	192.046	164.642	7.926	1.00193.25	BS2
ATOM	33500	C	GLU	B	126	194.068	167.399	3.125	1.00141.04	BS2
ATOM	33501	O	GLU	B	126	194.785	166.474	2.741	1.00141.04	BS2
ATOM	33502	N	ILE	B	127	193.499	168.269	2.293	1.00180.79	BS2
ATOM	33503	CA	ILE	B	127	193.693	168.188	0.848	1.00180.79	BS2
ATOM	33504	CB	ILE	B	127	193.459	169.549	0.157	1.00109.46	BS2
ATOM	33505	CG2	ILE	B	127	193.368	169.350	-1.354	1.00109.46	BS2
ATOM	33506	CG1	ILE	B	127	192.170	170.191	0.664	1.00109.46	BS2
ATOM	33507	CD1	ILE	B	127	191.912	171.570	0.078	1.00109.46	BS2
ATOM	33508	C	ILE	B	127	195.127	167.767	0.556	1.00180.79	BS2
ATOM	33509	O	ILE	B	127	195.374	166.708	-0.019	1.00180.79	BS2
ATOM	33510	N	GLU	B	128	196.067	168.611	0.969	1.00154.56	BS2
ATOM	33511	CA	GLU	B	128	197.484	168.351	0.766	1.00154.56	BS2
ATOM	33512	CB	GLU	B	128	198.254	169.672	0.639	1.00111.55	BS2
ATOM	33513	CG	GLU	B	128	198.037	170.430	-0.678	1.00111.55	BS2
ATOM	33514	CD	GLU	B	128	196.601	170.902	-0.886	1.00111.55	BS2
ATOM	33515	OE1	GLU	B	128	196.078	171.656	-0.037	1.00111.55	BS2
ATOM	33516	OE2	GLU	B	128	195.996	170.523	-1.910	1.00111.55	BS2
ATOM	33517	C	GLU	B	128	198.069	167.516	1.903	1.00154.56	BS2
ATOM	33518	O	GLU	B	128	198.843	168.012	2.722	1.00154.56	BS2
ATOM	33519	N	GLU	B	129	197.678	166.246	1.949	1.00178.07	BS2
ATOM	33520	CA	GLU	B	129	198.169	165.314	2.959	1.00178.07	BS2
ATOM	33521	CB	GLU	B	129	197.190	165.201	4.127	1.00191.36	BS2
ATOM	33522	CG	GLU	B	129	197.416	166.221	5.223	1.00191.36	BS2
ATOM	33523	CD	GLU	B	129	196.745	165.824	6.524	1.00191.36	BS2
ATOM	33524	OE1	GLU	B	129	195.499	165.757	6.557	1.00191.36	BS2
ATOM	33525	OE2	GLU	B	129	197.467	165.572	7.512	1.00191.36	BS2
ATOM	33526	C	GLU	B	129	198.380	163.938	2.342	1.00178.07	BS2
ATOM	33527	O	GLU	B	129	197.633	163.529	1.452	1.00178.07	BS2
ATOM	33528	N	ARG	B	130	199.399	163.231	2.823	1.00123.36	BS2
ATOM	33529	CA	ARG	B	130	199.726	161.902	2.317	1.00123.36	BS2
ATOM	33530	CB	ARG	B	130	198.497	160.989	2.394	1.00173.00	BS2
ATOM	33531	CG	ARG	B	130	198.163	160.483	3.793	1.00173.00	BS2
ATOM	33532	CD	ARG	B	130	199.260	159.568	4.324	1.00173.00	BS2
ATOM	33533	NE	ARG	B	130	198.771	158.675	5.372	1.00173.00	BS2
ATOM	33534	CZ	ARG	B	130	199.501	157.724	5.946	1.00173.00	BS2
ATOM	33535	NH1	ARG	B	130	200.761	157.539	5.579	1.00173.00	BS2
ATOM	33536	NH2	ARG	B	130	198.965	156.946	6.876	1.00173.00	BS2
ATOM	33537	C	ARG	B	130	200.242	161.970	0.877	1.00123.36	BS2
ATOM	33538	O	ARG	B	130	199.960	162.925	0.147	1.00123.36	BS2
ATOM	33539	N	PRO	B	131	201.002	160.948	0.447	1.00161.46	BS2
ATOM	33540	CD	PRO	B	131	201.181	159.626	1.072	1.00168.89	BS2
ATOM	33541	CA	PRO	B	131	201.534	160.948	-0.918	1.00161.46	BS2
ATOM	33542	CB	PRO	B	131	202.149	159.555	-1.051	1.00168.89	BS2
ATOM	33543	CG	PRO	B	131	201.308	158.724	-0.133	1.00168.89	BS2
ATOM	33544	C	PRO	B	131	200.456	161.211	-1.959	1.00161.46	BS2
ATOM	33545	O	PRO	B	131	199.323	160.754	-1.818	1.00161.46	BS2
ATOM	33546	N	LYS	B	132	200.810	161.956	-2.999	1.00162.95	BS2
ATOM	33547	CA	LYS	B	132	199.862	162.260	-4.056	1.00162.95	BS2
ATOM	33548	CB	LYS	B	132	200.481	163.211	-5.071	1.00124.81	BS2
ATOM	33549	CG	LYS	B	132	201.004	164.477	-4.448	1.00124.81	BS2
ATOM	33550	CD	LYS	B	132	201.428	165.468	-5.502	1.00124.81	BS2
ATOM	33551	CE	LYS	B	132	201.990	166.719	-4.861	1.00124.81	BS2
ATOM	33552	NZ	LYS	B	132	202.299	167.758	-5.878	1.00124.81	BS2
ATOM	33553	C	LYS	B	132	199.437	160.975	-4.743	1.00162.95	BS2
ATOM	33554	O	LYS	B	132	198.536	160.981	-5.581	1.00162.95	BS2
ATOM	33555	N	LYS	B	133	200.092	159.872	-4.385	1.00197.98	BS2
ATOM	33556	CA	LYS	B	133	199.759	158.569	-4.950	1.00197.98	BS2
ATOM	33557	CB	LYS	B	133	200.809	157.522	-4.556	1.00168.53	BS2
ATOM	33558	CG	LYS	B	133	202.168	157.728	-5.223	1.00168.53	BS2
ATOM	33559	CD	LYS	B	133	203.079	156.518	-5.050	1.00168.53	BS2
ATOM	33560	CE	LYS	B	133	204.367	156.678	-5.850	1.00168.53	BS2
ATOM	33561	NZ	LYS	B	133	205.237	155.471	-5.774	1.00168.53	BS2
ATOM	33562	C	LYS	B	133	198.380	158.173	-4.425	1.00197.98	BS2
ATOM	33563	O	LYS	B	133	197.955	157.022	-4.531	1.00197.98	BS2

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ATOM	33564	N	GLU	B	134	197.700	159.162	-3.853	1.00154.62	BS2
ATOM	33565	CA	GLU	B	134	196.362	159.022	-3.298	1.00154.62	BS2
ATOM	33566	CB	GLU	B	134	196.440	158.773	-1.799	1.00126.42	BS2
ATOM	33567	CG	GLU	B	134	197.145	157.489	-1.443	1.00126.42	BS2
ATOM	33568	CD	GLU	B	134	197.535	157.443	0.009	1.00126.42	BS2
ATOM	33569	OE1	GLU	B	134	198.398	158.251	0.413	1.00126.42	BS2
ATOM	33570	OE2	GLU	B	134	196.976	156.607	0.748	1.00126.42	BS2
ATOM	33571	C	GLU	B	134	195.686	160.355	-3.575	1.00154.62	BS2
ATOM	33572	O	GLU	B	134	194.480	160.425	-3.804	1.00154.62	BS2
ATOM	33573	N	GLN	B	135	196.488	161.415	-3.555	1.00102.70	BS2
ATOM	33574	CA	GLN	B	135	195.997	162.755	-3.839	1.00102.70	BS2
ATOM	33575	CB	GLN	B	135	197.064	163.800	-3.505	1.00163.55	BS2
ATOM	33576	CG	GLN	B	135	196.632	165.235	-3.772	1.00163.55	BS2
ATOM	33577	CD	GLN	B	135	197.683	166.248	-3.368	1.00163.55	BS2
ATOM	33578	OE1	GLN	B	135	198.815	166.207	-3.847	1.00163.55	BS2
ATOM	33579	NE2	GLN	B	135	197.311	167.169	-2.483	1.00163.55	BS2
ATOM	33580	C	GLN	B	135	195.702	162.768	-5.332	1.00102.70	BS2
ATOM	33581	O	GLN	B	135	195.311	163.787	-5.906	1.00102.70	BS2
ATOM	33582	N	VAL	B	136	195.911	161.607	-5.947	1.00134.48	BS2
ATOM	33583	CA	VAL	B	136	195.674	161.407	-7.366	1.00134.48	BS2
ATOM	33584	CB	VAL	B	136	196.991	161.141	-8.113	1.00147.67	BS2
ATOM	33585	CG1	VAL	B	136	196.709	160.819	-9.571	1.00147.67	BS2
ATOM	33586	CG2	VAL	B	136	197.891	162.361	-8.008	1.00147.67	BS2
ATOM	33587	C	VAL	B	136	194.725	160.223	-7.559	1.00134.48	BS2
ATOM	33588	O	VAL	B	136	193.855	160.263	-8.428	1.00134.48	BS2
ATOM	33589	N	ARG	B	137	194.889	159.175	-6.752	1.00149.47	BS2
ATOM	33590	CA	ARG	B	137	194.011	158.008	-6.842	1.00149.47	BS2
ATOM	33591	CB	ARG	B	137	194.479	156.886	-5.915	1.00126.80	BS2
ATOM	33592	CG	ARG	B	137	195.747	156.172	-6.329	1.00126.80	BS2
ATOM	33593	CD	ARG	B	137	195.902	154.848	-5.564	1.00126.80	BS2
ATOM	33594	NE	ARG	B	137	195.747	154.992	-4.113	1.00126.80	BS2
ATOM	33595	C2	ARG	B	137	194.582	154.990	-3.464	1.00126.80	BS2
ATOM	33596	NH1	ARG	B	137	193.442	154.846	-4.126	1.00126.80	BS2
ATOM	33597	NH2	ARG	B	137	194.556	155.136	-2.145	1.00126.80	BS2
ATOM	33598	C	ARG	B	137	192.598	158.411	-6.431	1.00149.47	BS2
ATOM	33599	O	ARG	B	137	191.616	158.059	-7.090	1.00149.47	BS2
ATOM	33600	N	LEU	B	138	192.508	159.141	-5.322	1.00 83.42	BS2
ATOM	33601	CA	LEU	B	138	191.227	159.608	-4.816	1.00 83.42	BS2
ATOM	33602	CB	LEU	B	138	191.403	160.231	-3.427	1.00 93.46	BS2
ATOM	33603	CG	LEU	B	138	192.104	159.355	-2.372	1.00 93.46	BS2
ATOM	33604	CD1	LEU	B	138	191.668	159.795	-0.979	1.00 93.46	BS2
ATOM	33605	CD2	LEU	B	138	191.761	157.881	-2.577	1.00 93.46	BS2
ATOM	33606	C	LEU	B	138	190.674	160.626	-5.803	1.00 83.42	BS2
ATOM	33607	O	LEU	B	138	189.467	160.693	-6.035	1.00 83.42	BS2
ATOM	33608	N	LYS	B	139	191.571	161.410	-6.389	1.00 89.02	BS2
ATOM	33609	CA	LYS	B	139	191.194	162.402	-7.388	1.00 89.02	BS2
ATOM	33610	CB	LYS	B	139	192.443	162.978	-8.050	1.00140.25	BS2
ATOM	33611	CG	LYS	B	139	192.548	164.484	-8.015	1.00140.25	BS2
ATOM	33612	CD	LYS	B	139	191.323	165.152	-8.600	1.00140.25	BS2
ATOM	33613	CE	LYS	B	139	191.576	166.639	-8.767	1.00140.25	BS2
ATOM	33614	NZ	LYS	B	139	192.171	167.243	-7.542	1.00140.25	BS2
ATOM	33615	C	LYS	B	139	190.358	161.692	-8.449	1.00 89.02	BS2
ATOM	33616	O	LYS	B	139	189.436	162.275	-9.014	1.00 89.02	BS2
ATOM	33617	N	HIS	B	140	190.702	160.428	-8.706	1.00182.44	BS2
ATOM	33618	CA	HIS	B	140	190.011	159.597	-9.692	1.00182.44	BS2
ATOM	33619	CB	HIS	B	140	190.817	158.333	-10.015	1.00140.16	BS2
ATOM	33620	CG	HIS	B	140	192.119	158.599	-10.704	1.00140.16	BS2
ATOM	33621	CD	HIS	B	140	193.376	158.172	-10.430	1.00140.16	BS2
ATOM	33622	ND1	HIS	B	140	192.218	159.380	-11.835	1.00140.16	BS2
ATOM	33623	CE1	HIS	B	140	193.479	159.425	-12.228	1.00140.16	BS2
ATOM	33624	NE2	HIS	B	140	194.202	158.700	-11.392	1.00140.16	BS2
ATOM	33625	C	HIS	B	140	188.631	159.179	-9.213	1.00182.44	BS2
ATOM	33626	O	HIS	B	140	187.646	159.379	-9.917	1.00182.44	BS2
ATOM	33627	N	GLU	B	141	188.560	158.580	-8.027	1.00110.53	BS2
ATOM	33628	CA	GLU	B	141	187.271	158.155	-7.493	1.00110.53	BS2
ATOM	33629	CB	GLU	B	141	187.368	157.873	-5.998	1.00 81.84	BS2
ATOM	33630	CG	GLU	B	141	187.951	156.524	-5.683	1.00 81.84	BS2
ATOM	33631	CD	GLU	B	141	187.898	156.207	-4.204	1.00 81.84	BS2
ATOM	33632	OE1	GLU	B	141	188.580	156.908	-3.428	1.00 81.84	BS2
ATOM	33633	OE2	GLU	B	141	187.175	155.262	-3.815	1.00 81.84	BS2
ATOM	33634	C	GLU	B	141	186.220	159.225	-7.744	1.00110.53	BS2
ATOM	33635	O	GLU	B	141	185.152	158.939	-8.284	1.00110.53	BS2
ATOM	33636	N	LEU	B	142	186.524	160.461	-7.360	1.00 86.46	BS2
ATOM	33637	CA	LEU	B	142	185.584	161.543	-7.582	1.00 86.46	BS2
ATOM	33638	CB	LEU	B	142	186.162	162.880	-7.119	1.00 99.32	BS2
ATOM	33639	CG	LEU	B	142	185.986	163.218	-5.636	1.00 99.32	BS2
ATOM	33640	CD1	LEU	B	142	186.518	164.612	-5.389	1.00 99.32	BS2

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ATOM	33641	CD2	LEU	B	142	184.517	163.156	-5.238	1.00	99.32	BS2
ATOM	33642	C	LEU	B	142	185.260	161.612	-9.061	1.00	86.46	BS2
ATOM	33643	O	LEU	B	142	184.091	161.671	-9.442	1.00	86.46	BS2
ATOM	33644	N	GLU	B	143	186.299	161.593	-9.891	1.00	101.52	BS2
ATOM	33645	CA	GLU	B	143	186.123	161.652	-11.339	1.00	101.52	BS2
ATOM	33646	CB	GLU	B	143	187.413	161.245	-12.061	1.00	144.78	BS2
ATOM	33647	CG	GLU	B	143	188.647	162.011	-11.637	1.00	144.78	BS2
ATOM	33648	CD	GLU	B	143	188.449	163.508	-11.707	1.00	144.78	BS2
ATOM	33649	OE1	GLU	B	143	188.165	164.018	-12.811	1.00	144.78	BS2
ATOM	33650	OE2	GLU	B	143	188.574	164.172	-10.655	1.00	144.78	BS2
ATOM	33651	C	GLU	B	143	185.002	160.721	-11.776	1.00	101.52	BS2
ATOM	33652	O	GLU	B	143	183.992	161.172	-12.319	1.00	101.52	BS2
ATOM	33653	N	ARG	B	144	185.183	159.424	-11.521	1.00	105.42	BS2
ATOM	33654	CA	ARG	B	144	184.196	158.423	-11.908	1.00	105.42	BS2
ATOM	33655	CB	ARG	B	144	184.771	157.006	-11.767	1.00	126.24	BS2
ATOM	33656	CG	ARG	B	144	184.845	156.458	-10.350	1.00	126.24	BS2
ATOM	33657	CD	ARG	B	144	184.201	155.076	-10.286	1.00	126.24	BS2
ATOM	33658	NE	ARG	B	144	184.670	154.210	-11.368	1.00	126.24	BS2
ATOM	33659	CZ	ARG	B	144	184.195	152.995	-11.621	1.00	126.24	BS2
ATOM	33660	NH1	ARG	B	144	183.229	152.481	-10.870	1.00	126.24	BS2
ATOM	33661	NH2	ARG	B	144	184.684	152.293	-12.633	1.00	126.24	BS2
ATOM	33662	C	ARG	B	144	182.887	158.531	-11.134	1.00	105.42	BS2
ATOM	33663	O	ARG	B	144	181.813	158.540	-11.740	1.00	105.42	BS2
ATOM	33664	N	LEU	B	145	182.968	158.608	-9.805	1.00	74.63	BS2
ATOM	33665	CA	LEU	B	145	181.762	158.729	-8.993	1.00	74.63	BS2
ATOM	33666	CB	LEU	B	145	182.103	159.095	-7.550	1.00	39.47	BS2
ATOM	33667	CG	LEU	B	145	182.859	158.039	-6.742	1.00	39.47	BS2
ATOM	33668	CD1	LEU	B	145	183.017	158.476	-5.289	1.00	39.47	BS2
ATOM	33669	CD2	LEU	B	145	182.093	156.741	-6.809	1.00	39.47	BS2
ATOM	33670	C	LEU	B	145	180.922	159.824	-9.616	1.00	74.63	BS2
ATOM	33671	O	LEU	B	145	179.729	159.643	-9.863	1.00	74.63	BS2
ATOM	33672	N	GLN	B	146	181.560	160.956	-9.889	1.00	61.66	BS2
ATOM	33673	CA	GLN	B	146	180.874	162.078	-10.505	1.00	61.66	BS2
ATOM	33674	CB	GLN	B	146	181.803	163.290	-10.577	1.00	104.22	BS2
ATOM	33675	CG	GLN	B	146	181.754	164.190	-9.355	1.00	104.22	BS2
ATOM	33676	CD	GLN	B	146	183.131	164.682	-8.953	1.00	104.22	BS2
ATOM	33677	OE1	GLN	B	146	184.033	164.787	-9.789	1.00	104.22	BS2
ATOM	33678	NE2	GLN	B	146	183.300	164.996	-7.671	1.00	104.22	BS2
ATOM	33679	C	GLN	B	146	180.376	161.725	-11.907	1.00	61.66	BS2
ATOM	33680	O	GLN	B	146	179.323	162.208	-12.341	1.00	61.66	BS2
ATOM	33681	N	LYS	B	147	181.127	160.883	-12.615	1.00	77.33	BS2
ATOM	33682	CA	LYS	B	147	180.749	160.490	-13.970	1.00	77.33	BS2
ATOM	33683	CB	LYS	B	147	181.874	159.678	-14.623	1.00	116.31	BS2
ATOM	33684	CG	LYS	B	147	183.147	160.469	-14.876	1.00	116.31	BS2
ATOM	33685	CD	LYS	B	147	184.281	159.587	-15.406	1.00	116.31	BS2
ATOM	33686	CE	LYS	B	147	185.582	160.384	-15.546	1.00	116.31	BS2
ATOM	33687	NZ	LYS	B	147	186.728	159.544	-15.988	1.00	116.31	BS2
ATOM	33688	C	LYS	B	147	179.462	159.673	-14.011	1.00	77.33	BS2
ATOM	33689	O	LYS	B	147	178.669	159.802	-14.945	1.00	77.33	BS2
ATOM	33690	N	TYR	B	148	179.252	158.850	-12.986	1.00	75.07	BS2
ATOM	33691	CA	TYR	B	148	178.088	157.968	-12.929	1.00	75.07	BS2
ATOM	33692	CB	TYR	B	148	178.570	156.545	-12.637	1.00	101.47	BS2
ATOM	33693	CG	TYR	B	148	179.655	156.108	-13.590	1.00	101.47	BS2
ATOM	33694	CD1	TYR	B	148	180.762	155.383	-13.147	1.00	101.47	BS2
ATOM	33695	CE1	TYR	B	148	181.789	155.038	-14.028	1.00	101.47	BS2
ATOM	33696	CD2	TYR	B	148	179.597	156.469	-14.934	1.00	101.47	BS2
ATOM	33697	CE2	TYR	B	148	180.610	156.133	-15.817	1.00	101.47	BS2
ATOM	33698	CZ	TYR	B	148	181.702	155.424	-15.366	1.00	101.47	BS2
ATOM	33699	OH	TYR	B	148	182.703	155.133	-16.264	1.00	101.47	BS2
ATOM	33700	C	TYR	B	148	177.009	158.354	-11.933	1.00	75.07	BS2
ATOM	33701	O	TYR	B	148	175.819	158.151	-12.181	1.00	75.07	BS2
ATOM	33702	N	LEU	B	149	177.425	158.918	-10.809	1.00	69.24	BS2
ATOM	33703	CA	LEU	B	149	176.473	159.291	-9.783	1.00	69.24	BS2
ATOM	33704	CB	LEU	B	149	177.009	158.850	-8.422	1.00	47.43	BS2
ATOM	33705	CG	LEU	B	149	177.362	157.364	-8.371	1.00	47.43	BS2
ATOM	33706	CD1	LEU	B	149	177.443	156.885	-6.924	1.00	47.43	BS2
ATOM	33707	CD2	LEU	B	149	176.291	156.582	-9.114	1.00	47.43	BS2
ATOM	33708	C	LEU	B	149	176.057	160.762	-9.733	1.00	69.24	BS2
ATOM	33709	O	LEU	B	149	175.538	161.228	-8.721	1.00	69.24	BS2
ATOM	33710	N	SER	B	150	176.259	161.502	-10.816	1.00	68.12	BS2
ATOM	33711	CA	SER	B	150	175.857	162.901	-10.794	1.00	68.12	BS2
ATOM	33712	CB	SER	B	150	176.198	163.597	-12.117	1.00	75.43	BS2
ATOM	33713	OG	SER	B	150	175.262	163.270	-13.129	1.00	75.43	BS2
ATOM	33714	C	SER	B	150	174.351	162.963	-10.538	1.00	68.12	BS2
ATOM	33715	O	SER	B	150	173.914	163.633	-9.613	1.00	68.12	BS2
ATOM	33716	N	GLY	B	151	173.570	162.248	-11.348	1.00	71.83	BS2
ATOM	33717	CA	GLY	B	151	172.119	162.239	-11.197	1.00	71.83	BS2

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ATOM	33718	C	GLY	B	151	171.596	161.323	-10.103	1.00	71.83	BS2
ATOM	33719	O	GLY	B	151	170.726	161.703	-9.312	1.00	71.83	BS2
ATOM	33720	N	PHE	B	152	172.120	160.105	-10.056	1.00	63.66	BS2
ATOM	33721	CA	PHE	B	152	171.711	159.156	-9.034	1.00	63.66	BS2
ATOM	33722	CB	PHE	B	152	172.378	157.814	-9.288	1.00	70.51	BS2
ATOM	33723	CG	PHE	B	152	171.856	156.710	-8.427	1.00	70.51	BS2
ATOM	33724	CD1	PHE	B	152	170.628	156.123	-8.702	1.00	70.51	BS2
ATOM	33725	CD2	PHE	B	152	172.602	156.242	-7.347	1.00	70.51	BS2
ATOM	33726	CE1	PHE	B	152	170.146	155.078	-7.917	1.00	70.51	BS2
ATOM	33727	CE2	PHE	B	152	172.133	155.195	-6.549	1.00	70.51	BS2
ATOM	33728	CZ	PHE	B	152	170.903	154.610	-6.836	1.00	70.51	BS2
ATOM	33729	C	PHE	B	152	172.167	159.716	-7.685	1.00	63.66	BS2
ATOM	33730	O	PHE	B	152	172.188	159.023	-6.670	1.00	63.66	BS2
ATOM	33731	N	ARG	B	153	172.542	160.986	-7.700	1.00	70.57	BS2
ATOM	33732	CA	ARG	B	153	173.020	161.681	-6.520	1.00	70.57	BS2
ATOM	33733	CB	ARG	B	153	173.581	163.041	-6.947	1.00118.07	BS2	
ATOM	33734	CG	ARG	B	153	174.900	163.449	-6.320	1.00118.07	BS2	
ATOM	33735	CD	ARG	B	153	174.737	163.805	-4.865	1.00118.07	BS2	
ATOM	33736	NE	ARG	B	153	176.005	164.213	-4.272	1.00118.07	BS2	
ATOM	33737	CZ	ARG	B	153	176.186	164.424	-2.971	1.00118.07	BS2	
ATOM	33738	NH1	ARG	B	153	175.177	164.266	-2.122	1.00118.07	BS2	
ATOM	33739	NH2	ARG	B	153	177.379	164.783	-2.517	1.00118.07	BS2	
ATOM	33740	C	ARG	B	153	171.867	161.887	-5.546	1.00	70.57	BS2
ATOM	33741	O	ARG	B	153	171.958	161.525	-4.369	1.00	70.57	BS2
ATOM	33742	N	LEU	B	154	170.783	162.461	-6.068	1.00	79.54	BS2
ATOM	33743	CA	LEU	B	154	169.581	162.791	-5.301	1.00	79.54	BS2
ATOM	33744	CB	LEU	B	154	168.560	163.443	-6.221	1.00	60.69	BS2
ATOM	33745	CG	LEU	B	154	169.181	164.451	-7.191	1.00	60.69	BS2
ATOM	33746	CD1	LEU	B	154	168.067	165.088	-8.006	1.00	60.69	BS2
ATOM	33747	CD2	LEU	B	154	169.986	165.508	-6.439	1.00	60.69	BS2
ATOM	33748	C	LEU	B	154	168.905	161.665	-4.532	1.00	79.54	BS2
ATOM	33749	O	LEU	B	154	168.970	161.639	-3.301	1.00	79.54	BS2
ATOM	33750	N	LEU	B	155	168.237	160.760	-5.250	1.00	70.23	BS2
ATOM	33751	CA	LEU	B	155	167.543	159.629	-4.625	1.00	70.23	BS2
ATOM	33752	CB	LEU	B	155	167.688	158.364	-5.475	1.00	48.67	BS2
ATOM	33753	CG	LEU	B	155	166.868	158.209	-6.760	1.00	48.67	BS2
ATOM	33754	CD1	LEU	B	155	167.097	156.803	-7.332	1.00	48.67	BS2
ATOM	33755	CD2	LEU	B	155	165.389	158.417	-6.468	1.00	48.67	BS2
ATOM	33756	C	LEU	B	155	168.035	159.300	-3.216	1.00	70.23	BS2
ATOM	33757	O	LEU	B	155	169.223	159.045	-3.017	1.00	70.23	BS2
ATOM	33758	N	LYS	B	156	167.129	159.311	-2.241	1.00	67.65	BS2
ATOM	33759	CA	LYS	B	156	167.497	158.972	-0.869	1.00	67.65	BS2
ATOM	33760	CB	LYS	B	156	167.103	160.097	0.098	1.00140.90	BS2	
ATOM	33761	CG	LYS	B	156	167.650	159.932	1.524	1.00140.90	BS2	
ATOM	33762	CD	LYS	B	156	166.741	159.069	2.403	1.00140.90	BS2	
ATOM	33763	CE	LYS	B	156	167.391	158.711	3.740	1.00140.90	BS2	
ATOM	33764	NZ	LYS	B	156	168.531	157.757	3.591	1.00140.90	BS2	
ATOM	33765	C	LYS	B	156	166.777	157.666	-0.515	1.00	67.65	BS2
ATOM	33766	O	LYS	B	156	167.078	157.018	0.488	1.00	67.65	BS2
ATOM	33767	N	ARG	B	157	165.828	157.281	-1.361	1.00	44.40	BS2
ATOM	33768	CA	ARG	B	157	165.073	156.045	-1.180	1.00	44.40	BS2
ATOM	33769	CB	ARG	B	157	163.838	156.295	-0.313	1.00	70.56	BS2
ATOM	33770	CG	ARG	B	157	162.720	157.037	-1.056	1.00	70.56	BS2
ATOM	33771	CD	ARG	B	157	162.226	158.242	-0.277	1.00	70.56	BS2
ATOM	33772	NE	ARG	B	157	161.620	157.873	1.000	1.00	70.56	BS2
ATOM	33773	CZ	ARG	B	157	160.315	157.908	1.250	1.00	70.56	BS2
ATOM	33774	NH1	ARG	B	157	159.457	158.297	0.315	1.00	70.56	BS2
ATOM	33775	NH2	ARG	B	157	159.867	157.553	2.443	1.00	70.56	BS2
ATOM	33776	C	ARG	B	157	164.633	155.655	-2.590	1.00	44.40	BS2
ATOM	33777	O	ARG	B	157	164.592	156.511	-3.486	1.00	44.40	BS2
ATOM	33778	N	LEU	B	158	164.301	154.383	-2.794	1.00	37.07	BS2
ATOM	33779	CA	LEU	B	158	163.858	153.939	-4.112	1.00	37.07	BS2
ATOM	33780	CB	LEU	B	158	163.264	152.546	-4.025	1.00	46.33	BS2
ATOM	33781	CG	LEU	B	158	164.329	151.487	-3.776	1.00	46.33	BS2
ATOM	33782	CD1	LEU	B	158	163.656	150.143	-3.660	1.00	46.33	BS2
ATOM	33783	CD2	LEU	B	158	165.345	151.480	-4.919	1.00	46.33	BS2
ATOM	33784	C	LEU	B	158	162.825	154.893	-4.692	1.00	37.07	BS2
ATOM	33785	O	LEU	B	158	161.869	155.250	-4.011	1.00	37.07	BS2
ATOM	33786	N	PRO	B	159	163.004	155.309	-5.963	1.00	42.26	BS2
ATOM	33787	CD	PRO	B	159	163.888	154.645	-6.936	1.00	69.20	BS2
ATOM	33788	CA	PRO	B	159	162.097	156.231	-6.657	1.00	42.26	BS2
ATOM	33789	CB	PRO	B	159	162.639	156.242	-8.077	1.00	69.20	BS2
ATOM	33790	CG	PRO	B	159	163.136	154.848	-8.233	1.00	69.20	BS2
ATOM	33791	C	PRO	B	159	160.666	155.721	-6.596	1.00	42.26	BS2
ATOM	33792	O	PRO	B	159	160.435	154.547	-6.313	1.00	42.26	BS2
ATOM	33793	N	ASP	B	160	159.706	156.597	-6.861	1.00	49.47	BS2
ATOM	33794	CA	ASP	B	160	158.302	156.207	-6.809	1.00	49.47	BS2

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ATOM	33795	CB	ASP	B	160	157.456	157.372	-6.290	1.00131.90	BS2
ATOM	33796	CG	ASP	B	160	157.885	157.825	-4.901	1.00131.90	BS2
ATOM	33797	OD1	ASP	B	160	157.642	157.077	-3.929	1.00131.90	BS2
ATOM	33798	OD2	ASP	B	160	158.478	158.921	-4.782	1.00131.90	BS2
ATOM	33799	C	ASP	B	160	157.847	155.794	-8.188	1.00 49.47	BS2
ATOM	33800	O	ASP	B	160	156.799	155.170	-8.353	1.00 49.47	BS2
ATOM	33801	N	ALA	B	161	158.652	156.153	-9.177	1.00 52.23	BS2
ATOM	33802	CA	ALA	B	161	158.370	155.822	-10.562	1.00 52.23	BS2
ATOM	33803	CB	ALA	B	161	157.378	156.801	-11.162	1.00 34.32	BS2
ATOM	33804	C	ALA	B	161	159.672	155.884	-11.325	1.00 52.23	BS2
ATOM	33805	O	ALA	B	161	160.737	156.117	-10.747	1.00 52.23	BS2
ATOM	33806	N	ILE	B	162	159.575	155.670	-12.628	1.00 49.02	BS2
ATOM	33807	CA	ILE	B	162	160.729	155.694	-13.501	1.00 49.02	BS2
ATOM	33808	CB	ILE	B	162	161.476	154.338	-13.482	1.00 48.89	BS2
ATOM	33809	CG2	ILE	B	162	162.214	154.098	-14.797	1.00 48.89	BS2
ATOM	33810	CG1	ILE	B	162	162.459	154.324	-12.317	1.00 48.89	BS2
ATOM	33811	CD1	ILE	B	162	163.315	153.089	-12.268	1.00 48.89	BS2
ATOM	33812	C	ILE	B	162	160.278	156.018	-14.907	1.00 49.02	BS2
ATOM	33813	O	ILE	B	162	159.397	155.353	-15.478	1.00 49.02	BS2
ATOM	33814	N	PHE	B	163	160.865	157.083	-15.435	1.00 80.08	BS2
ATOM	33815	CA	PHE	B	163	160.575	157.525	-16.780	1.00 80.08	BS2
ATOM	33816	CB	PHE	B	163	160.389	159.040	-16.841	1.00 79.56	BS2
ATOM	33817	CG	PHE	B	163	159.786	159.514	-18.121	1.00 79.56	BS2
ATOM	33818	CD1	PHE	B	163	159.235	160.777	-18.214	1.00 79.56	BS2
ATOM	33819	CD2	PHE	B	163	159.742	158.681	-19.235	1.00 79.56	BS2
ATOM	33820	CE1	PHE	B	163	158.639	161.207	-19.404	1.00 79.56	BS2
ATOM	33821	CE2	PHE	B	163	159.150	159.099	-20.431	1.00 79.56	BS2
ATOM	33822	CZ	PHE	B	163	158.597	160.364	-20.517	1.00 79.56	BS2
ATOM	33823	C	PHE	B	163	161.810	157.122	-17.539	1.00 80.08	BS2
ATOM	33824	O	PHE	B	163	162.872	157.723	-17.390	1.00 80.08	BS2
ATOM	33825	N	VAL	B	164	161.669	156.078	-18.336	1.00 59.90	BS2
ATOM	33826	CA	VAL	B	164	162.787	155.576	-19.102	1.00 59.90	BS2
ATOM	33827	CB	VAL	B	164	162.931	154.056	-18.884	1.00 41.83	BS2
ATOM	33828	CG1	VAL	B	164	162.115	153.283	-19.911	1.00 41.83	BS2
ATOM	33829	CG2	VAL	B	164	164.379	153.676	-18.911	1.00 41.83	BS2
ATOM	33830	C	VAL	B	164	162.588	155.897	-20.578	1.00 59.90	BS2
ATOM	33831	O	VAL	B	164	161.480	155.787	-21.114	1.00 59.90	BS2
ATOM	33832	N	VAL	B	165	163.666	156.317	-21.226	1.00109.64	BS2
ATOM	33833	CA	VAL	B	165	163.608	156.660	-22.635	1.00109.64	BS2
ATOM	33834	CB	VAL	B	165	164.892	157.323	-23.071	1.00 48.96	BS2
ATOM	33835	CG1	VAL	B	165	164.605	158.235	-24.245	1.00 48.96	BS2
ATOM	33836	CG2	VAL	B	165	165.499	158.095	-21.901	1.00 48.96	BS2
ATOM	33837	C	VAL	B	165	163.377	155.402	-23.463	1.00109.64	BS2
ATOM	33838	O	VAL	B	165	162.228	154.996	-23.647	1.00109.64	BS2
ATOM	33839	N	ASP	B	166	164.444	154.788	-23.979	1.00 74.44	BS2
ATOM	33840	CA	ASP	B	166	164.267	153.549	-24.745	1.00 74.44	BS2
ATOM	33841	CB	ASP	B	166	165.381	153.345	-25.779	1.00127.77	BS2
ATOM	33842	CG	ASP	B	166	165.098	152.172	-26.713	1.00127.77	BS2
ATOM	33843	OD1	ASP	B	166	164.057	152.198	-27.403	1.00127.77	BS2
ATOM	33844	OD2	ASP	B	166	165.909	151.224	-26.758	1.00127.77	BS2
ATOM	33845	C	ASP	B	166	164.275	152.393	-23.739	1.00 74.44	BS2
ATOM	33846	O	ASP	B	166	165.306	152.076	-23.126	1.00 74.44	BS2
ATOM	33847	N	PRO	B	167	163.117	151.742	-23.564	1.00 83.96	BS2
ATOM	33848	CD	PRO	B	167	161.932	151.854	-24.434	1.00 53.86	BS2
ATOM	33849	CA	PRO	B	167	162.973	150.629	-22.626	1.00 83.96	BS2
ATOM	33850	CB	PRO	B	167	161.486	150.316	-22.703	1.00 53.86	BS2
ATOM	33851	CG	PRO	B	167	161.192	150.561	-24.143	1.00 53.86	BS2
ATOM	33852	C	PRO	B	167	163.840	149.426	-22.954	1.00 83.96	BS2
ATOM	33853	O	PRO	B	167	164.388	148.792	-22.053	1.00 83.96	BS2
ATOM	33854	N	THR	B	168	163.967	149.112	-24.241	1.00 83.06	BS2
ATOM	33855	CA	THR	B	168	164.771	147.969	-24.648	1.00 83.06	BS2
ATOM	33856	CB	THR	B	168	164.681	147.714	-26.150	1.00 69.24	BS2
ATOM	33857	OG1	THR	B	168	163.306	147.733	-26.558	1.00 69.24	BS2
ATOM	33858	CG2	THR	B	168	165.283	146.355	-26.477	1.00 69.24	BS2
ATOM	33859	C	THR	B	168	166.219	148.231	-24.307	1.00 83.06	BS2
ATOM	33860	O	THR	B	168	166.844	147.468	-23.574	1.00 83.06	BS2
ATOM	33861	N	LYS	B	169	166.746	149.324	-24.843	1.00 73.64	BS2
ATOM	33862	CA	LYS	B	169	168.132	149.703	-24.601	1.00 73.64	BS2
ATOM	33863	CB	LYS	B	169	168.422	151.026	-25.322	1.00 89.61	BS2
ATOM	33864	CG	LYS	B	169	169.877	151.467	-25.338	1.00 89.61	BS2
ATOM	33865	CD	LYS	B	169	170.265	152.169	-24.050	1.00 89.61	BS2
ATOM	33866	CE	LYS	B	169	171.670	152.751	-24.131	1.00 89.61	BS2
ATOM	33867	NZ	LYS	B	169	172.721	151.707	-24.291	1.00 89.61	BS2
ATOM	33868	C	LYS	B	169	168.371	149.835	-23.096	1.00 73.64	BS2
ATOM	33869	O	LYS	B	169	169.511	149.773	-22.623	1.00 73.64	BS2
ATOM	33870	N	GLU	B	170	167.283	149.990	-22.346	1.00 60.67	BS2
ATOM	33871	CA	GLU	B	170	167.359	150.152	-20.901	1.00 60.67	BS2

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ATOM	33872	CB	GLU	B	170	166.791	151.511	-20.527	1.00	71.33	BS2
ATOM	33873	CG	GLU	B	170	167.773	152.395	-19.800	1.00	71.33	BS2
ATOM	33874	CD	GLU	B	170	168.929	152.854	-20.671	1.00	71.33	BS2
ATOM	33875	OE1	GLU	B	170	168.702	153.681	-21.598	1.00	71.33	BS2
ATOM	33876	OE2	GLU	B	170	170.066	152.380	-20.418	1.00	71.33	BS2
ATOM	33877	C	GLU	B	170	166.594	149.071	-20.156	1.00	60.67	BS2
ATOM	33878	O	GLU	B	170	166.073	149.309	-19.069	1.00	60.67	BS2
ATOM	33879	N	ALA	B	171	166.542	147.875	-20.725	1.00	68.01	BS2
ATOM	33880	CA	ALA	B	171	165.791	146.792	-20.105	1.00	68.01	BS2
ATOM	33881	CB	ALA	B	171	165.742	145.594	-21.030	1.00	42.71	BS2
ATOM	33882	C	ALA	B	171	166.275	146.364	-18.731	1.00	68.01	BS2
ATOM	33883	O	ALA	B	171	165.483	145.869	-17.929	1.00	68.01	BS2
ATOM	33884	N	ILE	B	172	167.559	146.532	-18.441	1.00	43.66	BS2
ATOM	33885	CA	ILE	B	172	168.027	146.134	-17.121	1.00	43.66	BS2
ATOM	33886	CB	ILE	B	172	169.545	146.192	-16.999	1.00	45.74	BS2
ATOM	33887	CG2	ILE	B	172	169.966	145.624	-15.660	1.00	45.74	BS2
ATOM	33888	CG1	ILE	B	172	170.188	145.390	-18.122	1.00	45.74	BS2
ATOM	33889	CD1	ILE	B	172	171.694	145.277	-18.000	1.00	45.74	BS2
ATOM	33890	C	ILE	B	172	167.432	147.078	-16.085	1.00	43.66	BS2
ATOM	33891	O	ILE	B	172	167.198	146.700	-14.937	1.00	43.66	BS2
ATOM	33892	N	ALA	B	173	167.194	148.321	-16.482	1.00	52.47	BS2
ATOM	33893	CA	ALA	B	173	166.610	149.263	-15.549	1.00	52.47	BS2
ATOM	33894	CB	ALA	B	173	166.620	150.657	-16.126	1.00	40.66	BS2
ATOM	33895	C	ALA	B	173	165.189	148.777	-15.353	1.00	52.47	BS2
ATOM	33896	O	ALA	B	173	164.802	148.376	-14.254	1.00	52.47	BS2
ATOM	33897	N	VAL	B	174	164.428	148.783	-16.440	1.00	35.13	BS2
ATOM	33898	CA	VAL	B	174	163.042	148.335	-16.393	1.00	35.13	BS2
ATOM	33899	CB	VAL	B	174	162.491	148.089	-17.808	1.00	20.72	BS2
ATOM	33900	CG1	VAL	B	174	161.114	147.400	-17.727	1.00	20.72	BS2
ATOM	33901	CG2	VAL	B	174	162.390	149.422	-18.549	1.00	20.72	BS2
ATOM	33902	C	VAL	B	174	162.830	147.062	-15.568	1.00	35.13	BS2
ATOM	33903	O	VAL	B	174	161.958	147.012	-14.691	1.00	35.13	BS2
ATOM	33904	N	ARG	B	175	163.616	146.033	-15.860	1.00	45.77	BS2
ATOM	33905	CA	ARG	B	175	163.492	144.790	-15.129	1.00	45.77	BS2
ATOM	33906	CB	ARG	B	175	164.621	143.839	-15.506	1.00	125.18	BS2
ATOM	33907	CG	ARG	B	175	164.593	142.510	-14.772	1.00	125.18	BS2
ATOM	33908	CD	ARG	B	175	165.770	141.678	-15.213	1.00	125.18	BS2
ATOM	33909	NE	ARG	B	175	165.785	141.553	-16.668	1.00	125.18	BS2
ATOM	33910	CZ	ARG	B	175	166.889	141.414	-17.397	1.00	125.18	BS2
ATOM	33911	NH1	ARG	B	175	168.076	141.385	-16.799	1.00	125.18	BS2
ATOM	33912	NH2	ARG	B	175	166.807	141.298	-18.721	1.00	125.18	BS2
ATOM	33913	C	ARG	B	175	163.537	145.087	-13.637	1.00	45.77	BS2
ATOM	33914	O	ARG	B	175	162.593	144.771	-12.921	1.00	45.77	BS2
ATOM	33915	N	GLU	B	176	164.621	145.708	-13.170	1.00	49.67	BS2
ATOM	33916	CA	GLU	B	176	164.755	146.015	-11.747	1.00	49.67	BS2
ATOM	33917	CB	GLU	B	176	165.977	146.904	-11.492	1.00	66.62	BS2
ATOM	33918	CG	GLU	B	176	167.269	146.124	-11.367	1.00	66.62	BS2
ATOM	33919	CD	GLU	B	176	168.419	146.955	-10.806	1.00	66.62	BS2
ATOM	33920	OE1	GLU	B	176	168.210	147.661	-9.795	1.00	66.62	BS2
ATOM	33921	OE2	GLU	B	176	169.538	146.896	-11.367	1.00	66.62	BS2
ATOM	33922	C	GLU	B	176	163.506	146.680	-11.182	1.00	49.67	BS2
ATOM	33923	O	GLU	B	176	162.986	146.263	-10.144	1.00	49.67	BS2
ATOM	33924	N	ALA	B	177	163.031	147.713	-11.871	1.00	42.29	BS2
ATOM	33925	CA	ALA	B	177	161.839	148.434	-11.449	1.00	42.29	BS2
ATOM	33926	CB	ALA	B	177	161.403	149.389	-12.557	1.00	37.15	BS2
ATOM	33927	C	ALA	B	177	160.744	147.403	-11.165	1.00	42.29	BS2
ATOM	33928	O	ALA	B	177	160.338	147.195	-10.020	1.00	42.29	BS2
ATOM	33929	N	ARG	B	178	160.286	146.768	-12.237	1.00	28.75	BS2
ATOM	33930	CA	ARG	B	178	159.277	145.723	-12.202	1.00	28.75	BS2
ATOM	33931	CB	ARG	B	178	159.445	144.851	-13.443	1.00	63.14	BS2
ATOM	33932	CG	ARG	B	178	158.236	144.711	-14.288	1.00	63.14	BS2
ATOM	33933	CD	ARG	B	178	158.027	145.937	-15.117	1.00	63.14	BS2
ATOM	33934	NE	ARG	B	178	156.844	145.781	-15.950	1.00	63.14	BS2
ATOM	33935	CZ	ARG	B	178	155.634	145.472	-15.481	1.00	63.14	BS2
ATOM	33936	NH1	ARG	B	178	155.437	145.286	-14.180	1.00	63.14	BS2
ATOM	33937	NH2	ARG	B	178	154.613	145.341	-16.315	1.00	63.14	BS2
ATOM	33938	C	ARG	B	178	159.360	144.811	-10.960	1.00	28.75	BS2
ATOM	33939	O	ARG	B	178	158.379	144.631	-10.246	1.00	28.75	BS2
ATOM	33940	N	LYS	B	179	160.522	144.204	-10.731	1.00	45.06	BS2
ATOM	33941	CA	LYS	B	179	160.708	143.299	-9.601	1.00	45.06	BS2
ATOM	33942	CB	LYS	B	179	162.126	142.719	-9.629	1.00	66.24	BS2
ATOM	33943	CG	LYS	B	179	162.458	141.851	-8.428	1.00	66.24	BS2
ATOM	33944	CD	LYS	B	179	163.836	141.238	-8.536	1.00	66.24	BS2
ATOM	33945	CE	LYS	B	179	163.906	140.286	-9.715	1.00	66.24	BS2
ATOM	33946	NZ	LYS	B	179	165.233	139.626	-9.801	1.00	66.24	BS2
ATOM	33947	C	LYS	B	179	160.460	144.018	-8.274	1.00	45.06	BS2
ATOM	33948	O	LYS	B	179	160.102	143.411	-7.257	1.00	45.06	BS2

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ATOM	33949	N	LEU	B	180	160.651	145.323	-8.285	1.00	46.56	BS2
ATOM	33950	CA	LEU	B	180	160.438	146.096	-7.082	1.00	46.56	BS2
ATOM	33951	CB	LEU	B	180	161.553	147.136	-6.965	1.00	37.41	BS2
ATOM	33952	CG	LEU	B	180	162.890	146.560	-6.504	1.00	37.41	BS2
ATOM	33953	CD1	LEU	B	180	163.949	147.652	-6.506	1.00	37.41	BS2
ATOM	33954	CD2	LEU	B	180	162.733	145.981	-5.104	1.00	37.41	BS2
ATOM	33955	C	LEU	B	180	159.046	146.759	-7.081	1.00	46.56	BS2
ATOM	33956	O	LEU	B	180	158.681	147.491	-6.155	1.00	46.56	BS2
ATOM	33957	N	PHE	B	181	158.265	146.467	-8.114	1.00	64.69	BS2
ATOM	33958	CA	PHE	B	181	156.937	147.039	-8.253	1.00	64.69	BS2
ATOM	33959	CB	PHE	B	181	156.046	146.687	-7.068	1.00	56.57	BS2
ATOM	33960	CG	PHE	B	181	155.823	145.224	-6.882	1.00	56.57	BS2
ATOM	33961	CD1	PHE	B	181	156.595	144.504	-5.978	1.00	56.57	BS2
ATOM	33962	CD2	PHE	B	181	154.823	144.566	-7.591	1.00	56.57	BS2
ATOM	33963	CE1	PHE	B	181	156.375	143.146	-5.775	1.00	56.57	BS2
ATOM	33964	CE2	PHE	B	181	154.591	143.205	-7.399	1.00	56.57	BS2
ATOM	33965	CZ	PHE	B	181	155.371	142.493	-6.486	1.00	56.57	BS2
ATOM	33966	C	PHE	B	181	157.077	148.544	-8.304	1.00	64.69	BS2
ATOM	33967	O	PHE	B	181	156.560	149.249	-7.449	1.00	64.69	BS2
ATOM	33968	N	ILE	B	182	157.796	149.041	-9.293	1.00	43.99	BS2
ATOM	33969	CA	ILE	B	182	157.958	150.473	-9.417	1.00	43.99	BS2
ATOM	33970	CB	ILE	B	182	159.435	150.877	-9.310	1.00	26.86	BS2
ATOM	33971	CG2	ILE	B	182	159.592	152.383	-9.569	1.00	26.86	BS2
ATOM	33972	CG1	ILE	B	182	159.970	150.512	-7.925	1.00	26.86	BS2
ATOM	33973	CD1	ILE	B	182	161.367	151.087	-7.660	1.00	26.86	BS2
ATOM	33974	C	ILE	B	182	157.410	150.914	-10.762	1.00	43.99	BS2
ATOM	33975	O	ILE	B	182	157.912	150.514	-11.803	1.00	43.99	BS2
ATOM	33976	N	PRO	B	183	156.364	151.747	-10.756	1.00	55.57	BS2
ATOM	33977	CD	PRO	B	183	155.767	152.427	-9.593	1.00	63.30	BS2
ATOM	33978	CA	PRO	B	183	155.764	152.228	-12.002	1.00	55.57	BS2
ATOM	33979	CB	PRO	B	183	155.030	153.482	-11.559	1.00	63.30	BS2
ATOM	33980	CG	PRO	B	183	154.548	153.089	-10.201	1.00	63.30	BS2
ATOM	33981	C	PRO	B	183	156.809	152.517	-13.067	1.00	55.57	BS2
ATOM	33982	O	PRO	B	183	157.838	153.140	-12.800	1.00	55.57	BS2
ATOM	33983	N	VAL	B	184	156.544	152.049	-14.276	1.00	43.48	BS2
ATOM	33984	CA	VAL	B	184	157.467	152.263	-15.371	1.00	43.48	BS2
ATOM	33985	CB	VAL	B	184	157.961	150.926	-15.960	1.00	52.18	BS2
ATOM	33986	CG1	VAL	B	184	158.699	151.175	-17.251	1.00	52.18	BS2
ATOM	33987	CG2	VAL	B	184	158.888	150.236	-14.977	1.00	52.18	BS2
ATOM	33988	C	VAL	B	184	156.791	153.058	-16.468	1.00	43.48	BS2
ATOM	33989	O	VAL	B	184	155.757	152.653	-17.003	1.00	43.48	BS2
ATOM	33990	N	ILE	B	185	157.383	154.199	-16.791	1.00	51.08	BS2
ATOM	33991	CA	ILE	B	185	156.865	155.061	-17.842	1.00	51.08	BS2
ATOM	33992	CB	ILE	B	185	156.701	156.495	-17.339	1.00	64.81	BS2
ATOM	33993	CG2	ILE	B	185	155.403	157.078	-17.858	1.00	64.81	BS2
ATOM	33994	CG1	ILE	B	185	156.725	156.508	-15.812	1.00	64.81	BS2
ATOM	33995	CD1	ILE	B	185	156.620	157.885	-15.217	1.00	64.81	BS2
ATOM	33996	C	ILE	B	185	157.928	155.065	-18.928	1.00	51.08	BS2
ATOM	33997	O	ILE	B	185	159.121	155.021	-18.619	1.00	51.08	BS2
ATOM	33998	N	ALA	B	186	157.533	155.121	-20.193	1.00	61.05	BS2
ATOM	33999	CA	ALA	B	186	158.562	155.130	-21.224	1.00	61.05	BS2
ATOM	34000	CB	ALA	B	186	159.203	153.747	-21.323	1.00	50.20	BS2
ATOM	34001	C	ALA	B	186	158.155	155.605	-22.613	1.00	61.05	BS2
ATOM	34002	O	ALA	B	186	157.049	155.330	-23.091	1.00	61.05	BS2
ATOM	34003	N	LEU	B	187	159.075	156.333	-23.244	1.00	66.13	BS2
ATOM	34004	CA	LEU	B	187	158.877	156.838	-24.592	1.00	66.13	BS2
ATOM	34005	CB	LEU	B	187	159.733	158.092	-24.807	1.00	53.69	BS2
ATOM	34006	CG	LEU	B	187	159.714	158.825	-26.160	1.00	53.69	BS2
ATOM	34007	CD1	LEU	B	187	160.843	158.339	-27.058	1.00	53.69	BS2
ATOM	34008	CD2	LEU	B	187	158.363	158.629	-26.821	1.00	53.69	BS2
ATOM	34009	C	LEU	B	187	159.360	155.690	-25.466	1.00	66.13	BS2
ATOM	34010	O	LEU	B	187	160.471	155.714	-25.997	1.00	66.13	BS2
ATOM	34011	N	ALA	B	188	158.522	154.667	-25.592	1.00	69.93	BS2
ATOM	34012	CA	ALA	B	188	158.872	153.480	-26.366	1.00	69.93	BS2
ATOM	34013	CB	ALA	B	188	158.438	152.241	-25.610	1.00	95.60	BS2
ATOM	34014	C	ALA	B	188	158.286	153.460	-27.769	1.00	69.93	BS2
ATOM	34015	O	ALA	B	188	157.193	153.979	-28.008	1.00	69.93	BS2
ATOM	34016	N	ASP	B	189	159.017	152.845	-28.693	1.00	81.65	BS2
ATOM	34017	CA	ASP	B	189	158.564	152.761	-30.074	1.00	81.65	BS2
ATOM	34018	CB	ASP	B	189	159.451	153.621	-30.969	1.00	98.39	BS2
ATOM	34019	CG	ASP	B	189	160.842	153.072	-31.093	1.00	98.39	BS2
ATOM	34020	OD1	ASP	B	189	161.334	152.482	-30.108	1.00	98.39	BS2
ATOM	34021	OD2	ASP	B	189	161.445	153.243	-32.171	1.00	98.39	BS2
ATOM	34022	C	ASP	B	189	158.512	151.336	-30.618	1.00	81.65	BS2
ATOM	34023	O	ASP	B	189	158.443	150.362	-29.861	1.00	81.65	BS2
ATOM	34024	N	THR	B	190	158.556	151.238	-31.941	1.00	45.04	BS2
ATOM	34025	CA	THR	B	190	158.471	149.969	-32.655	1.00	45.04	BS2

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ATOM	34026	CB	THR	B	190	158.785	150.196	-34.136	1.00	73.26	BS2
ATOM	34027	OG1	THR	B	190	157.830	151.117	-34.670	1.00	73.26	BS2
ATOM	34028	CG2	THR	B	190	158.706	148.897	-34.919	1.00	73.26	BS2
ATOM	34029	C	THR	B	190	159.267	148.755	-32.161	1.00	45.04	BS2
ATOM	34030	O	THR	B	190	158.743	147.634	-32.153	1.00	45.04	BS2
ATOM	34031	N	ASP	B	191	160.514	148.955	-31.744	1.00	59.07	BS2
ATOM	34032	CA	ASP	B	191	161.334	147.830	-31.294	1.00	59.07	BS2
ATOM	34033	CB	ASP	B	191	162.814	148.231	-31.247	1.00	93.79	BS2
ATOM	34034	CG	ASP	B	191	163.107	149.287	-30.192	1.00	93.79	BS2
ATOM	34035	OD1	ASP	B	191	163.007	150.498	-30.490	1.00	93.79	BS2
ATOM	34036	OD2	ASP	B	191	163.437	148.901	-29.052	1.00	93.79	BS2
ATOM	34037	C	ASP	B	191	160.962	147.197	-29.953	1.00	59.07	BS2
ATOM	34038	O	ASP	B	191	160.959	145.977	-29.823	1.00	59.07	BS2
ATOM	34039	N	SER	B	192	160.637	148.019	-28.960	1.00	70.42	BS2
ATOM	34040	CA	SER	B	192	160.330	147.518	-27.620	1.00	70.42	BS2
ATOM	34041	CB	SER	B	192	160.479	148.657	-26.617	1.00	135.57	BS2
ATOM	34042	OG	SER	B	192	159.765	149.793	-27.061	1.00	135.57	BS2
ATOM	34043	C	SER	B	192	159.011	146.789	-27.348	1.00	70.42	BS2
ATOM	34044	O	SER	B	192	158.050	146.852	-28.122	1.00	70.42	BS2
ATOM	34045	N	ASP	B	193	159.009	146.100	-26.207	1.00	64.49	BS2
ATOM	34046	CA	ASP	B	193	157.878	145.321	-25.714	1.00	64.49	BS2
ATOM	34047	CB	ASP	B	193	158.388	144.152	-24.866	1.00	104.02	BS2
ATOM	34048	CG	ASP	B	193	157.272	143.250	-24.375	1.00	104.02	BS2
ATOM	34049	OD1	ASP	B	193	156.269	143.761	-23.828	1.00	104.02	BS2
ATOM	34050	OD2	ASP	B	193	157.405	142.020	-24.529	1.00	104.02	BS2
ATOM	34051	C	ASP	B	193	157.012	146.221	-24.847	1.00	64.49	BS2
ATOM	34052	O	ASP	B	193	157.403	146.594	-23.743	1.00	64.49	BS2
ATOM	34053	N	PRO	B	194	155.821	146.577	-25.336	1.00	59.38	BS2
ATOM	34054	CD	PRO	B	194	155.276	146.202	-26.653	1.00	64.89	BS2
ATOM	34055	CA	PRO	B	194	154.888	147.441	-24.606	1.00	59.38	BS2
ATOM	34056	CB	PRO	B	194	153.784	147.692	-25.636	1.00	64.89	BS2
ATOM	34057	CG	PRO	B	194	153.795	146.426	-26.465	1.00	64.89	BS2
ATOM	34058	C	PRO	B	194	154.336	146.865	-23.292	1.00	59.38	BS2
ATOM	34059	O	PRO	B	194	154.154	147.595	-22.311	1.00	59.38	BS2
ATOM	34060	N	ASP	B	195	154.077	145.557	-23.281	1.00	52.21	BS2
ATOM	34061	CA	ASP	B	195	153.522	144.874	-22.116	1.00	52.21	BS2
ATOM	34062	CB	ASP	B	195	153.309	143.395	-22.441	1.00	114.06	BS2
ATOM	34063	CG	ASP	B	195	152.388	143.187	-23.633	1.00	114.06	BS2
ATOM	34064	OD1	ASP	B	195	151.249	143.705	-23.611	1.00	114.06	BS2
ATOM	34065	OD2	ASP	B	195	152.805	142.504	-24.592	1.00	114.06	BS2
ATOM	34066	C	ASP	B	195	154.343	145.007	-20.838	1.00	52.21	BS2
ATOM	34067	O	ASP	B	195	153.846	144.714	-19.757	1.00	52.21	BS2
ATOM	34068	N	LEU	B	196	155.591	145.451	-20.958	1.00	39.62	BS2
ATOM	34069	CA	LEU	B	196	156.461	145.621	-19.794	1.00	39.62	BS2
ATOM	34070	CB	LEU	B	196	157.910	145.275	-20.141	1.00	48.77	BS2
ATOM	34071	CG	LEU	B	196	158.144	143.857	-20.638	1.00	48.77	BS2
ATOM	34072	CD1	LEU	B	196	159.624	143.580	-20.775	1.00	48.77	BS2
ATOM	34073	CD2	LEU	B	196	157.520	142.899	-19.651	1.00	48.77	BS2
ATOM	34074	C	LEU	B	196	156.424	147.048	-19.279	1.00	39.62	BS2
ATOM	34075	O	LEU	B	196	156.926	147.337	-18.193	1.00	39.62	BS2
ATOM	34076	N	VAL	B	197	155.848	147.949	-20.064	1.00	59.43	BS2
ATOM	34077	CA	VAL	B	197	155.780	149.338	-19.646	1.00	59.43	BS2
ATOM	34078	CB	VAL	B	197	156.008	150.302	-20.823	1.00	56.83	BS2
ATOM	34079	CG1	VAL	B	197	156.516	151.641	-20.303	1.00	56.83	BS2
ATOM	34080	CG2	VAL	B	197	156.978	149.697	-21.816	1.00	56.83	BS2
ATOM	34081	C	VAL	B	197	154.407	149.603	-19.061	1.00	59.43	BS2
ATOM	34082	O	VAL	B	197	153.383	149.240	-19.652	1.00	59.43	BS2
ATOM	34083	N	ASP	B	198	154.394	150.234	-17.894	1.00	53.24	BS2
ATOM	34084	CA	ASP	B	198	153.152	150.544	-17.209	1.00	53.24	BS2
ATOM	34085	CB	ASP	B	198	153.455	150.897	-15.760	1.00	77.51	BS2
ATOM	34086	CG	ASP	B	198	154.236	149.808	-15.060	1.00	77.51	BS2
ATOM	34087	OD1	ASP	B	198	153.780	148.644	-15.115	1.00	77.51	BS2
ATOM	34088	OD2	ASP	B	198	155.296	150.108	-14.464	1.00	77.51	BS2
ATOM	34089	C	ASP	B	198	152.433	151.689	-17.905	1.00	53.24	BS2
ATOM	34090	O	ASP	B	198	151.268	151.563	-18.273	1.00	53.24	BS2
ATOM	34091	N	TYR	B	199	153.131	152.803	-18.085	1.00	71.45	BS2
ATOM	34092	CA	TYR	B	199	152.557	153.959	-18.756	1.00	71.45	BS2
ATOM	34093	CB	TYR	B	199	152.520	155.153	-17.805	1.00	63.76	BS2
ATOM	34094	CG	TYR	B	199	151.796	154.868	-16.504	1.00	63.76	BS2
ATOM	34095	CD1	TYR	B	199	152.501	154.504	-15.357	1.00	63.76	BS2
ATOM	34096	CE1	TYR	B	199	151.836	154.227	-14.156	1.00	63.76	BS2
ATOM	34097	CD2	TYR	B	199	150.402	154.948	-16.421	1.00	63.76	BS2
ATOM	34098	CE2	TYR	B	199	149.728	154.671	-15.230	1.00	63.76	BS2
ATOM	34099	CZ	TYR	B	199	150.453	154.312	-14.104	1.00	63.76	BS2
ATOM	34100	OH	TYR	B	199	149.810	154.037	-12.922	1.00	63.76	BS2
ATOM	34101	C	TYR	B	199	153.418	154.267	-19.978	1.00	71.45	BS2
ATOM	34102	O	TYR	B	199	154.545	154.755	-19.860	1.00	71.45	BS2

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ATOM	34103	N	ILE	B	200	152.883	153.974	-21.155	1.00	67.38	BS2
ATOM	34104	CA	ILE	B	200	153.624	154.180	-22.385	1.00	67.38	BS2
ATOM	34105	CB	ILE	B	200	153.383	152.998	-23.361	1.00	82.03	BS2
ATOM	34106	CG2	ILE	B	200	153.592	153.421	-24.801	1.00	82.03	BS2
ATOM	34107	CG1	ILE	B	200	154.336	151.860	-23.032	1.00	82.03	BS2
ATOM	34108	CD1	ILE	B	200	154.281	150.724	-24.022	1.00	82.03	BS2
ATOM	34109	C	ILE	B	200	153.334	155.475	-23.124	1.00	67.38	BS2
ATOM	34110	O	ILE	B	200	152.229	156.010	-23.053	1.00	67.38	BS2
ATOM	34111	N	ILE	B	201	154.356	155.972	-23.821	1.00	62.97	BS2
ATOM	34112	CA	ILE	B	201	154.269	157.159	-24.670	1.00	62.97	BS2
ATOM	34113	CB	ILE	B	201	155.079	158.366	-24.111	1.00	65.22	BS2
ATOM	34114	CG2	ILE	B	201	154.962	159.562	-25.057	1.00	65.22	BS2
ATOM	34115	CG1	ILE	B	201	154.536	158.779	-22.744	1.00	65.22	BS2
ATOM	34116	CD1	ILE	B	201	155.261	159.962	-22.147	1.00	65.22	BS2
ATOM	34117	C	ILE	B	201	154.908	156.653	-25.965	1.00	62.97	BS2
ATOM	34118	O	ILE	B	201	156.097	156.851	-26.214	1.00	62.97	BS2
ATOM	34119	N	PRO	B	202	154.117	155.959	-26.790	1.00	49.61	BS2
ATOM	34120	CD	PRO	B	202	152.658	155.826	-26.629	1.00	49.85	BS2
ATOM	34121	CA	PRO	B	202	154.555	155.387	-28.066	1.00	49.61	BS2
ATOM	34122	CB	PRO	B	202	153.349	154.558	-28.503	1.00	49.85	BS2
ATOM	34123	CG	PRO	B	202	152.209	155.385	-28.018	1.00	49.85	BS2
ATOM	34124	C	PRO	B	202	154.932	156.444	-29.085	1.00	49.61	BS2
ATOM	34125	O	PRO	B	202	154.069	157.110	-29.649	1.00	49.61	BS2
ATOM	34126	N	GLY	B	203	156.230	156.588	-29.317	1.00	69.85	BS2
ATOM	34127	CA	GLY	B	203	156.701	157.577	-30.265	1.00	69.85	BS2
ATOM	34128	C	GLY	B	203	158.205	157.502	-30.409	1.00	69.85	BS2
ATOM	34129	O	GLY	B	203	158.888	157.022	-29.509	1.00	69.85	BS2
ATOM	34130	N	ASN	B	204	158.713	157.988	-31.538	1.00	67.08	BS2
ATOM	34131	CA	ASN	B	204	160.140	157.978	-31.850	1.00	67.08	BS2
ATOM	34132	CB	ASN	B	204	160.469	159.258	-32.617	1.00	113.04	BS2
ATOM	34133	CG	ASN	B	204	161.750	159.149	-33.403	1.00	113.04	BS2
ATOM	34134	OD1	ASN	B	204	162.060	160.013	-34.219	1.00	113.04	BS2
ATOM	34135	ND2	ASN	B	204	162.508	158.090	-33.161	1.00	113.04	BS2
ATOM	34136	C	ASN	B	204	161.112	157.794	-30.656	1.00	67.08	BS2
ATOM	34137	O	ASN	B	204	161.435	158.754	-29.961	1.00	67.08	BS2
ATOM	34138	N	ASP	B	205	161.578	156.556	-30.437	1.00	75.91	BS2
ATOM	34139	CA	ASP	B	205	162.507	156.245	-29.337	1.00	75.91	BS2
ATOM	34140	CB	ASP	B	205	162.740	154.701	-29.194	1.00	70.00	BS2
ATOM	34141	CG	ASP	B	205	163.706	154.080	-30.267	1.00	70.00	BS2
ATOM	34142	OD1	ASP	B	205	163.577	154.352	-31.477	1.00	70.00	BS2
ATOM	34143	OD2	ASP	B	205	164.589	153.267	-29.892	1.00	70.00	BS2
ATOM	34144	C	ASP	B	205	163.822	156.983	-29.520	1.00	75.91	BS2
ATOM	34145	O	ASP	B	205	164.484	157.338	-28.553	1.00	75.91	BS2
ATOM	34146	N	ASP	B	206	164.180	157.224	-30.774	1.00	117.72	BS2
ATOM	34147	CA	ASP	B	206	165.402	157.929	-31.111	1.00	117.72	BS2
ATOM	34148	CB	ASP	B	206	166.087	157.211	-32.270	1.00	150.57	BS2
ATOM	34149	CG	ASP	B	206	167.249	157.986	-32.819	1.00	150.57	BS2
ATOM	34150	OD1	ASP	B	206	168.162	158.303	-32.031	1.00	150.57	BS2
ATOM	34151	OD2	ASP	B	206	167.247	158.285	-34.032	1.00	150.57	BS2
ATOM	34152	C	ASP	B	206	165.028	159.356	-31.511	1.00	117.72	BS2
ATOM	34153	O	ASP	B	206	163.867	159.742	-31.394	1.00	117.72	BS2
ATOM	34154	N	ALA	B	207	166.009	160.136	-31.963	1.00	88.20	BS2
ATOM	34155	CA	ALA	B	207	165.788	161.518	-32.406	1.00	88.20	BS2
ATOM	34156	CB	ALA	B	207	164.573	161.601	-33.357	1.00	30.10	BS2
ATOM	34157	C	ALA	B	207	165.612	162.524	-31.283	1.00	88.20	BS2
ATOM	34158	O	ALA	B	207	164.700	162.410	-30.463	1.00	88.20	BS2
ATOM	34159	N	ILE	B	208	166.487	163.522	-31.268	1.00	63.33	BS2
ATOM	34160	CA	ILE	B	208	166.428	164.570	-30.264	1.00	63.33	BS2
ATOM	34161	CB	ILE	B	208	167.665	165.499	-30.360	1.00	99.86	BS2
ATOM	34162	CG2	ILE	B	208	167.345	166.892	-29.811	1.00	99.86	BS2
ATOM	34163	CG1	ILE	B	208	168.834	164.857	-29.609	1.00	99.86	BS2
ATOM	34164	CD1	ILE	B	208	170.041	165.752	-29.455	1.00	99.86	BS2
ATOM	34165	C	ILE	B	208	165.149	165.383	-30.428	1.00	63.33	BS2
ATOM	34166	O	ILE	B	208	164.372	165.519	-29.482	1.00	63.33	BS2
ATOM	34167	N	ARG	B	209	164.926	165.911	-31.628	1.00	112.59	BS2
ATOM	34168	CA	ARG	B	209	163.734	166.707	-31.887	1.00	112.59	BS2
ATOM	34169	CB	ARG	B	209	163.516	166.862	-33.396	1.00	133.35	BS2
ATOM	34170	CG	ARG	B	209	162.294	167.693	-33.773	1.00	133.35	BS2
ATOM	34171	CD	ARG	B	209	162.300	169.070	-33.120	1.00	133.35	BS2
ATOM	34172	NE	ARG	B	209	163.397	169.914	-33.591	1.00	133.35	BS2
ATOM	34173	CZ	ARG	B	209	163.540	170.327	-34.847	1.00	133.35	BS2
ATOM	34174	NH1	ARG	B	209	162.655	169.975	-35.769	1.00	133.35	BS2
ATOM	34175	NH2	ARG	B	209	164.569	171.094	-35.183	1.00	133.35	BS2
ATOM	34176	C	ARG	B	209	162.520	166.046	-31.244	1.00	112.59	BS2
ATOM	34177	O	ARG	B	209	161.612	166.726	-30.762	1.00	112.59	BS2
ATOM	34178	N	SER	B	210	162.526	164.716	-31.226	1.00	98.26	BS2
ATOM	34179	CA	SER	B	210	161.440	163.929	-30.639	1.00	98.26	BS2

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ATOM	34180	CB	SER	B	210	161.492	162.498	-31.175	1.00	82.42	BS2
ATOM	34181	OG	SER	B	210	160.564	161.669	-30.501	1.00	82.42	BS2
ATOM	34182	C	SER	B	210	161.525	163.901	-29.115	1.00	98.26	BS2
ATOM	34183	O	SER	B	210	160.718	164.522	-28.419	1.00	98.26	BS2
ATOM	34184	N	ILE	B	211	162.502	163.154	-28.611	1.00	73.18	BS2
ATOM	34185	CA	ILE	B	211	162.734	163.039	-27.182	1.00	73.18	BS2
ATOM	34186	CB	ILE	B	211	164.173	162.611	-26.904	1.00	58.17	BS2
ATOM	34187	CG2	ILE	B	211	164.504	162.804	-25.431	1.00	58.17	BS2
ATOM	34188	CG1	ILE	B	211	164.360	161.163	-27.340	1.00	58.17	BS2
ATOM	34189	CD1	ILE	B	211	165.794	160.736	-27.403	1.00	58.17	BS2
ATOM	34190	C	ILE	B	211	162.494	164.373	-26.501	1.00	73.18	BS2
ATOM	34191	O	ILE	B	211	161.502	164.538	-25.798	1.00	73.18	BS2
ATOM	34192	N	GLN	B	212	163.412	165.312	-26.727	1.00	95.09	BS2
ATOM	34193	CA	GLN	B	212	163.358	166.662	-26.160	1.00	95.09	BS2
ATOM	34194	CB	GLN	B	212	164.136	167.621	-27.070	1.00	83.86	BS2
ATOM	34195	CG	GLN	B	212	164.110	169.089	-26.665	1.00	83.86	BS2
ATOM	34196	CD	GLN	B	212	162.774	169.740	-26.944	1.00	83.86	BS2
ATOM	34197	OE1	GLN	B	212	162.201	169.565	-28.022	1.00	83.86	BS2
ATOM	34198	NE2	GLN	B	212	162.271	170.501	-25.978	1.00	83.86	BS2
ATOM	34199	C	GLN	B	212	161.942	167.198	-25.918	1.00	95.09	BS2
ATOM	34200	O	GLN	B	212	161.655	167.754	-24.855	1.00	95.09	BS2
ATOM	34201	N	LEU	B	213	161.067	167.036	-26.907	1.00	59.67	BS2
ATOM	34202	CA	LEU	B	213	159.681	167.492	-26.802	1.00	59.67	BS2
ATOM	34203	CB	LEU	B	213	158.944	167.170	-28.101	1.00	53.57	BS2
ATOM	34204	CG	LEU	B	213	157.535	167.727	-28.324	1.00	53.57	BS2
ATOM	34205	CD1	LEU	B	213	157.007	167.086	-29.589	1.00	53.57	BS2
ATOM	34206	CD2	LEU	B	213	156.585	167.444	-27.154	1.00	53.57	BS2
ATOM	34207	C	LEU	B	213	158.961	166.807	-25.636	1.00	59.67	BS2
ATOM	34208	O	LEU	B	213	158.749	167.399	-24.574	1.00	59.67	BS2
ATOM	34209	N	ILE	B	214	158.579	165.552	-25.875	1.00	63.59	BS2
ATOM	34210	CA	ILE	B	214	157.870	164.705	-24.917	1.00	63.59	BS2
ATOM	34211	CB	ILE	B	214	157.973	163.224	-25.338	1.00	49.47	BS2
ATOM	34212	CG2	ILE	B	214	157.304	162.338	-24.318	1.00	49.47	BS2
ATOM	34213	CG1	ILE	B	214	157.311	163.020	-26.695	1.00	49.47	BS2
ATOM	34214	CD1	ILE	B	214	155.888	163.531	-26.779	1.00	49.47	BS2
ATOM	34215	C	ILE	B	214	158.368	164.856	-23.482	1.00	63.59	BS2
ATOM	34216	O	ILE	B	214	157.574	165.069	-22.565	1.00	63.59	BS2
ATOM	34217	N	LEU	B	215	159.677	164.720	-23.287	1.00	65.16	BS2
ATOM	34218	CA	LEU	B	215	160.258	164.882	-21.965	1.00	65.16	BS2
ATOM	34219	CB	LEU	B	215	161.769	164.738	-22.008	1.00	60.31	BS2
ATOM	34220	CG	LEU	B	215	162.286	163.339	-21.725	1.00	60.31	BS2
ATOM	34221	CD1	LEU	B	215	163.805	163.364	-21.787	1.00	60.31	BS2
ATOM	34222	CD2	LEU	B	215	161.809	162.873	-20.352	1.00	60.31	BS2
ATOM	34223	C	LEU	B	215	159.932	166.263	-21.438	1.00	65.16	BS2
ATOM	34224	O	LEU	B	215	159.051	166.416	-20.598	1.00	65.16	BS2
ATOM	34225	N	SER	B	216	160.647	167.266	-21.940	1.00	76.81	BS2
ATOM	34226	CA	SER	B	216	160.448	168.653	-21.522	1.00	76.81	BS2
ATOM	34227	CB	SER	B	216	160.885	169.611	-22.631	1.00	121.24	BS2
ATOM	34228	OG	SER	B	216	160.119	169.411	-23.806	1.00	121.24	BS2
ATOM	34229	C	SER	B	216	159.003	168.949	-21.137	1.00	76.81	BS2
ATOM	34230	O	SER	B	216	158.760	169.579	-20.105	1.00	76.81	BS2
ATOM	34231	N	ARG	B	217	158.055	168.490	-21.961	1.00	63.68	BS2
ATOM	34232	CA	ARG	B	217	156.627	168.702	-21.704	1.00	63.68	BS2
ATOM	34233	CB	ARG	B	217	155.781	168.163	-22.856	1.00	65.97	BS2
ATOM	34234	CG	ARG	B	217	155.926	168.946	-24.144	1.00	65.97	BS2
ATOM	34235	CD	ARG	B	217	155.686	170.456	-23.944	1.00	65.97	BS2
ATOM	34236	NE	ARG	B	217	155.424	171.141	-25.216	1.00	65.97	BS2
ATOM	34237	CZ	ARG	B	217	154.224	171.231	-25.797	1.00	65.97	BS2
ATOM	34238	NH1	ARG	B	217	153.149	170.690	-25.216	1.00	65.97	BS2
ATOM	34239	NH2	ARG	B	217	154.098	171.834	-26.981	1.00	65.97	BS2
ATOM	34240	C	ARG	B	217	156.188	168.041	-20.408	1.00	63.68	BS2
ATOM	34241	O	ARG	B	217	155.426	168.617	-19.632	1.00	63.68	BS2
ATOM	34242	N	ALA	B	218	156.669	166.827	-20.179	1.00	57.75	BS2
ATOM	34243	CA	ALA	B	218	156.333	166.100	-18.969	1.00	57.75	BS2
ATOM	34244	CB	ALA	B	218	156.662	164.622	-19.145	1.00	70.58	BS2
ATOM	34245	C	ALA	B	218	157.096	166.690	-17.777	1.00	57.75	BS2
ATOM	34246	O	ALA	B	218	156.757	166.446	-16.620	1.00	57.75	BS2
ATOM	34247	N	VAL	B	219	158.133	167.468	-18.060	1.00	78.26	BS2
ATOM	34248	CA	VAL	B	219	158.896	168.087	-16.990	1.00	78.26	BS2
ATOM	34249	CB	VAL	B	219	160.319	168.455	-17.450	1.00	69.36	BS2
ATOM	34250	CG1	VAL	B	219	161.174	168.861	-16.245	1.00	69.36	BS2
ATOM	34251	CG2	VAL	B	219	160.941	167.278	-18.181	1.00	69.36	BS2
ATOM	34252	C	VAL	B	219	158.137	169.351	-16.591	1.00	78.26	BS2
ATOM	34253	O	VAL	B	219	158.032	169.675	-15.405	1.00	78.26	BS2
ATOM	34254	N	ASP	B	220	157.604	170.062	-17.585	1.00	94.16	BS2
ATOM	34255	CA	ASP	B	220	156.822	171.268	-17.317	1.00	94.16	BS2
ATOM	34256	CB	ASP	B	220	156.176	171.804	-18.598	1.00	155.83	BS2

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ATOM	34257	CG	ASP	B	220	157.177	172.054	-19.706	1.00155.83	BS2
ATOM	34258	OD1	ASP	B	220	158.145	172.810	-19.484	1.00155.83	BS2
ATOM	34259	OD2	ASP	B	220	156.988	171.498	-20.808	1.00155.83	BS2
ATOM	34260	C	ASP	B	220	155.720	170.794	-16.389	1.00 94.16	BS2
ATOM	34261	O	ASP	B	220	155.522	171.321	-15.297	1.00 94.16	BS2
ATOM	34262	N	LEU	B	221	155.017	169.773	-16.862	1.00 53.49	BS2
ATOM	34263	CA	LEU	B	221	153.921	169.138	-16.151	1.00 53.49	BS2
ATOM	34264	CB	LEU	B	221	153.587	167.821	-16.838	1.00 59.86	BS2
ATOM	34265	CG	LEU	B	221	152.107	167.480	-16.866	1.00 59.86	BS2
ATOM	34266	CD1	LEU	B	221	151.667	166.933	-15.519	1.00 59.86	BS2
ATOM	34267	CD2	LEU	B	221	151.337	168.738	-17.271	1.00 59.86	BS2
ATOM	34268	C	LEU	B	221	154.251	168.881	-14.685	1.00 53.49	BS2
ATOM	34269	O	LEU	B	221	153.440	169.162	-13.800	1.00 53.49	BS2
ATOM	34270	N	ILE	B	222	155.433	168.331	-14.429	1.00 71.46	BS2
ATOM	34271	CA	ILE	B	222	155.847	168.067	-13.061	1.00 71.46	BS2
ATOM	34272	CB	ILE	B	222	157.283	167.509	-12.990	1.00 55.29	BS2
ATOM	34273	CG2	ILE	B	222	157.809	167.591	-11.559	1.00 55.29	BS2
ATOM	34274	CG1	ILE	B	222	157.316	166.066	-13.486	1.00 55.29	BS2
ATOM	34275	CD1	ILE	B	222	158.686	165.428	-13.350	1.00 55.29	BS2
ATOM	34276	C	ILE	B	222	155.806	169.377	-12.284	1.00 71.46	BS2
ATOM	34277	O	ILE	B	222	155.305	169.423	-11.156	1.00 71.46	BS2
ATOM	34278	N	ILE	B	223	156.332	170.440	-12.895	1.00 58.87	BS2
ATOM	34279	CA	ILE	B	223	156.361	171.765	-12.260	1.00 58.87	BS2
ATOM	34280	CB	ILE	B	223	157.330	172.715	-13.000	1.00 80.57	BS2
ATOM	34281	CG2	ILE	B	223	157.640	173.914	-12.121	1.00 80.57	BS2
ATOM	34282	CG1	ILE	B	223	158.635	171.982	-13.328	1.00 80.57	BS2
ATOM	34283	CD1	ILE	B	223	159.575	172.763	-14.227	1.00 80.57	BS2
ATOM	34284	C	ILE	B	223	154.964	172.408	-12.227	1.00 58.87	BS2
ATOM	34285	O	ILE	B	223	154.504	172.868	-11.176	1.00 58.87	BS2
ATOM	34286	N	GLN	B	224	154.304	172.425	-13.387	1.00 77.44	BS2
ATOM	34287	CA	GLN	B	224	152.956	172.977	-13.534	1.00 77.44	BS2
ATOM	34288	CB	GLN	B	224	152.487	172.866	-14.994	1.00115.14	BS2
ATOM	34289	CG	GLN	B	224	151.156	173.562	-15.295	1.00115.14	BS2
ATOM	34290	CD	GLN	B	224	150.479	173.055	-16.570	1.00115.14	BS2
ATOM	34291	OE1	GLN	B	224	149.852	171.993	-16.582	1.00115.14	BS2
ATOM	34292	NE2	GLN	B	224	150.609	173.817	-17.649	1.00115.14	BS2
ATOM	34293	C	GLN	B	224	152.018	172.167	-12.647	1.00 77.44	BS2
ATOM	34294	O	GLN	B	224	150.815	172.086	-12.897	1.00 77.44	BS2
ATOM	34295	N	ALA	B	225	152.587	171.555	-11.616	1.00 68.38	BS2
ATOM	34296	CA	ALA	B	225	151.827	170.745	-10.686	1.00 68.38	BS2
ATOM	34297	CB	ALA	B	225	151.759	169.312	-11.181	1.00 86.19	BS2
ATOM	34298	C	ALA	B	225	152.521	170.809	-9.336	1.00 68.38	BS2
ATOM	34299	O	ALA	B	225	152.213	170.038	-8.429	1.00 68.38	BS2
ATOM	34300	N	ARG	B	226	153.467	171.734	-9.213	1.00104.06	BS2
ATOM	34301	CA	ARG	B	226	154.197	171.916	-7.968	1.00104.06	BS2
ATOM	34302	CB	ARG	B	226	155.572	171.253	-8.059	1.00107.88	BS2
ATOM	34303	CG	ARG	B	226	155.481	169.770	-8.305	1.00107.88	BS2
ATOM	34304	CD	ARG	B	226	156.576	169.007	-7.594	1.00107.88	BS2
ATOM	34305	NE	ARG	B	226	157.885	169.169	-8.216	1.00107.88	BS2
ATOM	34306	CZ	ARG	B	226	158.961	168.470	-7.864	1.00107.88	BS2
ATOM	34307	NH1	ARG	B	226	158.875	167.566	-6.893	1.00107.88	BS2
ATOM	34308	NH2	ARG	B	226	160.120	168.666	-8.484	1.00107.88	BS2
ATOM	34309	C	ARG	B	226	154.341	173.401	-7.644	1.00104.06	BS2
ATOM	34310	O	ARG	B	226	155.203	173.798	-6.854	1.00104.06	BS2
ATOM	34311	N	GLY	B	227	153.485	174.214	-8.261	1.00110.57	BS2
ATOM	34312	CA	GLY	B	227	153.511	175.649	-8.032	1.00110.57	BS2
ATOM	34313	C	GLY	B	227	154.777	176.328	-8.518	1.00110.57	BS2
ATOM	34314	O	GLY	B	227	155.213	177.325	-7.944	1.00110.57	BS2
ATOM	34315	N	GLY	B	228	155.368	175.790	-9.579	1.00141.67	BS2
ATOM	34316	CA	GLY	B	228	156.584	176.367	-10.118	1.00141.67	BS2
ATOM	34317	C	GLY	B	228	156.321	177.465	-11.130	1.00141.67	BS2
ATOM	34318	O	GLY	B	228	157.096	178.416	-11.225	1.00141.67	BS2
ATOM	34319	N	VAL	B	229	155.231	177.335	-11.886	1.00112.32	BS2
ATOM	34320	CA	VAL	B	229	154.870	178.326	-12.896	1.00112.32	BS2
ATOM	34321	CB	VAL	B	229	154.300	179.606	-12.232	1.00179.35	BS2
ATOM	34322	CG1	VAL	B	229	153.755	180.556	-13.289	1.00179.35	BS2
ATOM	34323	CG2	VAL	B	229	153.210	179.234	-11.241	1.00179.35	BS2
ATOM	34324	C	VAL	B	229	156.119	178.683	-13.700	1.00112.32	BS2
ATOM	34325	O	VAL	B	229	156.288	179.817	-14.147	1.00112.32	BS2
ATOM	34326	N	VAL	B	230	156.990	177.694	-13.878	1.00 94.16	BS2
ATOM	34327	CA	VAL	B	230	158.248	177.859	-14.600	1.00 94.16	BS2
ATOM	34328	CB	VAL	B	230	159.136	176.588	-14.402	1.00 86.06	BS2
ATOM	34329	CG1	VAL	B	230	160.379	176.630	-15.290	1.00 86.06	BS2
ATOM	34330	CG2	VAL	B	230	159.551	176.491	-12.937	1.00 86.06	BS2
ATOM	34331	C	VAL	B	230	158.101	178.195	-16.095	1.00 94.16	BS2
ATOM	34332	O	VAL	B	230	157.066	177.937	-16.720	1.00 94.16	BS2
ATOM	34333	N	GLU	B	231	159.160	178.787	-16.643	1.00184.10	BS2

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ATOM	34334	CA	GLU	B	231	159.233	179.205	-18.041	1.00184.10	BS2
ATOM	34335	CB	GLU	B	231	160.095	180.467	-18.133	1.00165.17	BS2
ATOM	34336	CG	GLU	B	231	161.300	180.471	-17.190	1.00165.17	BS2
ATOM	34337	CD	GLU	B	231	162.070	179.157	-17.196	1.00165.17	BS2
ATOM	34338	OE1	GLU	B	231	162.502	178.716	-18.281	1.00165.17	BS2
ATOM	34339	OE2	GLU	B	231	162.249	178.565	-16.110	1.00165.17	BS2
ATOM	34340	C	GLU	B	231	159.805	178.123	-18.966	1.00184.10	BS2
ATOM	34341	O	GLU	B	231	160.309	177.101	-18.497	1.00184.10	BS2
ATOM	34342	N	PRO	B	232	159.739	178.343	-20.297	1.00163.24	BS2
ATOM	34343	CD	PRO	B	232	159.145	179.520	-20.963	1.00 84.11	BS2
ATOM	34344	CA	PRO	B	232	160.247	177.397	-21.298	1.00163.24	BS2
ATOM	34345	CB	PRO	B	232	160.394	178.271	-22.536	1.00 84.11	BS2
ATOM	34346	CG	PRO	B	232	159.175	179.126	-22.440	1.00 84.11	BS2
ATOM	34347	C	PRO	B	232	161.543	176.677	-20.921	1.00163.24	BS2
ATOM	34348	O	PRO	B	232	162.337	177.166	-20.118	1.00163.24	BS2
ATOM	34349	N	SER	B	233	161.747	175.511	-21.523	1.00141.98	BS2
ATOM	34350	CA	SER	B	233	162.918	174.690	-21.247	1.00141.98	BS2
ATOM	34351	CB	SER	B	233	162.561	173.213	-21.466	1.00110.30	BS2
ATOM	34352	OG	SER	B	233	163.587	172.352	-21.004	1.00110.30	BS2
ATOM	34353	C	SER	B	233	164.135	175.061	-22.095	1.00141.98	BS2
ATOM	34354	O	SER	B	233	164.005	175.393	-23.275	1.00141.98	BS2
ATOM	34355	N	PRO	B	234	165.338	175.019	-21.493	1.00118.81	BS2
ATOM	34356	CD	PRO	B	234	165.573	174.828	-20.049	1.00 75.11	BS2
ATOM	34357	CA	PRO	B	234	166.595	175.341	-22.178	1.00118.81	BS2
ATOM	34358	CB	PRO	B	234	167.580	175.517	-21.021	1.00 75.11	BS2
ATOM	34359	CG	PRO	B	234	167.064	174.560	-20.001	1.00 75.11	BS2
ATOM	34360	C	PRO	B	234	167.033	174.240	-23.144	1.00118.81	BS2
ATOM	34361	O	PRO	B	234	167.765	174.491	-24.100	1.00118.81	BS2
ATOM	34362	N	SER	B	235	166.569	173.023	-22.883	1.00126.71	BS2
ATOM	34363	CA	SER	B	235	166.900	171.860	-23.698	1.00126.71	BS2
ATOM	34364	CB	SER	B	235	166.000	170.683	-23.325	1.00 81.11	BS2
ATOM	34365	OG	SER	B	235	164.684	170.874	-23.822	1.00 81.11	BS2
ATOM	34366	C	SER	B	235	166.785	172.093	-25.200	1.00126.71	BS2
ATOM	34367	O	SER	B	235	167.611	171.600	-25.964	1.00126.71	BS2
ATOM	34368	N	TYR	B	236	165.756	172.827	-25.621	1.00111.63	BS2
ATOM	34369	CA	TYR	B	236	165.534	173.100	-27.041	1.00111.63	BS2
ATOM	34370	CB	TYR	B	236	164.432	174.156	-27.209	1.00106.44	BS2
ATOM	34371	CG	TYR	B	236	163.797	174.219	-28.592	1.00106.44	BS2
ATOM	34372	CD1	TYR	B	236	162.688	175.036	-28.829	1.00106.44	BS2
ATOM	34373	CE1	TYR	B	236	162.089	175.099	-30.092	1.00106.44	BS2
ATOM	34374	CD2	TYR	B	236	164.296	173.463	-29.657	1.00106.44	BS2
ATOM	34375	CE2	TYR	B	236	163.708	173.518	-30.925	1.00106.44	BS2
ATOM	34376	CZ	TYR	B	236	162.602	174.338	-31.136	1.00106.44	BS2
ATOM	34377	OH	TYR	B	236	162.003	174.390	-32.383	1.00106.44	BS2
ATOM	34378	C	TYR	B	236	166.820	173.563	-27.726	1.00111.63	BS2
ATOM	34379	O	TYR	B	236	167.034	173.294	-28.909	1.00111.63	BS2
ATOM	34380	N	ALA	B	237	167.679	174.249	-26.977	1.00109.93	BS2
ATOM	34381	CA	ALA	B	237	168.948	174.734	-27.512	1.00109.93	BS2
ATOM	34382	CB	ALA	B	237	169.657	175.591	-26.464	1.00 69.12	BS2
ATOM	34383	C	ALA	B	237	169.844	173.563	-27.927	1.00109.93	BS2
ATOM	34384	O	ALA	B	237	170.780	173.727	-28.719	1.00109.93	BS2
ATOM	34385	N	LEU	B	238	169.543	172.383	-27.388	1.00101.96	BS2
ATOM	34386	CA	LEU	B	238	170.303	171.166	-27.663	1.00101.96	BS2
ATOM	34387	CB	LEU	B	238	170.279	170.250	-26.438	1.00128.86	BS2
ATOM	34388	CG	LEU	B	238	171.127	170.687	-25.243	1.00128.86	BS2
ATOM	34389	CD1	LEU	B	238	170.755	169.874	-24.021	1.00128.86	BS2
ATOM	34390	CD2	LEU	B	238	172.601	170.511	-25.575	1.00128.86	BS2
ATOM	34391	C	LEU	B	238	169.806	170.392	-28.876	1.00101.96	BS2
ATOM	34392	O	LEU	B	238	170.312	169.314	-29.179	1.00101.96	BS2
ATOM	34393	N	VAL	B	239	168.810	170.935	-29.562	1.00119.23	BS2
ATOM	34394	CA	VAL	B	239	168.273	170.282	-30.745	1.00119.23	BS2
ATOM	34395	CB	VAL	B	239	166.799	170.688	-30.959	1.00 85.35	BS2
ATOM	34396	CG1	VAL	B	239	166.193	169.914	-32.114	1.00 85.35	BS2
ATOM	34397	CG2	VAL	B	239	166.016	170.424	-29.690	1.00 85.35	BS2
ATOM	34398	C	VAL	B	239	169.128	170.678	-31.959	1.00119.23	BS2
ATOM	34399	O	VAL	B	239	168.844	170.290	-33.095	1.00119.23	BS2
ATOM	34400	N	GLN	B	240	170.185	171.448	-31.700	1.00151.29	BS2
ATOM	34401	CA	GLN	B	240	171.102	171.897	-32.748	1.00151.29	BS2
ATOM	34402	CB	GLN	B	240	171.252	173.418	-32.726	1.00110.33	BS2
ATOM	34403	CG	GLN	B	240	169.978	174.176	-33.034	1.00110.33	BS2
ATOM	34404	CD	GLN	B	240	168.890	173.916	-32.013	1.00110.33	BS2
ATOM	34405	OE1	GLN	B	240	169.085	174.133	-30.815	1.00110.33	BS2
ATOM	34406	NE2	GLN	B	240	167.735	173.448	-32.481	1.00110.33	BS2
ATOM	34407	C	GLN	B	240	172.471	171.269	-32.544	1.00151.29	BS2
ATOM	34408	O	GLN	B	240	172.881	170.470	-33.413	1.00151.29	BS2
ATOM	34409	OXT	GLN	B	240	173.108	171.589	-31.515	1.00161.01	BS2
TER	34409		GLN	B	240					BS2

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ATOM	34410	C	GLY	C	2	205.265	128.489	7.822	1.00	75.33	CS3
ATOM	34411	O	GLY	C	2	206.415	128.398	7.390	1.00	75.33	CS3
ATOM	34412	N	GLY	C	2	204.235	126.308	7.115	1.00	75.33	CS3
ATOM	34413	CA	GLY	C	2	204.495	127.260	8.248	1.00	75.33	CS3
ATOM	34414	N	ASN	C	3	204.626	129.645	7.968	1.00	74.64	CS3
ATOM	34415	CA	ASN	C	3	205.219	130.908	7.568	1.00	74.64	CS3
ATOM	34416	CB	ASN	C	3	204.931	131.134	6.077	1.00	81.76	CS3
ATOM	34417	CG	ASN	C	3	203.614	130.498	5.624	1.00	81.76	CS3
ATOM	34418	OD1	ASN	C	3	203.299	129.361	5.978	1.00	81.76	CS3
ATOM	34419	ND2	ASN	C	3	202.858	131.223	4.823	1.00	81.76	CS3
ATOM	34420	C	ASN	C	3	204.763	132.116	8.400	1.00	74.64	CS3
ATOM	34421	O	ASN	C	3	204.181	131.962	9.481	1.00	74.64	CS3
ATOM	34422	N	LYS	C	4	205.031	133.314	7.874	1.00	96.16	CS3
ATOM	34423	CA	LYS	C	4	204.707	134.601	8.508	1.00	96.16	CS3
ATOM	34424	CB	LYS	C	4	203.201	134.903	8.431	1.00	57.43	CS3
ATOM	34425	CG	LYS	C	4	202.294	133.696	8.407	1.00	57.43	CS3
ATOM	34426	CD	LYS	C	4	201.025	134.000	7.630	1.00	57.43	CS3
ATOM	34427	CE	LYS	C	4	200.179	132.746	7.463	1.00	57.43	CS3
ATOM	34428	NZ	LYS	C	4	198.995	133.010	6.600	1.00	57.43	CS3
ATOM	34429	C	LYS	C	4	205.220	134.820	9.930	1.00	96.16	CS3
ATOM	34430	O	LYS	C	4	205.020	133.991	10.818	1.00	96.16	CS3
ATOM	34431	N	ILE	C	5	205.888	135.955	10.129	1.00	86.67	CS3
ATOM	34432	CA	ILE	C	5	206.462	136.298	11.425	1.00	86.67	CS3
ATOM	34433	CB	ILE	C	5	207.621	137.312	11.290	1.00	85.73	CS3
ATOM	34434	CG2	ILE	C	5	208.910	136.590	10.989	1.00	85.73	CS3
ATOM	34435	CG1	ILE	C	5	207.296	138.343	10.215	1.00	85.73	CS3
ATOM	34436	CD1	ILE	C	5	206.012	139.089	10.465	1.00	85.73	CS3
ATOM	34437	C	ILE	C	5	205.511	136.859	12.473	1.00	86.67	CS3
ATOM	34438	O	ILE	C	5	204.489	137.482	12.160	1.00	86.67	CS3
ATOM	34439	N	HIS	C	6	205.889	136.627	13.726	1.00	58.45	CS3
ATOM	34440	CA	HIS	C	6	205.154	137.090	14.887	1.00	58.45	CS3
ATOM	34441	CB	HIS	C	6	205.979	136.788	16.122	1.00	84.46	CS3
ATOM	34442	CG	HIS	C	6	205.308	137.163	17.393	1.00	84.46	CS3
ATOM	34443	CD2	HIS	C	6	204.586	138.256	17.730	1.00	84.46	CS3
ATOM	34444	ND1	HIS	C	6	205.348	136.364	18.515	1.00	84.46	CS3
ATOM	34445	CE1	HIS	C	6	204.677	136.949	19.490	1.00	84.46	CS3
ATOM	34446	NE2	HIS	C	6	204.205	138.099	19.039	1.00	84.46	CS3
ATOM	34447	C	HIS	C	6	204.966	138.590	14.725	1.00	58.45	CS3
ATOM	34448	O	HIS	C	6	205.883	139.363	14.986	1.00	58.45	CS3
ATOM	34449	N	PRO	C	7	203.762	139.020	14.316	1.00	65.17	CS3
ATOM	34450	CD	PRO	C	7	202.543	138.206	14.451	1.00	48.78	CS3
ATOM	34451	CA	PRO	C	7	203.416	140.431	14.095	1.00	65.17	CS3
ATOM	34452	CB	PRO	C	7	201.888	140.429	14.119	1.00	48.78	CS3
ATOM	34453	CG	PRO	C	7	201.548	139.216	14.941	1.00	48.78	CS3
ATOM	34454	C	PRO	C	7	204.028	141.442	15.056	1.00	65.17	CS3
ATOM	34455	O	PRO	C	7	204.185	142.612	14.702	1.00	65.17	CS3
ATOM	34456	N	ILE	C	8	204.372	141.002	16.265	1.00	57.19	CS3
ATOM	34457	CA	ILE	C	8	204.993	141.901	17.234	1.00	57.19	CS3
ATOM	34458	CB	ILE	C	8	204.916	141.347	18.661	1.00	74.07	CS3
ATOM	34459	CG2	ILE	C	8	205.791	142.180	19.590	1.00	74.07	CS3
ATOM	34460	CG1	ILE	C	8	203.465	141.346	19.136	1.00	74.07	CS3
ATOM	34461	CD1	ILE	C	8	203.285	140.759	20.519	1.00	74.07	CS3
ATOM	34462	C	ILE	C	8	206.460	142.077	16.874	1.00	57.19	CS3
ATOM	34463	O	ILE	C	8	206.894	143.178	16.531	1.00	57.19	CS3
ATOM	34464	N	GLY	C	9	207.212	140.977	16.949	1.00	77.12	CS3
ATOM	34465	CA	GLY	C	9	208.630	141.005	16.630	1.00	77.12	CS3
ATOM	34466	C	GLY	C	9	208.901	141.674	15.295	1.00	77.12	CS3
ATOM	34467	O	GLY	C	9	209.954	142.286	15.076	1.00	77.12	CS3
ATOM	34468	N	PHE	C	10	207.936	141.558	14.392	1.00	53.98	CS3
ATOM	34469	CA	PHE	C	10	208.069	142.158	13.083	1.00	53.98	CS3
ATOM	34470	CB	PHE	C	10	206.983	141.620	12.145	1.00	62.74	CS3
ATOM	34471	CG	PHE	C	10	206.999	142.249	10.771	1.00	62.74	CS3
ATOM	34472	CD1	PHE	C	10	208.167	142.277	10.011	1.00	62.74	CS3
ATOM	34473	CD2	PHE	C	10	205.850	142.822	10.238	1.00	62.74	CS3
ATOM	34474	CE1	PHE	C	10	208.185	142.870	8.740	1.00	62.74	CS3
ATOM	34475	CE2	PHE	C	10	205.864	143.413	8.970	1.00	62.74	CS3
ATOM	34476	CZ	PHE	C	10	207.032	143.437	8.222	1.00	62.74	CS3
ATOM	34477	C	PHE	C	10	207.964	143.676	13.179	1.00	53.98	CS3
ATOM	34478	O	PHE	C	10	208.722	144.398	12.530	1.00	53.98	CS3
ATOM	34479	N	ARG	C	11	207.033	144.157	13.999	1.00	70.32	CS3
ATOM	34480	CA	ARG	C	11	206.813	145.591	14.145	1.00	70.32	CS3
ATOM	34481	CB	ARG	C	11	205.331	145.839	14.427	1.00	63.95	CS3
ATOM	34482	CG	ARG	C	11	204.481	145.677	13.187	1.00	63.95	CS3
ATOM	34483	CD	ARG	C	11	203.197	144.895	13.446	1.00	63.95	CS3
ATOM	34484	NE	ARG	C	11	202.662	144.340	12.205	1.00	63.95	CS3
ATOM	34485	CZ	ARG	C	11	202.463	145.060	11.104	1.00	63.95	CS3
ATOM	34486	NH1	ARG	C	11	202.754	146.361	11.098	1.00	63.95	CS3

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ATOM	34487	NH2	ARG	C	11	201.988	144.483	10.006	1.00	63.95	CS3
ATOM	34488	C	ARG	C	11	207.674	146.327	15.172	1.00	70.32	CS3
ATOM	34489	O	ARG	C	11	207.757	147.558	15.146	1.00	70.32	CS3
ATOM	34490	N	LEU	C	12	208.326	145.579	16.058	1.00	51.22	CS3
ATOM	34491	CA	LEU	C	12	209.166	146.165	17.097	1.00	51.22	CS3
ATOM	34492	CB	LEU	C	12	210.157	145.123	17.585	1.00	48.65	CS3
ATOM	34493	CG	LEU	C	12	209.487	144.358	18.723	1.00	48.65	CS3
ATOM	34494	CD1	LEU	C	12	210.260	143.105	19.112	1.00	48.65	CS3
ATOM	34495	CD2	LEU	C	12	209.375	145.322	19.904	1.00	48.65	CS3
ATOM	34496	C	LEU	C	12	209.888	147.457	16.739	1.00	51.22	CS3
ATOM	34497	O	LEU	C	12	210.190	148.276	17.611	1.00	51.22	CS3
ATOM	34498	N	GLY	C	13	210.172	147.643	15.459	1.00	90.59	CS3
ATOM	34499	CA	GLY	C	13	210.832	148.863	15.048	1.00	90.59	CS3
ATOM	34500	C	GLY	C	13	209.892	150.022	15.299	1.00	90.59	CS3
ATOM	34501	O	GLY	C	13	210.197	150.934	16.067	1.00	90.59	CS3
ATOM	34502	N	ILE	C	14	208.732	149.972	14.655	1.00	61.25	CS3
ATOM	34503	CA	ILE	C	14	207.736	151.019	14.807	1.00	61.25	CS3
ATOM	34504	CB	ILE	C	14	207.309	151.566	13.432	1.00	100.88	CS3
ATOM	34505	CG2	ILE	C	14	206.629	152.920	13.597	1.00	100.88	CS3
ATOM	34506	CG1	ILE	C	14	208.539	151.706	12.526	1.00	100.88	CS3
ATOM	34507	CD1	ILE	C	14	209.626	152.622	13.079	1.00	100.88	CS3
ATOM	34508	C	ILE	C	14	206.521	150.457	15.547	1.00	61.25	CS3
ATOM	34509	O	ILE	C	14	206.634	149.449	16.247	1.00	61.25	CS3
ATOM	34510	N	THR	C	15	205.372	151.110	15.386	1.00	58.40	CS3
ATOM	34511	CA	THR	C	15	204.117	150.716	16.034	1.00	58.40	CS3
ATOM	34512	CB	THR	C	15	202.991	150.468	14.980	1.00	85.24	CS3
ATOM	34513	OG1	THR	C	15	203.446	149.550	13.973	1.00	85.24	CS3
ATOM	34514	CG2	THR	C	15	202.570	151.784	14.332	1.00	85.24	CS3
ATOM	34515	C	THR	C	15	204.141	149.517	17.000	1.00	58.40	CS3
ATOM	34516	O	THR	C	15	203.395	148.551	16.808	1.00	58.40	CS3
ATOM	34517	N	ARG	C	16	204.975	149.594	18.042	1.00	55.74	CS3
ATOM	34518	CA	ARG	C	16	205.087	148.529	19.047	1.00	55.74	CS3
ATOM	34519	CB	ARG	C	16	204.915	147.161	18.405	1.00	75.73	CS3
ATOM	34520	CG	ARG	C	16	204.768	146.057	19.401	1.00	75.73	CS3
ATOM	34521	CD	ARG	C	16	203.360	145.998	19.904	1.00	75.73	CS3
ATOM	34522	NE	ARG	C	16	203.180	144.856	20.790	1.00	75.73	CS3
ATOM	34523	CZ	ARG	C	16	201.996	144.424	21.215	1.00	75.73	CS3
ATOM	34524	NH1	ARG	C	16	200.888	145.044	20.823	1.00	75.73	CS3
ATOM	34525	NH2	ARG	C	16	201.914	143.383	22.042	1.00	75.73	CS3
ATOM	34526	C	ARG	C	16	206.442	148.553	19.747	1.00	55.74	CS3
ATOM	34527	O	ARG	C	16	207.435	148.108	19.178	1.00	55.74	CS3
ATOM	34528	N	ASP	C	17	206.476	149.052	20.983	1.00	74.46	CS3
ATOM	34529	CA	ASP	C	17	207.720	149.138	21.757	1.00	74.46	CS3
ATOM	34530	CB	ASP	C	17	207.630	150.248	22.815	1.00	131.04	CS3
ATOM	34531	CG	ASP	C	17	207.059	151.546	22.260	1.00	131.04	CS3
ATOM	34532	OD1	ASP	C	17	207.563	152.040	21.226	1.00	131.04	CS3
ATOM	34533	OD2	ASP	C	17	206.103	152.078	22.866	1.00	131.04	CS3
ATOM	34534	C	ASP	C	17	208.024	147.811	22.445	1.00	74.46	CS3
ATOM	34535	O	ASP	C	17	207.186	146.899	22.455	1.00	74.46	CS3
ATOM	34536	N	TRP	C	18	209.223	147.716	23.019	1.00	79.79	CS3
ATOM	34537	CA	TRP	C	18	209.670	146.505	23.706	1.00	79.79	CS3
ATOM	34538	CB	TRP	C	18	211.146	146.635	24.099	1.00	71.38	CS3
ATOM	34539	CG	TRP	C	18	212.114	146.299	22.990	1.00	71.38	CS3
ATOM	34540	CD2	TRP	C	18	212.265	146.985	21.747	1.00	71.38	CS3
ATOM	34541	CE2	TRP	C	18	213.277	146.317	21.020	1.00	71.38	CS3
ATOM	34542	CE3	TRP	C	18	211.644	148.098	21.173	1.00	71.38	CS3
ATOM	34543	CD1	TRP	C	18	213.017	145.269	22.970	1.00	71.38	CS3
ATOM	34544	NE1	TRP	C	18	213.719	145.274	21.790	1.00	71.38	CS3
ATOM	34545	CZ2	TRP	C	18	213.680	146.726	19.750	1.00	71.38	CS3
ATOM	34546	CZ3	TRP	C	18	212.045	148.506	19.905	1.00	71.38	CS3
ATOM	34547	CH2	TRP	C	18	213.054	147.820	19.208	1.00	71.38	CS3
ATOM	34548	C	TRP	C	18	208.843	146.176	24.946	1.00	79.79	CS3
ATOM	34549	O	TRP	C	18	207.867	146.859	25.244	1.00	79.79	CS3
ATOM	34550	N	GLU	C	19	209.241	145.120	25.656	1.00	62.65	CS3
ATOM	34551	CA	GLU	C	19	208.559	144.682	26.880	1.00	62.65	CS3
ATOM	34552	CB	GLU	C	19	207.893	143.312	26.673	1.00	119.28	CS3
ATOM	34553	CG	GLU	C	19	206.646	143.088	27.534	1.00	119.28	CS3
ATOM	34554	CD	GLU	C	19	206.035	141.698	27.373	1.00	119.28	CS3
ATOM	34555	OE1	GLU	C	19	206.583	140.729	27.940	1.00	119.28	CS3
ATOM	34556	OE2	GLU	C	19	205.004	141.575	26.676	1.00	119.28	CS3
ATOM	34557	C	GLU	C	19	209.617	144.593	27.981	1.00	62.65	CS3
ATOM	34558	O	GLU	C	19	209.465	143.879	28.969	1.00	62.65	CS3
ATOM	34559	N	SER	C	20	210.699	145.326	27.763	1.00	89.75	CS3
ATOM	34560	CA	SER	C	20	211.836	145.414	28.670	1.00	89.75	CS3
ATOM	34561	CB	SER	C	20	212.590	144.075	28.797	1.00	49.78	CS3
ATOM	34562	OG	SER	C	20	212.133	143.269	29.875	1.00	49.78	CS3
ATOM	34563	C	SER	C	20	212.740	146.428	27.991	1.00	89.75	CS3

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ATOM	34564	O	SER	C	20	213.332	146.141	26.949	1.00	89.75	CS3
ATOM	34565	N	ARG	C	21	212.819	147.625	28.557	1.00	96.31	CS3
ATOM	34566	CA	ARG	C	21	213.667	148.659	27.994	1.00	96.31	CS3
ATOM	34567	CB	ARG	C	21	212.826	149.865	27.559	1.00126.49		CS3
ATOM	34568	CG	ARG	C	21	211.555	150.060	28.362	1.00126.49		CS3
ATOM	34569	CD	ARG	C	21	210.351	150.269	27.448	1.00126.49		CS3
ATOM	34570	NE	ARG	C	21	209.091	150.285	28.194	1.00126.49		CS3
ATOM	34571	CZ	ARG	C	21	207.882	150.280	27.635	1.00126.49		CS3
ATOM	34572	NH1	ARG	C	21	207.755	150.260	26.312	1.00126.49		CS3
ATOM	34573	NH2	ARG	C	21	206.798	150.287	28.400	1.00126.49		CS3
ATOM	34574	C	ARG	C	21	214.700	149.050	29.030	1.00	96.31	CS3
ATOM	34575	O	ARG	C	21	214.541	150.027	29.751	1.00	96.31	CS3
ATOM	34576	N	TRP	C	22	215.755	148.250	29.106	1.00100.00		CS3
ATOM	34577	CA	TRP	C	22	216.839	148.483	30.045	1.00100.00		CS3
ATOM	34578	CB	TRP	C	22	216.607	147.680	31.316	1.00	78.29	CS3
ATOM	34579	CG	TRP	C	22	216.230	146.257	31.068	1.00	78.29	CS3
ATOM	34580	CD2	TRP	C	22	217.122	145.152	30.839	1.00	78.29	CS3
ATOM	34581	CE2	TRP	C	22	216.323	143.988	30.719	1.00	78.29	CS3
ATOM	34582	CE3	TRP	C	22	218.517	145.031	30.722	1.00	78.29	CS3
ATOM	34583	CD1	TRP	C	22	214.965	145.735	31.067	1.00	78.29	CS3
ATOM	34584	NE1	TRP	C	22	215.013	144.373	30.863	1.00	78.29	CS3
ATOM	34585	CZ2	TRP	C	22	216.879	142.710	30.492	1.00	78.29	CS3
ATOM	34586	CZ3	TRP	C	22	219.069	143.759	30.494	1.00	78.29	CS3
ATOM	34587	CH2	TRP	C	22	218.247	142.619	30.383	1.00	78.29	CS3
ATOM	34588	C	TRP	C	22	218.164	148.074	29.417	1.00100.00		CS3
ATOM	34589	O	TRP	C	22	218.270	146.995	28.835	1.00100.00		CS3
ATOM	34590	N	TYR	C	23	219.171	148.936	29.546	1.00	89.44	CS3
ATOM	34591	CA	TYR	C	23	220.498	148.691	28.979	1.00	89.44	CS3
ATOM	34592	CB	TYR	C	23	221.199	150.031	28.735	1.00	95.26	CS3
ATOM	34593	CG	TYR	C	23	222.590	149.915	28.158	1.00	95.26	CS3
ATOM	34594	CD1	TYR	C	23	222.868	150.364	26.874	1.00	95.26	CS3
ATOM	34595	CE1	TYR	C	23	224.148	150.250	26.338	1.00	95.26	CS3
ATOM	34596	CD2	TYR	C	23	223.629	149.348	28.897	1.00	95.26	CS3
ATOM	34597	CE2	TYR	C	23	224.904	149.224	28.374	1.00	95.26	CS3
ATOM	34598	CZ	TYR	C	23	225.159	149.674	27.096	1.00	95.26	CS3
ATOM	34599	OH	TYR	C	23	226.419	149.526	26.571	1.00	95.26	CS3
ATOM	34600	C	TYR	C	23	221.388	147.798	29.847	1.00	89.44	CS3
ATOM	34601	O	TYR	C	23	221.273	147.777	31.068	1.00	89.44	CS3
ATOM	34602	N	ALA	C	24	222.282	147.060	29.202	1.00	82.70	CS3
ATOM	34603	CA	ALA	C	24	223.206	146.187	29.916	1.00	82.70	CS3
ATOM	34604	CB	ALA	C	24	222.488	144.916	30.384	1.00	87.00	CS3
ATOM	34605	C	ALA	C	24	224.383	145.838	29.006	1.00	82.70	CS3
ATOM	34606	O	ALA	C	24	224.578	146.475	27.969	1.00	82.70	CS3
ATOM	34607	N	GLY	C	25	225.168	144.833	29.392	1.00	74.28	CS3
ATOM	34608	CA	GLY	C	25	226.308	144.463	28.575	1.00	74.28	CS3
ATOM	34609	C	GLY	C	25	227.074	143.226	28.997	1.00	74.28	CS3
ATOM	34610	O	GLY	C	25	227.148	142.878	30.177	1.00	74.28	CS3
ATOM	34611	N	LYS	C	26	227.640	142.568	27.991	1.00	94.80	CS3
ATOM	34612	CA	LYS	C	26	228.452	141.361	28.123	1.00	94.80	CS3
ATOM	34613	CB	LYS	C	26	229.923	141.712	27.864	1.00112.78		CS3
ATOM	34614	CG	LYS	C	26	230.157	143.176	27.495	1.00112.78		CS3
ATOM	34615	CD	LYS	C	26	229.392	143.568	26.238	1.00112.78		CS3
ATOM	34616	CE	LYS	C	26	228.943	145.015	26.306	1.00112.78		CS3
ATOM	34617	NZ	LYS	C	26	227.954	145.337	25.242	1.00112.78		CS3
ATOM	34618	C	LYS	C	26	228.337	140.561	29.423	1.00	94.80	CS3
ATOM	34619	O	LYS	C	26	227.626	139.556	29.478	1.00	94.80	CS3
ATOM	34620	N	LYS	C	27	229.036	140.993	30.466	1.00	93.31	CS3
ATOM	34621	CA	LYS	C	27	229.001	140.265	31.729	1.00	93.31	CS3
ATOM	34622	CB	LYS	C	27	230.108	140.772	32.653	1.00	97.72	CS3
ATOM	34623	CG	LYS	C	27	231.506	140.548	32.117	1.00	97.72	CS3
ATOM	34624	CD	LYS	C	27	232.533	141.251	32.976	1.00	97.72	CS3
ATOM	34625	CE	LYS	C	27	233.903	141.189	32.339	1.00	97.72	CS3
ATOM	34626	NZ	LYS	C	27	234.857	142.041	33.087	1.00	97.72	CS3
ATOM	34627	C	LYS	C	27	227.661	140.331	32.455	1.00	93.31	CS3
ATOM	34628	O	LYS	C	27	227.396	139.528	33.357	1.00	93.31	CS3
ATOM	34629	N	GLN	C	28	226.814	141.274	32.058	1.00	92.20	CS3
ATOM	34630	CA	GLN	C	28	225.518	141.435	32.700	1.00	92.20	CS3
ATOM	34631	CB	GLN	C	28	225.254	142.908	32.957	1.00	94.58	CS3
ATOM	34632	CG	GLN	C	28	226.200	143.526	33.940	1.00	94.58	CS3
ATOM	34633	CD	GLN	C	28	225.675	144.844	34.448	1.00	94.58	CS3
ATOM	34634	OE1	GLN	C	28	224.691	144.888	35.192	1.00	94.58	CS3
ATOM	34635	NE2	GLN	C	28	226.314	145.933	34.036	1.00	94.58	CS3
ATOM	34636	C	GLN	C	28	224.324	140.847	31.954	1.00	92.20	CS3
ATOM	34637	O	GLN	C	28	223.798	139.802	32.342	1.00	92.20	CS3
ATOM	34638	N	TYR	C	29	223.900	141.547	30.902	1.00	80.70	CS3
ATOM	34639	CA	TYR	C	29	222.757	141.171	30.059	1.00	80.70	CS3
ATOM	34640	CB	TYR	C	29	223.123	141.302	28.587	1.00	52.12	CS3

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ATOM	34641	CG	TYR	C	29	221.952	141.626	27.693	1.00	52.12	CS3
ATOM	34642	CD1	TYR	C	29	221.704	142.945	27.279	1.00	52.12	CS3
ATOM	34643	CE1	TYR	C	29	220.633	143.248	26.444	1.00	52.12	CS3
ATOM	34644	CD2	TYR	C	29	221.095	140.621	27.251	1.00	52.12	CS3
ATOM	34645	CE2	TYR	C	29	220.020	140.908	26.418	1.00	52.12	CS3
ATOM	34646	CZ	TYR	C	29	219.792	142.220	26.016	1.00	52.12	CS3
ATOM	34647	OH	TYR	C	29	218.720	142.494	25.190	1.00	52.12	CS3
ATOM	34648	C	TYR	C	29	222.145	139.791	30.264	1.00	80.70	CS3
ATOM	34649	O	TYR	C	29	220.938	139.681	30.479	1.00	80.70	CS3
ATOM	34650	N	ARG	C	30	222.961	138.741	30.188	1.00	83.94	CS3
ATOM	34651	CA	ARG	C	30	222.439	137.385	30.348	1.00	83.94	CS3
ATOM	34652	CB	ARG	C	30	223.475	136.348	29.907	1.00	78.28	CS3
ATOM	34653	CG	ARG	C	30	224.611	136.158	30.863	1.00	78.28	CS3
ATOM	34654	CD	ARG	C	30	225.374	134.891	30.528	1.00	78.28	CS3
ATOM	34655	NE	ARG	C	30	226.470	134.660	31.463	1.00	78.28	CS3
ATOM	34656	CZ	ARG	C	30	227.456	135.526	31.685	1.00	78.28	CS3
ATOM	34657	NH1	ARG	C	30	227.488	136.688	31.036	1.00	78.28	CS3
ATOM	34658	NH2	ARG	C	30	228.405	135.228	32.566	1.00	78.28	CS3
ATOM	34659	C	ARG	C	30	221.963	137.069	31.765	1.00	83.94	CS3
ATOM	34660	O	ARG	C	30	221.110	136.207	31.958	1.00	83.94	CS3
ATOM	34661	N	HIS	C	31	222.514	137.758	32.755	1.00	87.11	CS3
ATOM	34662	CA	HIS	C	31	222.104	137.546	34.137	1.00	87.11	CS3
ATOM	34663	CB	HIS	C	31	223.203	137.998	35.093	1.00	73.74	CS3
ATOM	34664	CG	HIS	C	31	224.422	137.137	35.068	1.00	73.74	CS3
ATOM	34665	CD2	HIS	C	31	225.721	137.435	34.826	1.00	73.74	CS3
ATOM	34666	ND1	HIS	C	31	224.385	135.790	35.357	1.00	73.74	CS3
ATOM	34667	CE1	HIS	C	31	225.609	135.295	35.298	1.00	73.74	CS3
ATOM	34668	NE2	HIS	C	31	226.439	136.273	34.978	1.00	73.74	CS3
ATOM	34669	C	HIS	C	31	220.860	138.389	34.383	1.00	87.11	CS3
ATOM	34670	O	HIS	C	31	219.829	137.908	34.862	1.00	87.11	CS3
ATOM	34671	N	LEU	C	32	220.988	139.663	34.039	1.00	80.04	CS3
ATOM	34672	CA	LEU	C	32	219.928	140.635	34.195	1.00	80.04	CS3
ATOM	34673	CB	LEU	C	32	220.407	141.969	33.628	1.00	84.41	CS3
ATOM	34674	CG	LEU	C	32	219.865	143.284	34.189	1.00	84.41	CS3
ATOM	34675	CD1	LEU	C	32	220.657	144.445	33.556	1.00	84.41	CS3
ATOM	34676	CD2	LEU	C	32	218.355	143.408	33.921	1.00	84.41	CS3
ATOM	34677	C	LEU	C	32	218.662	140.168	33.471	1.00	80.04	CS3
ATOM	34678	O	LEU	C	32	217.552	140.403	33.946	1.00	80.04	CS3
ATOM	34679	N	LEU	C	33	218.834	139.500	32.330	1.00	95.42	CS3
ATOM	34680	CA	LEU	C	33	217.705	139.008	31.534	1.00	95.42	CS3
ATOM	34681	CB	LEU	C	33	218.178	138.603	30.129	1.00	74.04	CS3
ATOM	34682	CG	LEU	C	33	217.154	138.198	29.050	1.00	74.04	CS3
ATOM	34683	CD1	LEU	C	33	217.878	137.992	27.732	1.00	74.04	CS3
ATOM	34684	CD2	LEU	C	33	216.414	136.928	29.436	1.00	74.04	CS3
ATOM	34685	C	LEU	C	33	216.988	137.824	32.174	1.00	95.42	CS3
ATOM	34686	O	LEU	C	33	215.756	137.787	32.216	1.00	95.42	CS3
ATOM	34687	N	LEU	C	34	217.753	136.848	32.654	1.00	58.77	CS3
ATOM	34688	CA	LEU	C	34	217.158	135.671	33.271	1.00	58.77	CS3
ATOM	34689	CB	LEU	C	34	218.231	134.764	33.859	1.00	40.81	CS3
ATOM	34690	CG	LEU	C	34	217.807	133.295	33.979	1.00	40.81	CS3
ATOM	34691	CD1	LEU	C	34	218.878	132.513	34.723	1.00	40.81	CS3
ATOM	34692	CD2	LEU	C	34	216.487	133.182	34.703	1.00	40.81	CS3
ATOM	34693	C	LEU	C	34	216.235	136.121	34.380	1.00	58.77	CS3
ATOM	34694	O	LEU	C	34	215.198	135.511	34.630	1.00	58.77	CS3
ATOM	34695	N	GLU	C	35	216.627	137.202	35.042	1.00	99.19	CS3
ATOM	34696	CA	GLU	C	35	215.852	137.775	36.134	1.00	99.19	CS3
ATOM	34697	CB	GLU	C	35	216.579	139.004	36.672	1.00	115.15	CS3
ATOM	34698	CG	GLU	C	35	215.948	139.636	37.884	1.00	115.15	CS3
ATOM	34699	CD	GLU	C	35	216.989	140.239	38.809	1.00	115.15	CS3
ATOM	34700	OE1	GLU	C	35	217.652	139.469	39.539	1.00	115.15	CS3
ATOM	34701	OE2	GLU	C	35	217.152	141.477	38.795	1.00	115.15	CS3
ATOM	34702	C	GLU	C	35	214.448	138.149	35.669	1.00	99.19	CS3
ATOM	34703	O	GLU	C	35	213.455	137.710	36.252	1.00	99.19	CS3
ATOM	34704	N	ASP	C	36	214.376	138.959	34.615	1.00	70.19	CS3
ATOM	34705	CA	ASP	C	36	213.097	139.383	34.059	1.00	70.19	CS3
ATOM	34706	CB	ASP	C	36	213.293	140.147	32.745	1.00	138.38	CS3
ATOM	34707	CG	ASP	C	36	214.062	141.441	32.923	1.00	138.38	CS3
ATOM	34708	OD1	ASP	C	36	214.030	142.272	31.992	1.00	138.38	CS3
ATOM	34709	OD2	ASP	C	36	214.701	141.625	33.981	1.00	138.38	CS3
ATOM	34710	C	ASP	C	36	212.226	138.167	33.785	1.00	70.19	CS3
ATOM	34711	O	ASP	C	36	211.017	138.174	34.042	1.00	70.19	CS3
ATOM	34712	N	GLN	C	37	212.849	137.124	33.249	1.00	80.98	CS3
ATOM	34713	CA	GLN	C	37	212.129	135.901	32.929	1.00	80.98	CS3
ATOM	34714	CB	GLN	C	37	213.061	134.931	32.185	1.00	69.32	CS3
ATOM	34715	CG	GLN	C	37	212.611	134.581	30.758	1.00	69.32	CS3
ATOM	34716	CD	GLN	C	37	211.993	135.763	30.008	1.00	69.32	CS3
ATOM	34717	OE1	GLN	C	37	212.584	136.842	29.917	1.00	69.32	CS3

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ATOM	34718	NE2	GLN	C	37	210.799	135.554	29.464	1.00	69.32	CS3
ATOM	34719	C	GLN	C	37	211.565	135.273	34.203	1.00	80.98	CS3
ATOM	34720	O	GLN	C	37	210.422	134.806	34.224	1.00	80.98	CS3
ATOM	34721	N	ARG	C	38	212.367	135.277	35.264	1.00	79.12	CS3
ATOM	34722	CA	ARG	C	38	211.943	134.732	36.547	1.00	79.12	CS3
ATOM	34723	CB	ARG	C	38	213.057	134.886	37.578	1.00	106.76	CS3
ATOM	34724	CG	ARG	C	38	214.212	133.934	37.386	1.00	106.76	CS3
ATOM	34725	CD	ARG	C	38	213.873	132.540	37.897	1.00	106.76	CS3
ATOM	34726	NE	ARG	C	38	214.947	131.585	37.628	1.00	106.76	CS3
ATOM	34727	CZ	ARG	C	38	216.226	131.780	37.948	1.00	106.76	CS3
ATOM	34728	NH1	ARG	C	38	216.601	132.903	38.554	1.00	106.76	CS3
ATOM	34729	NH2	ARG	C	38	217.133	130.854	37.658	1.00	106.76	CS3
ATOM	34730	C	ARG	C	38	210.723	135.521	36.994	1.00	79.12	CS3
ATOM	34731	O	ARG	C	38	209.727	134.951	37.453	1.00	79.12	CS3
ATOM	34732	N	ILE	C	39	210.821	136.841	36.856	1.00	56.03	CS3
ATOM	34733	CA	ILE	C	39	209.739	137.743	37.220	1.00	56.03	CS3
ATOM	34734	CB	ILE	C	39	210.072	139.193	36.835	1.00	84.25	CS3
ATOM	34735	CG2	ILE	C	39	208.842	140.078	37.014	1.00	84.25	CS3
ATOM	34736	CG1	ILE	C	39	211.254	139.691	37.675	1.00	84.25	CS3
ATOM	34737	CD1	ILE	C	39	211.744	141.087	37.301	1.00	84.25	CS3
ATOM	34738	C	ILE	C	39	208.466	137.319	36.502	1.00	56.03	CS3
ATOM	34739	O	ILE	C	39	207.558	136.767	37.127	1.00	56.03	CS3
ATOM	34740	N	ARG	C	40	208.403	137.567	35.193	1.00	79.75	CS3
ATOM	34741	CA	ARG	C	40	207.231	137.187	34.406	1.00	79.75	CS3
ATOM	34742	CB	ARG	C	40	207.546	137.199	32.908	1.00	58.96	CS3
ATOM	34743	CG	ARG	C	40	207.954	138.555	32.374	1.00	58.96	CS3
ATOM	34744	CD	ARG	C	40	207.714	138.669	30.873	1.00	58.96	CS3
ATOM	34745	NE	ARG	C	40	208.146	139.966	30.353	1.00	58.96	CS3
ATOM	34746	CZ	ARG	C	40	209.402	140.414	30.404	1.00	58.96	CS3
ATOM	34747	NH1	ARG	C	40	210.352	139.665	30.956	1.00	58.96	CS3
ATOM	34748	NH2	ARG	C	40	209.716	141.605	29.899	1.00	58.96	CS3
ATOM	34749	C	ARG	C	40	206.775	135.792	34.811	1.00	79.75	CS3
ATOM	34750	O	ARG	C	40	205.579	135.499	34.829	1.00	79.75	CS3
ATOM	34751	N	GLY	C	41	207.740	134.938	35.143	1.00	72.09	CS3
ATOM	34752	CA	GLY	C	41	207.427	133.583	35.559	1.00	72.09	CS3
ATOM	34753	C	GLY	C	41	206.369	133.530	36.647	1.00	72.09	CS3
ATOM	34754	O	GLY	C	41	205.254	133.054	36.414	1.00	72.09	CS3
ATOM	34755	N	LEU	C	42	206.713	134.028	37.833	1.00	114.34	CS3
ATOM	34756	CA	LEU	C	42	205.792	134.027	38.967	1.00	114.34	CS3
ATOM	34757	CB	LEU	C	42	206.506	134.496	40.237	1.00	136.04	CS3
ATOM	34758	CG	LEU	C	42	207.281	133.421	40.999	1.00	136.04	CS3
ATOM	34759	CD1	LEU	C	42	207.939	134.037	42.219	1.00	136.04	CS3
ATOM	34760	CD2	LEU	C	42	206.332	132.303	41.417	1.00	136.04	CS3
ATOM	34761	C	LEU	C	42	204.535	134.860	38.770	1.00	114.34	CS3
ATOM	34762	O	LEU	C	42	203.484	134.531	39.313	1.00	114.34	CS3
ATOM	34763	N	LEU	C	43	204.635	135.935	37.997	1.00	93.48	CS3
ATOM	34764	CA	LEU	C	43	203.480	136.789	37.765	1.00	93.48	CS3
ATOM	34765	CB	LEU	C	43	203.908	138.086	37.083	1.00	85.16	CS3
ATOM	34766	CG	LEU	C	43	204.873	138.917	37.928	1.00	85.16	CS3
ATOM	34767	CD1	LEU	C	43	204.927	140.353	37.409	1.00	85.16	CS3
ATOM	34768	CD2	LEU	C	43	204.407	138.893	39.373	1.00	85.16	CS3
ATOM	34769	C	LEU	C	43	202.375	136.121	36.957	1.00	93.48	CS3
ATOM	34770	O	LEU	C	43	201.198	136.216	37.310	1.00	93.48	CS3
ATOM	34771	N	GLU	C	44	202.740	135.451	35.870	1.00	94.30	CS3
ATOM	34772	CA	GLU	C	44	201.740	134.780	35.058	1.00	94.30	CS3
ATOM	34773	CB	GLU	C	44	202.363	134.312	33.745	1.00	134.98	CS3
ATOM	34774	CG	GLU	C	44	202.755	135.489	32.860	1.00	134.98	CS3
ATOM	34775	CD	GLU	C	44	203.409	135.082	31.556	1.00	134.98	CS3
ATOM	34776	OE1	GLU	C	44	202.789	134.307	30.794	1.00	134.98	CS3
ATOM	34777	OE2	GLU	C	44	204.541	135.549	31.290	1.00	134.98	CS3
ATOM	34778	C	GLU	C	44	201.151	133.623	35.851	1.00	94.30	CS3
ATOM	34779	O	GLU	C	44	199.936	133.438	35.868	1.00	94.30	CS3
ATOM	34780	N	LYS	C	45	202.009	132.863	36.529	1.00	127.18	CS3
ATOM	34781	CA	LYS	C	45	201.560	131.740	37.356	1.00	127.18	CS3
ATOM	34782	CB	LYS	C	45	202.752	131.092	38.070	1.00	110.30	CS3
ATOM	34783	CG	LYS	C	45	203.404	129.935	37.328	1.00	110.30	CS3
ATOM	34784	CD	LYS	C	45	202.578	128.664	37.453	1.00	110.30	CS3
ATOM	34785	CE	LYS	C	45	203.357	127.445	36.963	1.00	110.30	CS3
ATOM	34786	NZ	LYS	C	45	202.634	126.159	37.220	1.00	110.30	CS3
ATOM	34787	C	LYS	C	45	200.553	132.218	38.407	1.00	127.18	CS3
ATOM	34788	O	LYS	C	45	199.560	131.544	38.683	1.00	127.18	CS3
ATOM	34789	N	GLU	C	46	200.820	133.384	38.989	1.00	106.84	CS3
ATOM	34790	CA	GLU	C	46	199.952	133.956	40.014	1.00	106.84	CS3
ATOM	34791	CB	GLU	C	46	200.750	134.901	40.920	1.00	153.59	CS3
ATOM	34792	CG	GLU	C	46	201.849	134.237	41.740	1.00	153.59	CS3
ATOM	34793	CD	GLU	C	46	201.314	133.264	42.776	1.00	153.59	CS3
ATOM	34794	OE1	GLU	C	46	200.435	133.658	43.571	1.00	153.59	CS3

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ATOM	34795	OE2	GLU	C	46	202.647	132.263	41.590	1.00189.28	CS3
ATOM	34796	C	GLU	C	46	199.086	135.105	39.024	1.00126.08	CS3
ATOM	34797	O	GLU	C	46	197.965	134.599	38.935	1.00126.08	CS3
ATOM	34798	N	LEU	C	47	199.371	136.356	38.672	1.00 98.10	CS3
ATOM	34799	CA	LEU	C	47	198.388	137.305	38.157	1.00 98.10	CS3
ATOM	34800	CB	LEU	C	47	199.101	138.583	37.707	1.00 95.41	CS3
ATOM	34801	CG	LEU	C	47	199.762	139.421	38.805	1.00 95.41	CS3
ATOM	34802	CD1	LEU	C	47	200.779	138.562	39.553	1.00 95.41	CS3
ATOM	34803	CD2	LEU	C	47	200.422	140.662	38.193	1.00 95.41	CS3
ATOM	34804	C	LEU	C	47	197.477	136.827	37.029	1.00 98.10	CS3
ATOM	34805	O	LEU	C	47	196.937	137.644	36.277	1.00 98.10	CS3
ATOM	34806	N	TYR	C	48	197.285	135.517	36.913	1.00125.05	CS3
ATOM	34807	CA	TYR	C	48	196.438	134.985	35.860	1.00125.05	CS3
ATOM	34808	CB	TYR	C	48	196.482	133.452	35.856	1.00128.49	CS3
ATOM	34809	CG	TYR	C	48	195.723	132.849	34.694	1.00128.49	CS3
ATOM	34810	CD1	TYR	C	48	195.762	133.449	33.430	1.00128.49	CS3
ATOM	34811	CE1	TYR	C	48	195.049	132.923	32.356	1.00128.49	CS3
ATOM	34812	CD2	TYR	C	48	194.954	131.698	34.854	1.00128.49	CS3
ATOM	34813	CE2	TYR	C	48	194.236	131.160	33.783	1.00128.49	CS3
ATOM	34814	CZ	TYR	C	48	194.289	131.781	32.539	1.00128.49	CS3
ATOM	34815	OH	TYR	C	48	193.573	131.274	31.479	1.00128.49	CS3
ATOM	34816	C	TYR	C	48	194.995	135.469	35.980	1.00125.05	CS3
ATOM	34817	O	TYR	C	48	194.475	136.119	35.068	1.00125.05	CS3
ATOM	34818	N	SER	C	49	194.364	135.167	37.113	1.00115.78	CS3
ATOM	34819	CA	SER	C	49	192.973	135.548	37.359	1.00115.78	CS3
ATOM	34820	CB	SER	C	49	192.513	135.021	38.724	1.00133.26	CS3
ATOM	34821	OG	SER	C	49	193.220	135.638	39.784	1.00133.26	CS3
ATOM	34822	C	SER	C	49	192.697	137.051	37.275	1.00115.78	CS3
ATOM	34823	O	SER	C	49	191.552	137.485	37.421	1.00115.78	CS3
ATOM	34824	N	ALA	C	50	193.741	137.842	37.047	1.00 80.19	CS3
ATOM	34825	CA	ALA	C	50	193.582	139.293	36.929	1.00 80.19	CS3
ATOM	34826	CB	ALA	C	50	194.695	140.008	37.684	1.00 69.29	CS3
ATOM	34827	C	ALA	C	50	193.598	139.705	35.455	1.00 80.19	CS3
ATOM	34828	O	ALA	C	50	193.123	140.786	35.084	1.00 80.19	CS3
ATOM	34829	N	GLY	C	51	194.143	138.826	34.619	1.00119.80	CS3
ATOM	34830	CA	GLY	C	51	194.218	139.109	33.202	1.00119.80	CS3
ATOM	34831	C	GLY	C	51	195.527	139.781	32.841	1.00119.80	CS3
ATOM	34832	O	GLY	C	51	195.547	140.949	32.456	1.00119.80	CS3
ATOM	34833	N	LEU	C	52	196.624	139.042	32.987	1.00127.82	CS3
ATOM	34834	CA	LEU	C	52	197.963	139.534	32.662	1.00127.82	CS3
ATOM	34835	CB	LEU	C	52	198.986	138.421	32.882	1.00120.00	CS3
ATOM	34836	CG	LEU	C	52	198.679	137.155	32.058	1.00120.00	CS3
ATOM	34837	CD1	LEU	C	52	199.902	136.250	31.999	1.00120.00	CS3
ATOM	34838	CD2	LEU	C	52	197.474	136.418	32.651	1.00120.00	CS3
ATOM	34839	C	LEU	C	52	197.975	139.926	31.189	1.00127.82	CS3
ATOM	34840	O	LEU	C	52	197.532	139.152	30.345	1.00127.82	CS3
ATOM	34841	N	ALA	C	53	198.478	141.111	30.865	1.00120.93	CS3
ATOM	34842	CA	ALA	C	53	198.503	141.525	29.465	1.00120.93	CS3
ATOM	34843	CB	ALA	C	53	197.566	142.719	29.243	1.00 55.78	CS3
ATOM	34844	C	ALA	C	53	199.899	141.859	28.966	1.00120.93	CS3
ATOM	34845	O	ALA	C	53	200.234	141.566	27.821	1.00120.93	CS3
ATOM	34846	N	ARG	C	54	200.713	142.472	29.819	1.00123.51	CS3
ATOM	34847	CA	ARG	C	54	202.069	142.834	29.427	1.00123.51	CS3
ATOM	34848	CB	ARG	C	54	202.033	143.932	28.373	1.00114.42	CS3
ATOM	34849	CG	ARG	C	54	203.384	144.223	27.780	1.00114.42	CS3
ATOM	34850	CD	ARG	C	54	203.388	145.588	27.169	1.00114.42	CS3
ATOM	34851	NE	ARG	C	54	204.574	145.810	26.360	1.00114.42	CS3
ATOM	34852	CZ	ARG	C	54	204.957	147.005	25.928	1.00114.42	CS3
ATOM	34853	NH1	ARG	C	54	204.246	148.085	26.237	1.00114.42	CS3
ATOM	34854	NH2	ARG	C	54	206.039	147.117	25.171	1.00114.42	CS3
ATOM	34855	C	ARG	C	54	202.887	143.313	30.615	1.00123.51	CS3
ATOM	34856	O	ARG	C	54	202.510	144.269	31.290	1.00123.51	CS3
ATOM	34857	N	VAL	C	55	204.016	142.660	30.860	1.00 88.52	CS3
ATOM	34858	CA	VAL	C	55	204.863	143.029	31.984	1.00 88.52	CS3
ATOM	34859	CB	VAL	C	55	205.381	141.784	32.754	1.00 71.21	CS3
ATOM	34860	CG1	VAL	C	55	206.228	142.228	33.945	1.00 71.21	CS3
ATOM	34861	CG2	VAL	C	55	204.224	140.932	33.227	1.00 71.21	CS3
ATOM	34862	C	VAL	C	55	206.083	143.819	31.562	1.00 88.52	CS3
ATOM	34863	O	VAL	C	55	207.125	143.228	31.292	1.00 88.52	CS3
ATOM	34864	N	ASP	C	56	205.970	145.142	31.509	1.00103.84	CS3
ATOM	34865	CA	ASP	C	56	207.118	145.972	31.146	1.00103.84	CS3
ATOM	34866	CB	ASP	C	56	206.716	147.444	31.096	1.00136.00	CS3
ATOM	34867	CG	ASP	C	56	205.608	147.704	30.114	1.00136.00	CS3
ATOM	34868	OD1	ASP	C	56	204.638	146.920	30.111	1.00136.00	CS3
ATOM	34869	OD2	ASP	C	56	205.703	148.692	29.356	1.00136.00	CS3
ATOM	34870	C	ASP	C	56	208.202	145.786	32.210	1.00103.84	CS3
ATOM	34871	O	ASP	C	56	207.924	145.286	33.300	1.00103.84	CS3

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ATOM	34872	N	ILE	C	57	209.434	146.172	31.893	1.00115.65	CS3
ATOM	34873	CA	ILE	C	57	210.533	146.058	32.849	1.00115.65	CS3
ATOM	34874	CB	ILE	C	57	211.142	144.631	32.903	1.00 61.83	CS3
ATOM	34875	CG2	ILE	C	57	212.487	144.670	33.635	1.00 61.83	CS3
ATOM	34876	CG1	ILE	C	57	210.181	143.662	33.608	1.00 61.83	CS3
ATOM	34877	CD1	ILE	C	57	210.768	142.276	33.860	1.00 61.83	CS3
ATOM	34878	C	ILE	C	57	211.651	147.025	32.507	1.00115.65	CS3
ATOM	34879	O	ILE	C	57	212.450	146.765	31.601	1.00115.65	CS3
ATOM	34880	N	GLU	C	58	211.697	148.139	33.235	1.00107.60	CS3
ATOM	34881	CA	GLU	C	58	212.722	149.155	33.032	1.00107.60	CS3
ATOM	34882	CB	GLU	C	58	212.100	150.549	33.056	1.00131.40	CS3
ATOM	34883	CG	GLU	C	58	211.184	150.810	31.883	1.00131.40	CS3
ATOM	34884	CD	GLU	C	58	210.463	152.137	31.983	1.00131.40	CS3
ATOM	34885	OE1	GLU	C	58	209.617	152.282	32.891	1.00131.40	CS3
ATOM	34886	OE2	GLU	C	58	210.742	153.031	31.154	1.00131.40	CS3
ATOM	34887	C	GLU	C	58	213.764	149.034	34.128	1.00107.60	CS3
ATOM	34888	O	GLU	C	58	213.510	148.413	35.160	1.00107.60	CS3
ATOM	34889	N	ARG	C	59	214.940	149.604	33.892	1.00108.82	CS3
ATOM	34890	CA	ARG	C	59	216.010	149.563	34.880	1.00108.82	CS3
ATOM	34891	CB	ARG	C	59	216.779	148.245	34.813	1.00 88.19	CS3
ATOM	34892	CG	ARG	C	59	215.971	147.008	35.147	1.00 88.19	CS3
ATOM	34893	CD	ARG	C	59	216.910	145.883	35.524	1.00 88.19	CS3
ATOM	34894	NE	ARG	C	59	216.269	144.573	35.516	1.00 88.19	CS3
ATOM	34895	CZ	ARG	C	59	216.801	143.484	36.067	1.00 88.19	CS3
ATOM	34896	NH1	ARG	C	59	217.982	143.552	36.675	1.00 88.19	CS3
ATOM	34897	NH2	ARG	C	59	216.154	142.326	36.009	1.00 88.19	CS3
ATOM	34898	C	ARG	C	59	216.989	150.708	34.692	1.00108.82	CS3
ATOM	34899	O	ARG	C	59	217.101	151.272	33.601	1.00108.82	CS3
ATOM	34900	N	ALA	C	60	217.690	151.041	35.774	1.00159.04	CS3
ATOM	34901	CA	ALA	C	60	218.680	152.113	35.778	1.00159.04	CS3
ATOM	34902	CB	ALA	C	60	217.983	153.479	35.864	1.00 92.57	CS3
ATOM	34903	C	ALA	C	60	219.650	151.930	36.949	1.00159.04	CS3
ATOM	34904	O	ALA	C	60	220.119	152.906	37.534	1.00159.04	CS3
ATOM	34905	N	ALA	C	61	219.926	150.665	37.273	1.00142.64	CS3
ATOM	34906	CA	ALA	C	61	220.841	150.252	38.345	1.00142.64	CS3
ATOM	34907	CB	ALA	C	61	221.907	151.316	38.586	1.00122.84	CS3
ATOM	34908	C	ALA	C	61	220.169	149.887	39.665	1.00142.64	CS3
ATOM	34909	O	ALA	C	61	219.789	150.757	40.444	1.00142.64	CS3
ATOM	34910	N	ASP	C	62	220.037	148.585	39.902	1.00166.48	CS3
ATOM	34911	CA	ASP	C	62	219.438	148.048	41.121	1.00166.48	CS3
ATOM	34912	CB	ASP	C	62	220.441	148.141	42.265	1.00181.79	CS3
ATOM	34913	CG	ASP	C	62	221.679	147.324	42.004	1.00181.79	CS3
ATOM	34914	OD1	ASP	C	62	221.552	146.090	41.860	1.00181.79	CS3
ATOM	34915	OD2	ASP	C	62	222.776	147.914	41.932	1.00181.79	CS3
ATOM	34916	C	ASP	C	62	218.107	148.658	41.552	1.00166.48	CS3
ATOM	34917	O	ASP	C	62	217.859	148.857	42.743	1.00166.48	CS3
ATOM	34918	N	ASN	C	63	217.254	148.945	40.576	1.00198.84	CS3
ATOM	34919	CA	ASN	C	63	215.929	149.503	40.824	1.00198.84	CS3
ATOM	34920	CB	ASN	C	63	216.010	151.006	41.119	1.00155.97	CS3
ATOM	34921	CG	ASN	C	63	216.374	151.299	42.571	1.00155.97	CS3
ATOM	34922	OD1	ASN	C	63	215.655	150.911	43.495	1.00155.97	CS3
ATOM	34923	ND2	ASN	C	63	217.492	151.988	42.775	1.00155.97	CS3
ATOM	34924	C	ASN	C	63	215.086	149.236	39.586	1.00198.84	CS3
ATOM	34925	O	ASN	C	63	214.966	150.077	38.697	1.00198.84	CS3
ATOM	34926	N	VAL	C	64	214.509	148.042	39.548	1.00126.37	CS3
ATOM	34927	CA	VAL	C	64	213.691	147.583	38.436	1.00126.37	CS3
ATOM	34928	CB	VAL	C	64	213.564	146.058	38.503	1.00115.09	CS3
ATOM	34929	CG1	VAL	C	64	213.232	145.498	37.127	1.00115.09	CS3
ATOM	34930	CG2	VAL	C	64	214.863	145.459	39.057	1.00115.09	CS3
ATOM	34931	C	VAL	C	64	212.297	148.219	38.416	1.00126.37	CS3
ATOM	34932	O	VAL	C	64	211.817	148.694	39.442	1.00126.37	CS3
ATOM	34933	N	ALA	C	65	211.652	148.212	37.249	1.00142.38	CS3
ATOM	34934	CA	ALA	C	65	210.322	148.809	37.083	1.00142.38	CS3
ATOM	34935	CB	ALA	C	65	210.217	149.477	35.709	1.00 96.08	CS3
ATOM	34936	C	ALA	C	65	209.137	147.862	37.272	1.00142.38	CS3
ATOM	34937	O	ALA	C	65	208.319	148.053	38.171	1.00142.38	CS3
ATOM	34938	N	VAL	C	66	209.042	146.852	36.414	1.00 91.61	CS3
ATOM	34939	CA	VAL	C	66	207.943	145.892	36.466	1.00 91.61	CS3
ATOM	34940	CB	VAL	C	66	208.040	144.968	37.699	1.00 70.89	CS3
ATOM	34941	CG1	VAL	C	66	206.920	143.936	37.654	1.00 70.89	CS3
ATOM	34942	CG2	VAL	C	66	209.395	144.274	37.732	1.00 70.89	CS3
ATOM	34943	C	VAL	C	66	206.630	146.663	36.520	1.00 91.61	CS3
ATOM	34944	O	VAL	C	66	206.034	146.822	37.579	1.00 91.61	CS3
ATOM	34945	N	THR	C	67	206.194	147.132	35.358	1.00112.90	CS3
ATOM	34946	CA	THR	C	67	204.973	147.921	35.221	1.00112.90	CS3
ATOM	34947	CB	THR	C	67	205.226	149.082	34.238	1.00 92.98	CS3
ATOM	34948	OG1	THR	C	67	206.493	149.685	34.548	1.00 92.98	CS3

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ATOM	34949	CG2	THR	C	67	204.118	150.127	34.326	1.00	92.98	CS3
ATOM	34950	C	THR	C	67	203.778	147.094	34.729	1.00	112.90	CS3
ATOM	34951	O	THR	C	67	203.103	147.474	33.775	1.00	112.90	CS3
ATOM	34952	N	VAL	C	68	203.523	145.971	35.395	1.00	84.61	CS3
ATOM	34953	CA	VAL	C	68	202.426	145.056	35.055	1.00	84.61	CS3
ATOM	34954	CB	VAL	C	68	202.109	144.138	36.261	1.00	83.35	CS3
ATOM	34955	CG1	VAL	C	68	200.959	143.207	35.931	1.00	83.35	CS3
ATOM	34956	CG2	VAL	C	68	203.343	143.345	36.647	1.00	83.35	CS3
ATOM	34957	C	VAL	C	68	201.103	145.696	34.598	1.00	84.61	CS3
ATOM	34958	O	VAL	C	68	200.543	146.543	35.293	1.00	84.61	CS3
ATOM	34959	N	HIS	C	69	200.601	145.271	33.437	1.00	91.53	CS3
ATOM	34960	CA	HIS	C	69	199.330	145.773	32.904	1.00	91.53	CS3
ATOM	34961	CB	HIS	C	69	199.463	146.105	31.427	1.00	93.24	CS3
ATOM	34962	CG	HIS	C	69	200.440	147.198	31.148	1.00	93.24	CS3
ATOM	34963	CD2	HIS	C	69	201.778	147.265	31.339	1.00	93.24	CS3
ATOM	34964	ND1	HIS	C	69	200.065	148.413	30.615	1.00	93.24	CS3
ATOM	34965	CE1	HIS	C	69	201.133	149.182	30.490	1.00	93.24	CS3
ATOM	34966	NE2	HIS	C	69	202.185	148.509	30.922	1.00	93.24	CS3
ATOM	34967	C	HIS	C	69	198.237	144.720	33.082	1.00	91.53	CS3
ATOM	34968	O	HIS	C	69	198.396	143.571	32.653	1.00	91.53	CS3
ATOM	34969	N	VAL	C	70	197.127	145.113	33.705	1.00	100.57	CS3
ATOM	34970	CA	VAL	C	70	196.038	144.175	33.958	1.00	100.57	CS3
ATOM	34971	CB	VAL	C	70	196.066	143.713	35.433	1.00	90.64	CS3
ATOM	34972	CG1	VAL	C	70	195.205	142.477	35.609	1.00	90.64	CS3
ATOM	34973	CG2	VAL	C	70	197.495	143.430	35.866	1.00	90.64	CS3
ATOM	34974	C	VAL	C	70	194.644	144.727	33.640	1.00	100.57	CS3
ATOM	34975	O	VAL	C	70	194.428	145.936	33.648	1.00	100.57	CS3
ATOM	34976	N	ALA	C	71	193.707	143.824	33.361	1.00	113.23	CS3
ATOM	34977	CA	ALA	C	71	192.330	144.192	33.046	1.00	113.23	CS3
ATOM	34978	CB	ALA	C	71	191.713	143.150	32.144	1.00	79.85	CS3
ATOM	34979	C	ALA	C	71	191.502	144.321	34.321	1.00	113.23	CS3
ATOM	34980	O	ALA	C	71	190.537	145.088	34.364	1.00	113.23	CS3
ATOM	34981	N	LYS	C	72	191.883	143.549	35.343	1.00	128.20	CS3
ATOM	34982	CA	LYS	C	72	191.224	143.550	36.657	1.00	128.20	CS3
ATOM	34983	CB	LYS	C	72	190.508	142.219	36.901	1.00	128.84	CS3
ATOM	34984	CG	LYS	C	72	189.274	141.998	36.049	1.00	128.84	CS3
ATOM	34985	CD	LYS	C	72	188.631	140.653	36.361	1.00	128.84	CS3
ATOM	34986	CE	LYS	C	72	188.206	140.549	37.821	1.00	128.84	CS3
ATOM	34987	NZ	LYS	C	72	187.546	139.244	38.114	1.00	128.84	CS3
ATOM	34988	C	LYS	C	72	192.266	143.764	37.761	1.00	128.20	CS3
ATOM	34989	O	LYS	C	72	192.578	142.843	38.524	1.00	128.20	CS3
ATOM	34990	N	PRO	C	73	192.800	144.995	37.870	1.00	108.63	CS3
ATOM	34991	CD	PRO	C	73	192.328	146.189	37.145	1.00	71.86	CS3
ATOM	34992	CA	PRO	C	73	193.815	145.364	38.865	1.00	108.63	CS3
ATOM	34993	CB	PRO	C	73	194.016	146.863	38.620	1.00	71.86	CS3
ATOM	34994	CG	PRO	C	73	192.696	147.301	38.091	1.00	71.86	CS3
ATOM	34995	C	PRO	C	73	193.467	145.046	40.313	1.00	108.63	CS3
ATOM	34996	O	PRO	C	73	194.342	145.043	41.183	1.00	108.63	CS3
ATOM	34997	N	GLY	C	74	192.195	144.775	40.572	1.00	94.54	CS3
ATOM	34998	CA	GLY	C	74	191.801	144.460	41.927	1.00	94.54	CS3
ATOM	34999	C	GLY	C	74	192.595	143.272	42.430	1.00	94.54	CS3
ATOM	35000	O	GLY	C	74	193.287	143.341	43.450	1.00	94.54	CS3
ATOM	35001	N	VAL	C	75	192.509	142.177	41.688	1.00	80.38	CS3
ATOM	35002	CA	VAL	C	75	193.202	140.952	42.056	1.00	80.38	CS3
ATOM	35003	CB	VAL	C	75	193.009	139.877	40.957	1.00	139.21	CS3
ATOM	35004	CG1	VAL	C	75	192.888	138.494	41.596	1.00	139.21	CS3
ATOM	35005	CG2	VAL	C	75	191.770	140.201	40.117	1.00	139.21	CS3
ATOM	35006	C	VAL	C	75	194.701	141.197	42.297	1.00	80.38	CS3
ATOM	35007	O	VAL	C	75	195.332	140.514	43.112	1.00	80.38	CS3
ATOM	35008	N	VAL	C	76	195.263	142.172	41.588	1.00	197.20	CS3
ATOM	35009	CA	VAL	C	76	196.679	142.498	41.734	1.00	197.20	CS3
ATOM	35010	CB	VAL	C	76	197.135	143.564	40.701	1.00	135.73	CS3
ATOM	35011	CG1	VAL	C	76	198.587	143.937	40.940	1.00	135.73	CS3
ATOM	35012	CG2	VAL	C	76	196.971	143.030	39.292	1.00	135.73	CS3
ATOM	35013	C	VAL	C	76	196.929	143.047	43.129	1.00	197.20	CS3
ATOM	35014	O	VAL	C	76	197.553	142.393	43.967	1.00	197.20	CS3
ATOM	35015	N	ILE	C	77	196.428	144.255	43.364	1.00	155.75	CS3
ATOM	35016	CA	ILE	C	77	196.580	144.929	44.646	1.00	155.75	CS3
ATOM	35017	CB	ILE	C	77	195.654	146.150	44.737	1.00	95.98	CS3
ATOM	35018	CG2	ILE	C	77	195.812	146.812	46.095	1.00	95.98	CS3
ATOM	35019	CG1	ILE	C	77	195.973	147.129	43.606	1.00	95.98	CS3
ATOM	35020	CD1	ILE	C	77	197.424	147.579	43.585	1.00	95.98	CS3
ATOM	35021	C	ILE	C	77	196.268	144.018	45.823	1.00	155.75	CS3
ATOM	35022	O	ILE	C	77	197.165	143.618	46.567	1.00	155.75	CS3
ATOM	35023	N	GLY	C	78	194.987	143.698	45.980	1.00	172.37	CS3
ATOM	35024	CA	GLY	C	78	194.550	142.849	47.073	1.00	172.37	CS3
ATOM	35025	C	GLY	C	78	193.644	143.638	47.999	1.00	172.37	CS3

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ATOM	35026	O	GLY	C	78	193.288	144.779	47.696	1.00172.37	CS3
ATOM	35027	N	ARG	C	79	193.268	143.041	49.127	1.00153.08	CS3
ATOM	35028	CA	ARG	C	79	192.400	143.711	50.089	1.00153.08	CS3
ATOM	35029	CB	ARG	C	79	191.989	142.733	51.193	1.00183.25	CS3
ATOM	35030	CG	ARG	C	79	193.155	142.125	51.941	1.00183.25	CS3
ATOM	35031	CD	ARG	C	79	192.694	141.058	52.910	1.00183.25	CS3
ATOM	35032	NE	ARG	C	79	193.793	140.578	53.743	1.00183.25	CS3
ATOM	35033	CZ	ARG	C	79	193.673	139.638	54.676	1.00183.25	CS3
ATOM	35034	NH1	ARG	C	79	192.497	139.066	54.901	1.00183.25	CS3
ATOM	35035	NH2	ARG	C	79	194.728	139.275	55.391	1.00183.25	CS3
ATOM	35036	C	ARG	C	79	193.103	144.929	50.689	1.00153.08	CS3
ATOM	35037	O	ARG	C	79	193.910	144.805	51.613	1.00153.08	CS3
ATOM	35038	N	GLY	C	80	192.790	146.103	50.145	1.00114.29	CS3
ATOM	35039	CA	GLY	C	80	193.394	147.337	50.619	1.00114.29	CS3
ATOM	35040	C	GLY	C	80	194.761	147.576	50.005	1.00114.29	CS3
ATOM	35041	O	GLY	C	80	195.128	148.713	49.694	1.00114.29	CS3
ATOM	35042	N	GLY	C	81	195.509	146.490	49.830	1.00141.01	CS3
ATOM	35043	CA	GLY	C	81	196.842	146.560	49.256	1.00141.01	CS3
ATOM	35044	C	GLY	C	81	197.737	145.522	49.906	1.00141.01	CS3
ATOM	35045	O	GLY	C	81	198.961	145.647	49.895	1.00141.01	CS3
ATOM	35046	N	GLU	C	82	197.115	144.484	50.462	1.00166.60	CS3
ATOM	35047	CA	GLU	C	82	197.831	143.417	51.157	1.00166.60	CS3
ATOM	35048	CB	GLU	C	82	196.847	142.608	52.016	1.00153.67	CS3
ATOM	35049	CG	GLU	C	82	196.260	141.367	51.339	1.00153.67	CS3
ATOM	35050	CD	GLU	C	82	197.132	140.130	51.511	1.00153.67	CS3
ATOM	35051	OE1	GLU	C	82	197.333	139.704	52.665	1.00153.67	CS3
ATOM	35052	OE2	GLU	C	82	197.616	139.581	50.497	1.00153.67	CS3
ATOM	35053	C	GLU	C	82	198.618	142.464	50.258	1.00166.60	CS3
ATOM	35054	O	GLU	C	82	199.629	141.904	50.685	1.00166.60	CS3
ATOM	35055	N	ARG	C	83	198.163	142.272	49.022	1.00144.84	CS3
ATOM	35056	CA	ARG	C	83	198.848	141.357	48.117	1.00144.84	CS3
ATOM	35057	CB	ARG	C	83	197.863	140.705	47.156	1.00120.87	CS3
ATOM	35058	CG	ARG	C	83	198.524	139.641	46.332	1.00120.87	CS3
ATOM	35059	CD	ARG	C	83	197.565	138.990	45.388	1.00120.87	CS3
ATOM	35060	NE	ARG	C	83	198.248	137.964	44.617	1.00120.87	CS3
ATOM	35061	CZ	ARG	C	83	197.635	137.113	43.805	1.00120.87	CS3
ATOM	35062	NH1	ARG	C	83	196.314	137.168	43.659	1.00120.87	CS3
ATOM	35063	NH2	ARG	C	83	198.344	136.204	43.147	1.00120.87	CS3
ATOM	35064	C	ARG	C	83	199.981	141.983	47.319	1.00144.84	CS3
ATOM	35065	O	ARG	C	83	201.039	141.374	47.175	1.00144.84	CS3
ATOM	35066	N	ILE	C	84	199.764	143.184	46.787	1.00119.41	CS3
ATOM	35067	CA	ILE	C	84	200.810	143.872	46.031	1.00119.41	CS3
ATOM	35068	CB	ILE	C	84	200.340	145.288	45.578	1.00132.25	CS3
ATOM	35069	CG2	ILE	C	84	199.823	146.070	46.773	1.00132.25	CS3
ATOM	35070	CG1	ILE	C	84	201.483	146.035	44.878	1.00132.25	CS3
ATOM	35071	CD1	ILE	C	84	201.134	147.452	44.456	1.00132.25	CS3
ATOM	35072	C	ILE	C	84	202.017	143.986	46.971	1.00119.41	CS3
ATOM	35073	O	ILE	C	84	203.116	144.379	46.573	1.00119.41	CS3
ATOM	35074	N	ARG	C	85	201.779	143.617	48.226	1.00132.14	CS3
ATOM	35075	CA	ARG	C	85	202.777	143.624	49.289	1.00132.14	CS3
ATOM	35076	CB	ARG	C	85	202.069	143.846	50.632	1.00198.16	CS3
ATOM	35077	CG	ARG	C	85	202.820	143.374	51.865	1.00198.16	CS3
ATOM	35078	CD	ARG	C	85	204.088	144.158	52.087	1.00198.16	CS3
ATOM	35079	NE	ARG	C	85	204.681	143.842	53.381	1.00198.16	CS3
ATOM	35080	CZ	ARG	C	85	205.803	144.385	53.842	1.00198.16	CS3
ATOM	35081	NH1	ARG	C	85	206.463	145.274	53.112	1.00198.16	CS3
ATOM	35082	NH2	ARG	C	85	206.262	144.043	55.038	1.00198.16	CS3
ATOM	35083	C	ARG	C	85	203.533	142.292	49.301	1.00132.14	CS3
ATOM	35084	O	ARG	C	85	204.739	142.255	49.546	1.00132.14	CS3
ATOM	35085	N	VAL	C	86	202.815	141.203	49.037	1.00147.85	CS3
ATOM	35086	CA	VAL	C	86	203.417	139.875	49.016	1.00147.85	CS3
ATOM	35087	CB	VAL	C	86	202.344	138.755	49.096	1.00121.67	CS3
ATOM	35088	CG1	VAL	C	86	202.985	137.453	49.569	1.00121.67	CS3
ATOM	35089	CG2	VAL	C	86	201.217	139.167	50.029	1.00121.67	CS3
ATOM	35090	C	VAL	C	86	204.216	139.697	47.726	1.00147.85	CS3
ATOM	35091	O	VAL	C	86	205.277	139.075	47.726	1.00147.85	CS3
ATOM	35092	N	LEU	C	87	203.698	140.246	46.628	1.00174.10	CS3
ATOM	35093	CA	LEU	C	87	204.369	140.159	45.329	1.00174.10	CS3
ATOM	35094	CB	LEU	C	87	203.466	140.675	44.200	1.00113.60	CS3
ATOM	35095	CG	LEU	C	87	202.075	140.081	43.984	1.00113.60	CS3
ATOM	35096	CD1	LEU	C	87	201.400	140.841	42.848	1.00113.60	CS3
ATOM	35097	CD2	LEU	C	87	202.166	138.588	43.680	1.00113.60	CS3
ATOM	35098	C	LEU	C	87	205.622	141.019	45.366	1.00174.10	CS3
ATOM	35099	O	LEU	C	87	206.740	140.516	45.271	1.00174.10	CS3
ATOM	35100	N	ARG	C	88	205.412	142.326	45.500	1.00110.70	CS3
ATOM	35101	CA	ARG	C	88	206.494	143.301	45.554	1.00110.70	CS3
ATOM	35102	CB	ARG	C	88	205.950	144.631	46.081	1.00154.02	CS3

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ATOM	35103	CG	ARG	C	88	206.525	145.863	45.409	1.00154.02	CS3
ATOM	35104	CD	ARG	C	88	205.569	147.042	45.551	1.00154.02	CS3
ATOM	35105	NE	ARG	C	88	205.985	148.194	44.753	1.00154.02	CS3
ATOM	35106	CZ	ARG	C	88	205.203	149.232	44.471	1.00154.02	CS3
ATOM	35107	NH1	ARG	C	88	203.955	149.266	44.923	1.00154.02	CS3
ATOM	35108	NH2	ARG	C	88	205.667	150.233	43.732	1.00154.02	CS3
ATOM	35109	C	ARG	C	88	207.611	142.785	46.460	1.00110.70	CS3
ATOM	35110	O	ARG	C	88	208.752	143.252	46.397	1.00110.70	CS3
ATOM	35111	N	GLU	C	89	207.262	141.812	47.296	1.00147.41	CS3
ATOM	35112	CA	GLU	C	89	208.199	141.199	48.223	1.00147.41	CS3
ATOM	35113	CB	GLU	C	89	207.529	141.017	49.584	1.00132.09	CS3
ATOM	35114	CG	GLU	C	89	208.403	140.368	50.635	1.00132.09	CS3
ATOM	35115	CD	GLU	C	89	207.739	140.352	51.996	1.00132.09	CS3
ATOM	35116	OE1	GLU	C	89	206.572	139.911	52.085	1.00132.09	CS3
ATOM	35117	OE2	GLU	C	89	208.386	140.777	52.978	1.00132.09	CS3
ATOM	35118	C	GLU	C	89	208.679	139.853	47.682	1.00147.41	CS3
ATOM	35119	O	GLU	C	89	209.874	139.566	47.699	1.00147.41	CS3
ATOM	35120	N	GLU	C	90	207.746	139.029	47.206	1.00133.75	CS3
ATOM	35121	CA	GLU	C	90	208.088	137.721	46.644	1.00133.75	CS3
ATOM	35122	CB	GLU	C	90	206.836	137.051	46.065	1.00154.16	CS3
ATOM	35123	CG	GLU	C	90	206.622	135.589	46.462	1.00154.16	CS3
ATOM	35124	CD	GLU	C	90	207.727	134.654	45.989	1.00154.16	CS3
ATOM	35125	OE1	GLU	C	90	207.513	133.423	46.027	1.00154.16	CS3
ATOM	35126	OE2	GLU	C	90	208.807	135.136	45.590	1.00154.16	CS3
ATOM	35127	C	GLU	C	90	209.087	137.996	45.523	1.00133.75	CS3
ATOM	35128	O	GLU	C	90	209.994	137.205	45.255	1.00133.75	CS3
ATOM	35129	N	LEU	C	91	208.896	139.148	44.888	1.00108.81	CS3
ATOM	35130	CA	LEU	C	91	209.727	139.622	43.791	1.00108.81	CS3
ATOM	35131	CB	LEU	C	91	209.086	140.881	43.197	1.00110.75	CS3
ATOM	35132	CG	LEU	C	91	209.929	142.085	42.767	1.00110.75	CS3
ATOM	35133	CD1	LEU	C	91	209.052	142.989	41.901	1.00110.75	CS3
ATOM	35134	CD2	LEU	C	91	210.483	142.844	43.992	1.00110.75	CS3
ATOM	35135	C	LEU	C	91	211.172	139.893	44.222	1.00108.81	CS3
ATOM	35136	O	LEU	C	91	212.095	139.839	43.406	1.00108.81	CS3
ATOM	35137	N	ALA	C	92	211.369	140.189	45.503	1.00143.56	CS3
ATOM	35138	CA	ALA	C	92	212.710	140.442	46.017	1.00143.56	CS3
ATOM	35139	CB	ALA	C	92	212.659	141.454	47.144	1.00 93.42	CS3
ATOM	35140	C	ALA	C	92	213.335	139.129	46.497	1.00143.56	CS3
ATOM	35141	O	ALA	C	92	214.556	138.983	46.499	1.00143.56	CS3
ATOM	35142	N	LYS	C	93	212.496	138.177	46.905	1.00156.85	CS3
ATOM	35143	CA	LYS	C	93	212.976	136.867	47.344	1.00156.85	CS3
ATOM	35144	CB	LYS	C	93	211.860	136.079	48.033	1.00148.58	CS3
ATOM	35145	CG	LYS	C	93	211.518	136.558	49.429	1.00148.58	CS3
ATOM	35146	CD	LYS	C	93	212.679	136.338	50.384	1.00148.58	CS3
ATOM	35147	CE	LYS	C	93	212.316	136.784	51.789	1.00148.58	CS3
ATOM	35148	NZ	LYS	C	93	213.414	136.530	52.758	1.00148.58	CS3
ATOM	35149	C	LYS	C	93	213.401	136.136	46.080	1.00156.85	CS3
ATOM	35150	O	LYS	C	93	213.680	134.935	46.088	1.00156.85	CS3
ATOM	35151	N	LEU	C	94	213.432	136.895	44.991	1.00122.35	CS3
ATOM	35152	CA	LEU	C	94	213.803	136.404	43.676	1.00122.35	CS3
ATOM	35153	CB	LEU	C	94	212.634	136.647	42.715	1.00132.14	CS3
ATOM	35154	CG	LEU	C	94	212.690	136.254	41.239	1.00132.14	CS3
ATOM	35155	CD1	LEU	C	94	211.272	135.995	40.736	1.00132.14	CS3
ATOM	35156	CD2	LEU	C	94	213.363	137.357	40.429	1.00132.14	CS3
ATOM	35157	C	LEU	C	94	215.049	137.177	43.256	1.00122.35	CS3
ATOM	35158	O	LEU	C	94	215.986	136.612	42.702	1.00122.35	CS3
ATOM	35159	N	THR	C	95	215.054	138.473	43.542	1.00171.40	CS3
ATOM	35160	CA	THR	C	95	216.189	139.331	43.231	1.00171.40	CS3
ATOM	35161	CB	THR	C	95	216.100	139.912	41.822	1.00130.37	CS3
ATOM	35162	OG1	THR	C	95	214.847	140.589	41.662	1.00130.37	CS3
ATOM	35163	CG2	THR	C	95	216.233	138.812	40.796	1.00130.37	CS3
ATOM	35164	C	THR	C	95	216.237	140.485	44.215	1.00171.40	CS3
ATOM	35165	O	THR	C	95	215.419	141.407	44.151	1.00171.40	CS3
ATOM	35166	N	GLY	C	96	217.197	140.421	45.130	1.00154.61	CS3
ATOM	35167	CA	GLY	C	96	217.342	141.465	46.123	1.00154.61	CS3
ATOM	35168	C	GLY	C	96	217.622	142.805	45.478	1.00154.61	CS3
ATOM	35169	O	GLY	C	96	218.089	143.728	46.135	1.00154.61	CS3
ATOM	35170	N	LYS	C	97	217.340	142.914	44.185	1.00152.59	CS3
ATOM	35171	CA	LYS	C	97	217.561	144.153	43.454	1.00152.59	CS3
ATOM	35172	CB	LYS	C	97	217.165	143.962	41.987	1.00117.41	CS3
ATOM	35173	CG	LYS	C	97	218.036	142.981	41.208	1.00117.41	CS3
ATOM	35174	CD	LYS	C	97	219.335	143.618	40.739	1.00117.41	CS3
ATOM	35175	CE	LYS	C	97	220.054	142.711	39.758	1.00117.41	CS3
ATOM	35176	NZ	LYS	C	97	221.299	143.331	39.251	1.00117.41	CS3
ATOM	35177	C	LYS	C	97	216.766	145.320	44.054	1.00152.59	CS3
ATOM	35178	O	LYS	C	97	217.050	146.484	43.762	1.00152.59	CS3
ATOM	35179	N	ASN	C	98	215.782	145.006	44.896	1.00146.62	CS3

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ATOM	35180	CA	ASN	C	98	214.940	146.029	45.519	1.00146.62	CS3
ATOM	35181	CB	ASN	C	98	215.797	147.035	46.292	1.00161.90	CS3
ATOM	35182	CG	ASN	C	98	214.963	148.056	47.038	1.00161.90	CS3
ATOM	35183	OD1	ASN	C	98	214.192	148.805	46.437	1.00161.90	CS3
ATOM	35184	ND2	ASN	C	98	215.113	148.089	48.358	1.00161.90	CS3
ATOM	35185	C	ASN	C	98	214.188	146.736	44.400	1.00146.62	CS3
ATOM	35186	O	ASN	C	98	214.513	147.865	44.032	1.00146.62	CS3
ATOM	35187	N	VAL	C	99	213.171	146.065	43.874	1.00136.63	CS3
ATOM	35188	CA	VAL	C	99	212.406	146.598	42.758	1.00136.63	CS3
ATOM	35189	CB	VAL	C	99	212.491	145.610	41.561	1.00191.21	CS3
ATOM	35190	CG1	VAL	C	99	212.622	144.185	42.078	1.00191.21	CS3
ATOM	35191	CG2	VAL	C	99	211.266	145.736	40.666	1.00191.21	CS3
ATOM	35192	C	VAL	C	99	210.949	146.973	43.018	1.00136.63	CS3
ATOM	35193	O	VAL	C	99	210.283	146.405	43.888	1.00136.63	CS3
ATOM	35194	N	ALA	C	100	210.480	147.940	42.230	1.00168.87	CS3
ATOM	35195	CA	ALA	C	100	209.120	148.470	42.284	1.00168.87	CS3
ATOM	35196	CB	ALA	C	100	209.111	149.866	41.670	1.00 41.79	CS3
ATOM	35197	C	ALA	C	100	208.134	147.558	41.539	1.00168.87	CS3
ATOM	35198	O	ALA	C	100	208.550	146.629	40.851	1.00168.87	CS3
ATOM	35199	N	LEU	C	101	206.834	147.822	41.672	1.00 92.39	CS3
ATOM	35200	CA	LEU	C	101	205.815	147.011	41.001	1.00 92.39	CS3
ATOM	35201	CB	LEU	C	101	205.505	145.751	41.830	1.00101.92	CS3
ATOM	35202	CG	LEU	C	101	204.835	144.527	41.175	1.00101.92	CS3
ATOM	35203	CD1	LEU	C	101	204.679	143.426	42.214	1.00101.92	CS3
ATOM	35204	CD2	LEU	C	101	203.477	144.882	40.601	1.00101.92	CS3
ATOM	35205	C	LEU	C	101	204.532	147.813	40.784	1.00 92.39	CS3
ATOM	35206	O	LEU	C	101	203.540	147.607	41.481	1.00 92.39	CS3
ATOM	35207	N	ASN	C	102	204.553	148.718	39.809	1.00113.13	CS3
ATOM	35208	CA	ASN	C	102	203.394	149.558	39.498	1.00113.13	CS3
ATOM	35209	CB	ASN	C	102	203.818	150.699	38.574	1.00151.05	CS3
ATOM	35210	CG	ASN	C	102	205.289	151.023	38.697	1.00151.05	CS3
ATOM	35211	OD1	ASN	C	102	205.774	151.380	39.771	1.00151.05	CS3
ATOM	35212	ND2	ASN	C	102	206.013	150.890	37.594	1.00151.05	CS3
ATOM	35213	C	ASN	C	102	202.281	148.754	38.824	1.00113.13	CS3
ATOM	35214	O	ASN	C	102	202.446	147.562	38.562	1.00113.13	CS3
ATOM	35215	N	VAL	C	103	201.150	149.407	38.548	1.00114.75	CS3
ATOM	35216	CA	VAL	C	103	200.010	148.755	37.891	1.00114.75	CS3
ATOM	35217	CB	VAL	C	103	199.056	148.042	38.917	1.00 72.31	CS3
ATOM	35218	CG1	VAL	C	103	197.822	147.493	38.196	1.00 72.31	CS3
ATOM	35219	CG2	VAL	C	103	199.782	146.892	39.621	1.00 72.31	CS3
ATOM	35220	C	VAL	C	103	199.164	149.728	37.063	1.00114.75	CS3
ATOM	35221	O	VAL	C	103	198.738	150.775	37.549	1.00114.75	CS3
ATOM	35222	N	GLN	C	104	198.937	149.373	35.803	1.00108.99	CS3
ATOM	35223	CA	GLN	C	104	198.113	150.174	34.914	1.00108.99	CS3
ATOM	35224	CB	GLN	C	104	198.894	150.576	33.678	1.00113.22	CS3
ATOM	35225	CG	GLN	C	104	200.047	151.474	34.016	1.00113.22	CS3
ATOM	35226	CD	GLN	C	104	200.328	152.490	32.931	1.00113.22	CS3
ATOM	35227	OE1	GLN	C	104	200.775	152.144	31.832	1.00113.22	CS3
ATOM	35228	NE2	GLN	C	104	200.061	153.761	33.233	1.00113.22	CS3
ATOM	35229	C	GLN	C	104	196.935	149.299	34.537	1.00108.99	CS3
ATOM	35230	O	GLN	C	104	197.052	148.071	34.518	1.00108.99	CS3
ATOM	35231	N	GLU	C	105	195.792	149.915	34.258	1.00138.87	CS3
ATOM	35232	CA	GLU	C	105	194.613	149.136	33.917	1.00138.87	CS3
ATOM	35233	CB	GLU	C	105	193.349	149.720	34.561	1.00185.62	CS3
ATOM	35234	CG	GLU	C	105	192.109	148.841	34.355	1.00185.62	CS3
ATOM	35235	CD	GLU	C	105	190.806	149.530	34.736	1.00185.62	CS3
ATOM	35236	OE1	GLU	C	105	190.449	150.536	34.085	1.00185.62	CS3
ATOM	35237	OE2	GLU	C	105	190.137	149.062	35.682	1.00185.62	CS3
ATOM	35238	C	GLU	C	105	194.382	149.013	32.428	1.00138.87	CS3
ATOM	35239	O	GLU	C	105	194.404	150.001	31.692	1.00138.87	CS3
ATOM	35240	N	VAL	C	106	194.161	147.778	31.999	1.00110.60	CS3
ATOM	35241	CA	VAL	C	106	193.884	147.485	30.612	1.00110.60	CS3
ATOM	35242	CB	VAL	C	106	193.934	145.965	30.366	1.00114.99	CS3
ATOM	35243	CG1	VAL	C	106	193.588	145.659	28.929	1.00114.99	CS3
ATOM	35244	CG2	VAL	C	106	195.320	145.433	30.693	1.00114.99	CS3
ATOM	35245	C	VAL	C	106	192.470	148.011	30.390	1.00110.60	CS3
ATOM	35246	O	VAL	C	106	191.492	147.374	30.791	1.00110.60	CS3
ATOM	35247	N	GLN	C	107	192.374	149.192	29.786	1.00133.59	CS3
ATOM	35248	CA	GLN	C	107	191.087	149.821	29.516	1.00133.59	CS3
ATOM	35249	CB	GLN	C	107	191.253	151.334	29.354	1.00177.21	CS3
ATOM	35250	CG	GLN	C	107	192.680	151.820	29.511	1.00177.21	CS3
ATOM	35251	CD	GLN	C	107	193.611	151.205	28.487	1.00177.21	CS3
ATOM	35252	OE1	GLN	C	107	193.424	151.372	27.280	1.00177.21	CS3
ATOM	35253	NE2	GLN	C	107	194.619	150.482	28.963	1.00177.21	CS3
ATOM	35254	C	GLN	C	107	190.436	149.227	28.268	1.00133.59	CS3
ATOM	35255	O	GLN	C	107	190.534	149.774	27.161	1.00133.59	CS3
ATOM	35256	N	ASN	C	108	189.778	148.091	28.486	1.00100.96	CS3

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ATOM	35257	CA	ASN	C	108	189.064	147.326	27.468	1.00100.96	CS3
ATOM	35258	CB	ASN	C	108	188.727	148.185	26.250	1.00122.63	CS3
ATOM	35259	CG	ASN	C	108	187.892	147.437	25.239	1.00122.63	CS3
ATOM	35260	OD1	ASN	C	108	186.831	146.894	25.563	1.00122.63	CS3
ATOM	35261	ND2	ASN	C	108	188.365	147.397	24.005	1.00122.63	CS3
ATOM	35262	C	ASN	C	108	189.842	146.095	27.028	1.00100.96	CS3
ATOM	35263	O	ASN	C	108	190.552	146.125	26.027	1.00100.96	CS3
ATOM	35264	N	PRO	C	109	189.706	144.987	27.775	1.00127.21	CS3
ATOM	35265	CD	PRO	C	109	188.744	144.775	28.871	1.00 87.91	CS3
ATOM	35266	CA	PRO	C	109	190.400	143.740	27.453	1.00127.21	CS3
ATOM	35267	CB	PRO	C	109	189.990	142.820	28.600	1.00 87.91	CS3
ATOM	35268	CG	PRO	C	109	188.598	143.269	28.891	1.00 87.91	CS3
ATOM	35269	C	PRO	C	109	189.926	143.238	26.093	1.00127.21	CS3
ATOM	35270	O	PRO	C	109	190.301	142.154	25.640	1.00127.21	CS3
ATOM	35271	N	ASN	C	110	189.090	144.051	25.456	1.00 95.54	CS3
ATOM	35272	CA	ASN	C	110	188.538	143.747	24.146	1.00 95.54	CS3
ATOM	35273	CB	ASN	C	110	187.109	144.275	24.052	1.00120.76	CS3
ATOM	35274	CG	ASN	C	110	186.085	143.174	24.128	1.00120.76	CS3
ATOM	35275	OD1	ASN	C	110	186.338	142.116	24.713	1.00120.76	CS3
ATOM	35276	ND2	ASN	C	110	184.913	143.413	23.544	1.00120.76	CS3
ATOM	35277	C	ASN	C	110	189.395	144.354	23.045	1.00 95.54	CS3
ATOM	35278	O	ASN	C	110	189.002	144.378	21.883	1.00 95.54	CS3
ATOM	35279	N	LEU	C	111	190.559	144.863	23.424	1.00100.94	CS3
ATOM	35280	CA	LEU	C	111	191.487	145.437	22.464	1.00100.94	CS3
ATOM	35281	CB	LEU	C	111	191.376	146.966	22.417	1.00 68.77	CS3
ATOM	35282	CG	LEU	C	111	190.115	147.583	21.793	1.00 68.77	CS3
ATOM	35283	CD1	LEU	C	111	190.352	149.060	21.531	1.00 68.77	CS3
ATOM	35284	CD2	LEU	C	111	189.764	146.901	20.482	1.00 68.77	CS3
ATOM	35285	C	LEU	C	111	192.896	145.027	22.855	1.00100.94	CS3
ATOM	35286	O	LEU	C	111	193.873	145.676	22.473	1.00100.94	CS3
ATOM	35287	N	SER	C	112	192.980	143.945	23.629	1.00 88.93	CS3
ATOM	35288	CA	SER	C	112	194.254	143.402	24.087	1.00 88.93	CS3
ATOM	35289	CB	SER	C	112	194.365	143.445	25.605	1.00159.12	CS3
ATOM	35290	OG	SER	C	112	194.535	144.768	26.065	1.00159.12	CS3
ATOM	35291	C	SER	C	112	194.357	141.969	23.639	1.00 88.93	CS3
ATOM	35292	O	SER	C	112	193.864	141.065	24.316	1.00 88.93	CS3
ATOM	35293	N	ALA	C	113	195.006	141.771	22.496	1.00 79.53	CS3
ATOM	35294	CA	ALA	C	113	195.179	140.446	21.924	1.00 79.53	CS3
ATOM	35295	CB	ALA	C	113	196.318	140.466	20.901	1.00103.83	CS3
ATOM	35296	C	ALA	C	113	195.424	139.356	22.977	1.00 79.53	CS3
ATOM	35297	O	ALA	C	113	194.654	138.399	23.070	1.00 79.53	CS3
ATOM	35298	N	PRO	C	114	196.481	139.504	23.798	1.00 65.19	CS3
ATOM	35299	CD	PRO	C	114	197.357	140.687	23.892	1.00 93.91	CS3
ATOM	35300	CA	PRO	C	114	196.821	138.522	24.839	1.00 65.19	CS3
ATOM	35301	CB	PRO	C	114	197.913	139.230	25.640	1.00 93.91	CS3
ATOM	35302	CG	PRO	C	114	198.552	140.132	24.620	1.00 93.91	CS3
ATOM	35303	C	PRO	C	114	195.628	138.134	25.708	1.00 65.19	CS3
ATOM	35304	O	PRO	C	114	195.497	136.991	26.170	1.00 65.19	CS3
ATOM	35305	N	LEU	C	115	194.757	139.104	25.937	1.00 95.47	CS3
ATOM	35306	CA	LEU	C	115	193.580	138.865	26.741	1.00 95.47	CS3
ATOM	35307	CB	LEU	C	115	192.994	140.210	27.172	1.00 95.74	CS3
ATOM	35308	CG	LEU	C	115	194.019	141.002	27.998	1.00 95.74	CS3
ATOM	35309	CD1	LEU	C	115	193.485	142.363	28.365	1.00 95.74	CS3
ATOM	35310	CD2	LEU	C	115	194.344	140.222	29.260	1.00 95.74	CS3
ATOM	35311	C	LEU	C	115	192.602	138.051	25.903	1.00 95.47	CS3
ATOM	35312	O	LEU	C	115	192.251	136.921	26.264	1.00 95.47	CS3
ATOM	35313	N	VAL	C	116	192.198	138.614	24.766	1.00 66.85	CS3
ATOM	35314	CA	VAL	C	116	191.271	137.934	23.865	1.00 66.85	CS3
ATOM	35315	CB	VAL	C	116	191.151	138.686	22.515	1.00 49.42	CS3
ATOM	35316	CG1	VAL	C	116	189.876	138.258	21.805	1.00 49.42	CS3
ATOM	35317	CG2	VAL	C	116	191.144	140.185	22.746	1.00 49.42	CS3
ATOM	35318	C	VAL	C	116	191.697	136.477	23.595	1.00 66.85	CS3
ATOM	35319	O	VAL	C	116	190.859	135.579	23.515	1.00 66.85	CS3
ATOM	35320	N	ALA	C	117	193.002	136.254	23.458	1.00 82.15	CS3
ATOM	35321	CA	ALA	C	117	193.531	134.918	23.215	1.00 82.15	CS3
ATOM	35322	CB	ALA	C	117	195.043	134.959	23.055	1.00 44.66	CS3
ATOM	35323	C	ALA	C	117	193.170	134.038	24.387	1.00 82.15	CS3
ATOM	35324	O	ALA	C	117	192.482	133.029	24.215	1.00 82.15	CS3
ATOM	35325	N	GLN	C	118	193.645	134.426	25.575	1.00 84.85	CS3
ATOM	35326	CA	GLN	C	118	193.386	133.689	26.816	1.00 84.85	CS3
ATOM	35327	CB	GLN	C	118	193.923	134.467	28.011	1.00112.79	CS3
ATOM	35328	CG	GLN	C	118	195.419	134.671	27.998	1.00112.79	CS3
ATOM	35329	CD	GLN	C	118	195.876	135.581	29.116	1.00112.79	CS3
ATOM	35330	OE1	GLN	C	118	195.540	136.763	29.138	1.00112.79	CS3
ATOM	35331	NE2	GLN	C	118	196.638	135.034	30.058	1.00112.79	CS3
ATOM	35332	C	GLN	C	118	191.884	133.483	26.982	1.00 84.85	CS3
ATOM	35333	O	GLN	C	118	191.425	132.405	27.385	1.00 84.85	CS3

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ATOM	35334	N	ARG	C	119	191.130	134.536	26.669	1.00113.75	CS3
ATOM	35335	CA	ARG	C	119	189.675	134.515	26.739	1.00113.75	CS3
ATOM	35336	CB	ARG	C	119	189.121	135.799	26.106	1.00139.35	CS3
ATOM	35337	CG	ARG	C	119	187.613	135.837	25.907	1.00139.35	CS3
ATOM	35338	CD	ARG	C	119	186.859	135.572	27.206	1.00139.35	CS3
ATOM	35339	NE	ARG	C	119	185.410	135.657	27.027	1.00139.35	CS3
ATOM	35340	CZ	ARG	C	119	184.514	135.175	27.885	1.00139.35	CS3
ATOM	35341	NH1	ARG	C	119	184.905	134.564	28.997	1.00139.35	CS3
ATOM	35342	NH2	ARG	C	119	183.220	135.301	27.627	1.00139.35	CS3
ATOM	35343	C	ARG	C	119	189.168	133.285	25.981	1.00113.75	CS3
ATOM	35344	O	ARG	C	119	188.458	132.438	26.537	1.00113.75	CS3
ATOM	35345	N	VAL	C	120	189.563	133.196	24.713	1.00 93.25	CS3
ATOM	35346	CA	VAL	C	120	189.177	132.100	23.834	1.00 93.25	CS3
ATOM	35347	CB	VAL	C	120	189.575	132.396	22.391	1.00 90.23	CS3
ATOM	35348	CG1	VAL	C	120	189.149	131.245	21.499	1.00 90.23	CS3
ATOM	35349	CG2	VAL	C	120	188.932	133.694	21.933	1.00 90.23	CS3
ATOM	35350	C	VAL	C	120	189.813	130.782	24.231	1.00 93.25	CS3
ATOM	35351	O	VAL	C	120	189.174	129.734	24.172	1.00 93.25	CS3
ATOM	35352	N	ALA	C	121	191.080	130.836	24.619	1.00 83.53	CS3
ATOM	35353	CA	ALA	C	121	191.791	129.634	25.029	1.00 83.53	CS3
ATOM	35354	CB	ALA	C	121	193.187	129.987	25.488	1.00 54.82	CS3
ATOM	35355	C	ALA	C	121	191.034	128.955	26.156	1.00 83.53	CS3
ATOM	35356	O	ALA	C	121	190.776	127.750	26.108	1.00 83.53	CS3
ATOM	35357	N	GLU	C	122	190.682	129.746	27.168	1.00119.28	CS3
ATOM	35358	CA	GLU	C	122	189.953	129.253	28.330	1.00119.28	CS3
ATOM	35359	CB	GLU	C	122	189.693	130.395	29.308	1.00198.66	CS3
ATOM	35360	CG	GLU	C	122	190.938	130.895	30.001	1.00198.66	CS3
ATOM	35361	CD	GLU	C	122	190.670	132.112	30.854	1.00198.66	CS3
ATOM	35362	OE1	GLU	C	122	189.738	132.060	31.685	1.00198.66	CS3
ATOM	35363	OE2	GLU	C	122	191.392	133.118	30.692	1.00198.66	CS3
ATOM	35364	C	GLU	C	122	188.633	128.613	27.934	1.00119.28	CS3
ATOM	35365	O	GLU	C	122	188.357	127.468	28.301	1.00119.28	CS3
ATOM	35366	N	GLN	C	123	187.817	129.353	27.189	1.00109.35	CS3
ATOM	35367	CA	GLN	C	123	186.532	128.828	26.751	1.00109.35	CS3
ATOM	35368	CB	GLN	C	123	185.891	129.734	25.700	1.00 96.09	CS3
ATOM	35369	CG	GLN	C	123	185.449	131.090	26.199	1.00 96.09	CS3
ATOM	35370	CD	GLN	C	123	184.479	131.750	25.238	1.00 96.09	CS3
ATOM	35371	OE1	GLN	C	123	183.332	131.318	25.101	1.00 96.09	CS3
ATOM	35372	NE2	GLN	C	123	184.939	132.790	24.552	1.00 96.09	CS3
ATOM	35373	C	GLN	C	123	186.728	127.445	26.157	1.00109.35	CS3
ATOM	35374	O	GLN	C	123	185.990	126.513	26.481	1.00109.35	CS3
ATOM	35375	N	ILE	C	124	187.734	127.315	25.295	1.00107.26	CS3
ATOM	35376	CA	ILE	C	124	188.026	126.042	24.643	1.00107.26	CS3
ATOM	35377	CB	ILE	C	124	189.206	126.170	23.656	1.00 90.67	CS3
ATOM	35378	CG2	ILE	C	124	189.373	124.871	22.880	1.00 90.67	CS3
ATOM	35379	CG1	ILE	C	124	188.942	127.313	22.672	1.00 90.67	CS3
ATOM	35380	CD1	ILE	C	124	190.004	127.468	21.593	1.00 90.67	CS3
ATOM	35381	C	ILE	C	124	188.358	124.954	25.660	1.00107.26	CS3
ATOM	35382	O	ILE	C	124	188.091	123.769	25.433	1.00107.26	CS3
ATOM	35383	N	GLU	C	125	188.934	125.357	26.785	1.00109.86	CS3
ATOM	35384	CA	GLU	C	125	189.292	124.399	27.813	1.00109.86	CS3
ATOM	35385	CB	GLU	C	125	190.346	124.992	28.738	1.00122.75	CS3
ATOM	35386	CG	GLU	C	125	191.590	125.416	27.995	1.00122.75	CS3
ATOM	35387	CD	GLU	C	125	192.760	125.649	28.913	1.00122.75	CS3
ATOM	35388	OE1	GLU	C	125	192.632	126.487	29.831	1.00122.75	CS3
ATOM	35389	OE2	GLU	C	125	193.807	124.994	28.718	1.00122.75	CS3
ATOM	35390	C	GLU	C	125	188.071	123.976	28.603	1.00109.86	CS3
ATOM	35391	O	GLU	C	125	188.058	122.907	29.214	1.00109.86	CS3
ATOM	35392	N	ARG	C	126	187.039	124.810	28.584	1.00 86.01	CS3
ATOM	35393	CA	ARG	C	126	185.818	124.491	29.304	1.00 86.01	CS3
ATOM	35394	CB	ARG	C	126	185.102	125.769	29.725	1.00120.48	CS3
ATOM	35395	CG	ARG	C	126	185.877	126.605	30.720	1.00120.48	CS3
ATOM	35396	CD	ARG	C	126	185.036	127.772	31.191	1.00120.48	CS3
ATOM	35397	NE	ARG	C	126	185.823	128.747	31.935	1.00120.48	CS3
ATOM	35398	CZ	ARG	C	126	185.337	129.894	32.400	1.00120.48	CS3
ATOM	35399	NH1	ARG	C	126	184.060	130.204	32.196	1.00120.48	CS3
ATOM	35400	NH2	ARG	C	126	186.129	130.731	33.064	1.00120.48	CS3
ATOM	35401	C	ARG	C	126	184.898	123.631	28.450	1.00 86.01	CS3
ATOM	35402	O	ARG	C	126	183.859	123.169	28.914	1.00 86.01	CS3
ATOM	35403	N	ARG	C	127	185.303	123.418	27.202	1.00 91.84	CS3
ATOM	35404	CA	ARG	C	127	184.562	122.607	26.234	1.00 91.84	CS3
ATOM	35405	CB	ARG	C	127	183.972	121.370	26.918	1.00115.72	CS3
ATOM	35406	CG	ARG	C	127	185.004	120.657	27.760	1.00115.72	CS3
ATOM	35407	CD	ARG	C	127	184.514	119.360	28.341	1.00115.72	CS3
ATOM	35408	NE	ARG	C	127	185.319	119.002	29.506	1.00115.72	CS3
ATOM	35409	CZ	ARG	C	127	185.352	117.790	30.054	1.00115.72	CS3
ATOM	35410	NH1	ARG	C	127	184.623	116.810	29.535	1.00115.72	CS3

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ATOM	35411	NH2	ARG	C	127	186.112	117.558	31.123	1.00115.72	CS3
ATOM	35412	C	ARG	C	127	183.481	123.372	25.468	1.00 91.84	CS3
ATOM	35413	O	ARG	C	127	182.466	122.803	25.061	1.00 91.84	CS3
ATOM	35414	N	PHE	C	128	183.715	124.668	25.277	1.00 95.18	CS3
ATOM	35415	CA	PHE	C	128	182.805	125.516	24.520	1.00 95.18	CS3
ATOM	35416	CB	PHE	C	128	183.058	126.992	24.836	1.00148.67	CS3
ATOM	35417	CG	PHE	C	128	182.484	127.442	26.145	1.00148.67	CS3
ATOM	35418	CD1	PHE	C	128	182.744	126.739	27.317	1.00148.67	CS3
ATOM	35419	CD2	PHE	C	128	181.694	128.586	26.209	1.00148.67	CS3
ATOM	35420	CE1	PHE	C	128	182.223	127.172	28.540	1.00148.67	CS3
ATOM	35421	CE2	PHE	C	128	181.169	129.026	27.425	1.00148.67	CS3
ATOM	35422	CZ	PHE	C	128	181.434	128.318	28.593	1.00148.67	CS3
ATOM	35423	C	PHE	C	128	183.085	125.271	23.036	1.00 95.18	CS3
ATOM	35424	O	PHE	C	128	184.231	125.036	22.649	1.00 95.18	CS3
ATOM	35425	N	ALA	C	129	182.043	125.317	22.210	1.00 81.64	CS3
ATOM	35426	CA	ALA	C	129	182.203	125.109	20.774	1.00 81.64	CS3
ATOM	35427	CB	ALA	C	129	180.870	125.301	20.060	1.00173.13	CS3
ATOM	35428	C	ALA	C	129	183.218	126.127	20.285	1.00 81.64	CS3
ATOM	35429	O	ALA	C	129	183.008	127.345	20.379	1.00 81.64	CS3
ATOM	35430	N	VAL	C	130	184.324	125.625	19.760	1.00 64.44	CS3
ATOM	35431	CA	VAL	C	130	185.381	126.504	19.298	1.00 64.44	CS3
ATOM	35432	CB	VAL	C	130	186.561	125.693	18.718	1.00 76.61	CS3
ATOM	35433	CG1	VAL	C	130	187.775	126.601	18.537	1.00 76.61	CS3
ATOM	35434	CG2	VAL	C	130	186.900	124.520	19.648	1.00 76.61	CS3
ATOM	35435	C	VAL	C	130	184.910	127.529	18.267	1.00 64.44	CS3
ATOM	35436	O	VAL	C	130	185.029	128.738	18.489	1.00 64.44	CS3
ATOM	35437	N	ARG	C	131	184.350	127.055	17.158	1.00 89.11	CS3
ATOM	35438	CA	ARG	C	131	183.911	127.965	16.110	1.00 89.11	CS3
ATOM	35439	CB	ARG	C	131	183.157	127.205	15.017	1.00146.80	CS3
ATOM	35440	CG	ARG	C	131	183.222	127.911	13.669	1.00146.80	CS3
ATOM	35441	CD	ARG	C	131	182.752	127.024	12.537	1.00146.80	CS3
ATOM	35442	NE	ARG	C	131	183.559	125.812	12.415	1.00146.80	CS3
ATOM	35443	CZ	ARG	C	131	183.386	124.887	11.473	1.00146.80	CS3
ATOM	35444	NH1	ARG	C	131	182.430	125.031	10.559	1.00146.80	CS3
ATOM	35445	NH2	ARG	C	131	184.168	123.814	11.445	1.00146.80	CS3
ATOM	35446	C	ARG	C	131	183.070	129.133	16.625	1.00 89.11	CS3
ATOM	35447	O	ARG	C	131	183.267	130.275	16.200	1.00 89.11	CS3
ATOM	35448	N	ARG	C	132	182.144	128.857	17.542	1.00123.85	CS3
ATOM	35449	CA	ARG	C	132	181.299	129.913	18.107	1.00123.85	CS3
ATOM	35450	CB	ARG	C	132	180.230	129.323	19.037	1.00169.18	CS3
ATOM	35451	CG	ARG	C	132	179.251	128.368	18.372	1.00169.18	CS3
ATOM	35452	CD	ARG	C	132	178.371	127.679	19.410	1.00169.18	CS3
ATOM	35453	NE	ARG	C	132	177.614	126.569	18.837	1.00169.18	CS3
ATOM	35454	CZ	ARG	C	132	176.995	125.636	19.553	1.00169.18	CS3
ATOM	35455	NH1	ARG	C	132	177.043	125.676	20.877	1.00169.18	CS3
ATOM	35456	NH2	ARG	C	132	176.334	124.658	18.947	1.00169.18	CS3
ATOM	35457	C	ARG	C	132	182.184	130.849	18.913	1.00123.85	CS3
ATOM	35458	O	ARG	C	132	182.332	132.030	18.591	1.00123.85	CS3
ATOM	35459	N	ALA	C	133	182.775	130.292	19.963	1.00 98.63	CS3
ATOM	35460	CA	ALA	C	133	183.655	131.036	20.848	1.00 98.63	CS3
ATOM	35461	CB	ALA	C	133	184.505	130.065	21.639	1.00 57.64	CS3
ATOM	35462	C	ALA	C	133	184.554	132.023	20.103	1.00 98.63	CS3
ATOM	35463	O	ALA	C	133	184.898	133.087	20.624	1.00 98.63	CS3
ATOM	35464	N	ILE	C	134	184.924	131.668	18.879	1.00 84.20	CS3
ATOM	35465	CA	ILE	C	134	185.803	132.505	18.076	1.00 84.20	CS3
ATOM	35466	CB	ILE	C	134	186.559	131.656	17.035	1.00 78.77	CS3
ATOM	35467	CG2	ILE	C	134	187.605	132.499	16.336	1.00 78.77	CS3
ATOM	35468	CG1	ILE	C	134	187.253	130.489	17.735	1.00 78.77	CS3
ATOM	35469	CD1	ILE	C	134	187.840	129.486	16.797	1.00 78.77	CS3
ATOM	35470	C	ILE	C	134	185.077	133.633	17.359	1.00 84.20	CS3
ATOM	35471	O	ILE	C	134	185.504	134.787	17.429	1.00 84.20	CS3
ATOM	35472	N	LYS	C	135	183.993	133.302	16.661	1.00 98.84	CS3
ATOM	35473	CA	LYS	C	135	183.226	134.311	15.942	1.00 98.84	CS3
ATOM	35474	CB	LYS	C	135	181.978	133.697	15.318	1.00121.00	CS3
ATOM	35475	CG	LYS	C	135	182.259	132.526	14.413	1.00121.00	CS3
ATOM	35476	CD	LYS	C	135	180.968	131.879	13.933	1.00121.00	CS3
ATOM	35477	CE	LYS	C	135	181.245	130.628	13.096	1.00121.00	CS3
ATOM	35478	NZ	LYS	C	135	180.002	130.011	12.531	1.00121.00	CS3
ATOM	35479	C	LYS	C	135	182.819	135.359	16.956	1.00 98.84	CS3
ATOM	35480	O	LYS	C	135	182.807	136.559	16.657	1.00 98.84	CS3
ATOM	35481	N	GLN	C	136	182.493	134.886	18.159	1.00 91.53	CS3
ATOM	35482	CA	GLN	C	136	182.090	135.755	19.266	1.00 91.53	CS3
ATOM	35483	CB	GLN	C	136	181.739	134.916	20.494	1.00117.48	CS3
ATOM	35484	CG	GLN	C	136	180.248	134.751	20.731	1.00117.48	CS3
ATOM	35485	CD	GLN	C	136	179.945	133.644	21.720	1.00117.48	CS3
ATOM	35486	OE1	GLN	C	136	180.556	133.568	22.787	1.00117.48	CS3
ATOM	35487	NE2	GLN	C	136	178.995	132.778	21.371	1.00117.48	CS3

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ATOM	35488	C	GLN	C	136	183.223	136.706	19.610	1.00	91.53	CS3
ATOM	35489	O	GLN	C	136	183.075	137.926	19.507	1.00	91.53	CS3
ATOM	35490	N	ALA	C	137	184.352	136.129	20.018	1.00	73.56	CS3
ATOM	35491	CA	ALA	C	137	185.547	136.892	20.371	1.00	73.56	CS3
ATOM	35492	CB	ALA	C	137	186.732	135.949	20.531	1.00	80.57	CS3
ATOM	35493	C	ALA	C	137	185.856	137.952	19.312	1.00	73.56	CS3
ATOM	35494	O	ALA	C	137	186.174	139.100	19.637	1.00	73.56	CS3
ATOM	35495	N	VAL	C	138	185.761	137.564	18.045	1.00	90.63	CS3
ATOM	35496	CA	VAL	C	138	186.017	138.498	16.958	1.00	90.63	CS3
ATOM	35497	CB	VAL	C	138	185.872	137.801	15.588	1.00	93.67	CS3
ATOM	35498	CG1	VAL	C	138	185.950	138.817	14.458	1.00	93.67	CS3
ATOM	35499	CG2	VAL	C	138	186.984	136.779	15.432	1.00	93.67	CS3
ATOM	35500	C	VAL	C	138	185.051	139.677	17.056	1.00	90.63	CS3
ATOM	35501	O	VAL	C	138	185.457	140.842	16.939	1.00	90.63	CS3
ATOM	35502	N	GLN	C	139	183.776	139.369	17.280	1.00	95.76	CS3
ATOM	35503	CA	GLN	C	139	182.769	140.408	17.412	1.00	95.76	CS3
ATOM	35504	CB	GLN	C	139	181.396	139.797	17.692	1.00	110.50	CS3
ATOM	35505	CG	GLN	C	139	180.528	139.680	16.452	1.00	110.50	CS3
ATOM	35506	CD	GLN	C	139	180.199	141.037	15.829	1.00	110.50	CS3
ATOM	35507	OE1	GLN	C	139	179.557	141.111	14.780	1.00	110.50	CS3
ATOM	35508	NE2	GLN	C	139	180.636	142.113	16.476	1.00	110.50	CS3
ATOM	35509	C	GLN	C	139	183.147	141.381	18.523	1.00	95.76	CS3
ATOM	35510	O	GLN	C	139	183.403	142.552	18.256	1.00	95.76	CS3
ATOM	35511	N	ARG	C	140	183.192	140.898	19.764	1.00	89.75	CS3
ATOM	35512	CA	ARG	C	140	183.555	141.747	20.896	1.00	89.75	CS3
ATOM	35513	CB	ARG	C	140	184.084	140.904	22.056	1.00	108.86	CS3
ATOM	35514	CG	ARG	C	140	183.168	139.808	22.535	1.00	108.86	CS3
ATOM	35515	CD	ARG	C	140	183.978	138.827	23.362	1.00	108.86	CS3
ATOM	35516	NE	ARG	C	140	183.284	137.563	23.607	1.00	108.86	CS3
ATOM	35517	CZ	ARG	C	140	183.900	136.402	23.831	1.00	108.86	CS3
ATOM	35518	NH1	ARG	C	140	185.230	136.339	23.837	1.00	108.86	CS3
ATOM	35519	NH2	ARG	C	140	183.191	135.299	24.053	1.00	108.86	CS3
ATOM	35520	C	ARG	C	140	184.648	142.720	20.462	1.00	89.75	CS3
ATOM	35521	O	ARG	C	140	184.444	143.936	20.448	1.00	89.75	CS3
ATOM	35522	N	VAL	C	141	185.802	142.166	20.092	1.00	86.49	CS3
ATOM	35523	CA	VAL	C	141	186.952	142.962	19.665	1.00	86.49	CS3
ATOM	35524	CB	VAL	C	141	188.077	142.069	19.083	1.00	63.23	CS3
ATOM	35525	CG1	VAL	C	141	189.315	142.924	18.762	1.00	63.23	CS3
ATOM	35526	CG2	VAL	C	141	188.427	140.959	20.067	1.00	63.23	CS3
ATOM	35527	C	VAL	C	141	186.562	143.972	18.600	1.00	86.49	CS3
ATOM	35528	O	VAL	C	141	186.954	145.139	18.639	1.00	86.49	CS3
ATOM	35529	N	MET	C	142	185.784	143.506	17.641	1.00	117.31	CS3
ATOM	35530	CA	MET	C	142	185.346	144.353	16.553	1.00	117.31	CS3
ATOM	35531	CB	MET	C	142	184.763	143.456	15.453	1.00	92.84	CS3
ATOM	35532	CG	MET	C	142	184.965	143.968	14.047	1.00	92.84	CS3
ATOM	35533	SD	MET	C	142	186.652	144.538	13.785	1.00	92.84	CS3
ATOM	35534	CE	MET	C	142	186.307	146.207	13.212	1.00	92.84	CS3
ATOM	35535	C	MET	C	142	184.307	145.369	17.054	1.00	117.31	CS3
ATOM	35536	O	MET	C	142	184.330	146.549	16.686	1.00	117.31	CS3
ATOM	35537	N	GLU	C	143	183.424	144.894	17.927	1.00	120.94	CS3
ATOM	35538	CA	GLU	C	143	182.334	145.687	18.483	1.00	120.94	CS3
ATOM	35539	CB	GLU	C	143	181.204	144.744	18.908	1.00	154.84	CS3
ATOM	35540	CG	GLU	C	143	179.820	145.367	18.980	1.00	154.84	CS3
ATOM	35541	CD	GLU	C	143	178.753	144.348	19.343	1.00	154.84	CS3
ATOM	35542	OE1	GLU	C	143	178.756	143.864	20.496	1.00	154.84	CS3
ATOM	35543	OE2	GLU	C	143	177.917	144.024	18.473	1.00	154.84	CS3
ATOM	35544	C	GLU	C	143	182.730	146.584	19.655	1.00	120.94	CS3
ATOM	35545	O	GLU	C	143	181.881	146.992	20.446	1.00	120.94	CS3
ATOM	35546	N	SER	C	144	184.014	146.884	19.779	1.00	80.11	CS3
ATOM	35547	CA	SER	C	144	184.470	147.756	20.849	1.00	80.11	CS3
ATOM	35548	CB	SER	C	144	184.719	146.962	22.145	1.00	88.84	CS3
ATOM	35549	OG	SER	C	144	185.799	146.059	22.025	1.00	88.84	CS3
ATOM	35550	C	SER	C	144	185.732	148.489	20.405	1.00	80.11	CS3
ATOM	35551	O	SER	C	144	186.779	148.424	21.055	1.00	80.11	CS3
ATOM	35552	N	GLY	C	145	185.611	149.191	19.281	1.00	130.94	CS3
ATOM	35553	CA	GLY	C	145	186.728	149.942	18.742	1.00	130.94	CS3
ATOM	35554	C	GLY	C	145	187.316	149.271	17.521	1.00	130.94	CS3
ATOM	35555	O	GLY	C	145	186.817	149.446	16.412	1.00	130.94	CS3
ATOM	35556	N	ALA	C	146	188.378	148.501	17.750	1.00	118.45	CS3
ATOM	35557	CA	ALA	C	146	189.110	147.757	16.721	1.00	118.45	CS3
ATOM	35558	CB	ALA	C	146	189.024	146.256	17.016	1.00	65.88	CS3
ATOM	35559	C	ALA	C	146	188.722	148.017	15.266	1.00	118.45	CS3
ATOM	35560	O	ALA	C	146	187.552	147.933	14.898	1.00	118.45	CS3
ATOM	35561	N	LYS	C	147	189.721	148.328	14.442	1.00	91.84	CS3
ATOM	35562	CA	LYS	C	147	189.497	148.572	13.022	1.00	91.84	CS3
ATOM	35563	CB	LYS	C	147	190.418	149.684	12.500	1.00	110.80	CS3
ATOM	35564	CG	LYS	C	147	190.131	151.069	13.086	1.00	110.80	CS3

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ATOM	35565	CD	LYS	C	147	190.514	152.209	12.125	1.00110.80	CS3
ATOM	35566	CE	LYS	C	147	192.002	152.205	11.780	1.00110.80	CS3
ATOM	35567	NZ	LYS	C	147	192.407	153.306	10.854	1.00110.80	CS3
ATOM	35568	C	LYS	C	147	189.749	147.279	12.248	1.00 91.84	CS3
ATOM	35569	O	LYS	C	147	189.561	147.229	11.033	1.00 91.84	CS3
ATOM	35570	N	GLY	C	148	190.167	146.239	12.970	1.00 74.81	CS3
ATOM	35571	CA	GLY	C	148	190.435	144.944	12.364	1.00 74.81	CS3
ATOM	35572	C	GLY	C	148	190.774	143.916	13.431	1.00 74.81	CS3
ATOM	35573	O	GLY	C	148	191.459	144.236	14.409	1.00 74.81	CS3
ATOM	35574	N	ALA	C	149	190.308	142.681	13.262	1.00 67.66	CS3
ATOM	35575	CA	ALA	C	149	190.579	141.640	14.250	1.00 67.66	CS3
ATOM	35576	CB	ALA	C	149	189.580	141.755	15.392	1.00 55.97	CS3
ATOM	35577	C	ALA	C	149	190.524	140.235	13.647	1.00 67.66	CS3
ATOM	35578	O	ALA	C	149	189.768	139.980	12.706	1.00 67.66	CS3
ATOM	35579	N	LYS	C	150	191.319	139.321	14.195	1.00 71.47	CS3
ATOM	35580	CA	LYS	C	150	191.353	137.952	13.698	1.00 71.47	CS3
ATOM	35581	CB	LYS	C	150	192.302	137.870	12.502	1.00 84.11	CS3
ATOM	35582	CG	LYS	C	150	192.586	136.465	12.016	1.00 84.11	CS3
ATOM	35583	CD	LYS	C	150	193.551	136.483	10.840	1.00 84.11	CS3
ATOM	35584	CE	LYS	C	150	193.971	135.077	10.442	1.00 84.11	CS3
ATOM	35585	NZ	LYS	C	150	194.886	135.045	9.261	1.00 84.11	CS3
ATOM	35586	C	LYS	C	150	191.795	136.974	14.786	1.00 71.47	CS3
ATOM	35587	O	LYS	C	150	192.689	137.267	15.578	1.00 71.47	CS3
ATOM	35588	N	VAL	C	151	191.165	135.811	14.834	1.00 88.17	CS3
ATOM	35589	CA	VAL	C	151	191.524	134.823	15.839	1.00 88.17	CS3
ATOM	35590	CB	VAL	C	151	190.364	134.545	16.782	1.00 67.40	CS3
ATOM	35591	CG1	VAL	C	151	190.820	133.639	17.909	1.00 67.40	CS3
ATOM	35592	CG2	VAL	C	151	189.809	135.844	17.310	1.00 67.40	CS3
ATOM	35593	C	VAL	C	151	191.881	133.527	15.146	1.00 88.17	CS3
ATOM	35594	O	VAL	C	151	191.497	133.314	14.003	1.00 88.17	CS3
ATOM	35595	N	ILE	C	152	192.594	132.650	15.837	1.00 77.63	CS3
ATOM	35596	CA	ILE	C	152	193.000	131.388	15.240	1.00 77.63	CS3
ATOM	35597	CB	ILE	C	152	194.356	131.525	14.517	1.00 52.68	CS3
ATOM	35598	CG2	ILE	C	152	194.780	130.181	13.986	1.00 52.68	CS3
ATOM	35599	CG1	ILE	C	152	194.271	132.545	13.374	1.00 52.68	CS3
ATOM	35600	CD1	ILE	C	152	195.628	133.024	12.873	1.00 52.68	CS3
ATOM	35601	C	ILE	C	152	193.179	130.300	16.280	1.00 77.63	CS3
ATOM	35602	O	ILE	C	152	193.908	130.484	17.260	1.00 77.63	CS3
ATOM	35603	N	VAL	C	153	192.527	129.163	16.067	1.00 77.42	CS3
ATOM	35604	CA	VAL	C	153	192.670	128.044	16.988	1.00 77.42	CS3
ATOM	35605	CB	VAL	C	153	191.302	127.515	17.460	1.00 70.28	CS3
ATOM	35606	CG1	VAL	C	153	191.490	126.245	18.280	1.00 70.28	CS3
ATOM	35607	CG2	VAL	C	153	190.606	128.569	18.302	1.00 70.28	CS3
ATOM	35608	C	VAL	C	153	193.430	126.948	16.246	1.00 77.42	CS3
ATOM	35609	O	VAL	C	153	193.262	126.775	15.039	1.00 77.42	CS3
ATOM	35610	N	SER	C	154	194.276	126.224	16.969	1.00 96.06	CS3
ATOM	35611	CA	SER	C	154	195.082	125.159	16.391	1.00 96.06	CS3
ATOM	35612	CB	SER	C	154	196.046	124.630	17.431	1.00 74.51	CS3
ATOM	35613	OG	SER	C	154	195.355	123.773	18.324	1.00 74.51	CS3
ATOM	35614	C	SER	C	154	194.240	123.992	15.890	1.00 96.06	CS3
ATOM	35615	O	SER	C	154	193.255	124.187	15.176	1.00 96.06	CS3
ATOM	35616	N	GLY	C	155	194.641	122.778	16.275	1.00 88.34	CS3
ATOM	35617	CA	GLY	C	155	193.935	121.573	15.863	1.00 88.34	CS3
ATOM	35618	C	GLY	C	155	193.538	120.734	17.057	1.00 88.34	CS3
ATOM	35619	O	GLY	C	155	194.013	120.986	18.160	1.00 88.34	CS3
ATOM	35620	N	ARG	C	156	192.703	119.723	16.816	1.00 85.20	CS3
ATOM	35621	CA	ARG	C	156	192.150	118.813	17.836	1.00 85.20	CS3
ATOM	35622	CB	ARG	C	156	193.067	118.644	19.048	1.00 77.06	CS3
ATOM	35623	CG	ARG	C	156	194.246	117.730	18.816	1.00 77.06	CS3
ATOM	35624	CD	ARG	C	156	194.156	116.442	19.643	1.00 77.06	CS3
ATOM	35625	NE	ARG	C	156	193.058	115.562	19.242	1.00 77.06	CS3
ATOM	35626	CZ	ARG	C	156	192.873	114.333	19.725	1.00 77.06	CS3
ATOM	35627	NH1	ARG	C	156	193.715	113.832	20.629	1.00 77.06	CS3
ATOM	35628	NH2	ARG	C	156	191.842	113.602	19.309	1.00 77.06	CS3
ATOM	35629	C	ARG	C	156	190.844	119.439	18.285	1.00 85.20	CS3
ATOM	35630	O	ARG	C	156	190.256	119.037	19.286	1.00 85.20	CS3
ATOM	35631	N	ILE	C	157	190.420	120.444	17.521	1.00 61.06	CS3
ATOM	35632	CA	ILE	C	157	189.190	121.176	17.756	1.00 61.06	CS3
ATOM	35633	CB	ILE	C	157	188.827	121.986	16.512	1.00 81.81	CS3
ATOM	35634	CG2	ILE	C	157	187.359	122.355	16.522	1.00 81.81	CS3
ATOM	35635	CG1	ILE	C	157	189.723	123.218	16.445	1.00 81.81	CS3
ATOM	35636	CD1	ILE	C	157	189.422	124.117	15.272	1.00 81.81	CS3
ATOM	35637	C	ILE	C	157	188.028	120.265	18.122	1.00 61.06	CS3
ATOM	35638	O	ILE	C	157	187.519	119.522	17.277	1.00 61.06	CS3
ATOM	35639	N	GLY	C	158	187.620	120.335	19.390	1.00 77.30	CS3
ATOM	35640	CA	GLY	C	158	186.517	119.526	19.880	1.00 77.30	CS3
ATOM	35641	C	GLY	C	158	186.839	118.058	20.119	1.00 77.30	CS3

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ATOM	35642	O	GLY	C	158	185.963	117.201	20.025	1.00	77.30	CS3
ATOM	35643	N	GLY	C	159	188.092	117.754	20.438	1.00	91.16	CS3
ATOM	35644	CA	GLY	C	159	188.464	116.368	20.675	1.00	91.16	CS3
ATOM	35645	C	GLY	C	159	188.559	115.589	19.379	1.00	91.16	CS3
ATOM	35646	O	GLY	C	159	188.934	114.411	19.384	1.00	91.16	CS3
ATOM	35647	N	ALA	C	160	188.216	116.258	18.274	1.00	120.54	CS3
ATOM	35648	CA	ALA	C	160	188.256	115.666	16.937	1.00	120.54	CS3
ATOM	35649	CB	ALA	C	160	188.125	116.754	15.873	1.00	80.94	CS3
ATOM	35650	C	ALA	C	160	189.573	114.929	16.779	1.00	120.54	CS3
ATOM	35651	O	ALA	C	160	190.645	115.526	16.879	1.00	120.54	CS3
ATOM	35652	N	GLU	C	161	189.489	113.628	16.534	1.00	83.47	CS3
ATOM	35653	CA	GLU	C	161	190.684	112.808	16.406	1.00	83.47	CS3
ATOM	35654	CB	GLU	C	161	190.282	111.364	16.142	1.00	135.96	CS3
ATOM	35655	CG	GLU	C	161	191.426	110.393	16.212	1.00	135.96	CS3
ATOM	35656	CD	GLU	C	161	190.945	108.964	16.256	1.00	135.96	CS3
ATOM	35657	OE1	GLU	C	161	191.790	108.049	16.166	1.00	135.96	CS3
ATOM	35658	OE2	GLU	C	161	189.720	108.756	16.386	1.00	135.96	CS3
ATOM	35659	C	GLU	C	161	191.661	113.293	15.332	1.00	83.47	CS3
ATOM	35660	O	GLU	C	161	192.865	113.016	15.412	1.00	83.47	CS3
ATOM	35661	N	GLN	C	162	191.142	114.021	14.340	1.00	85.06	CS3
ATOM	35662	CA	GLN	C	162	191.963	114.552	13.251	1.00	85.06	CS3
ATOM	35663	CB	GLN	C	162	191.318	114.238	11.900	1.00	144.69	CS3
ATOM	35664	CG	GLN	C	162	192.268	113.607	10.893	1.00	144.69	CS3
ATOM	35665	CD	GLN	C	162	193.625	114.284	10.868	1.00	144.69	CS3
ATOM	35666	OE1	GLN	C	162	193.716	115.510	10.849	1.00	144.69	CS3
ATOM	35667	NE2	GLN	C	162	194.690	113.485	10.860	1.00	144.69	CS3
ATOM	35668	C	GLN	C	162	192.139	116.064	13.396	1.00	85.06	CS3
ATOM	35669	O	GLN	C	162	191.208	116.831	13.162	1.00	85.06	CS3
ATOM	35670	N	ALA	C	163	193.348	116.470	13.777	1.00	68.69	CS3
ATOM	35671	CA	ALA	C	163	193.700	117.876	13.995	1.00	68.69	CS3
ATOM	35672	CB	ALA	C	163	195.182	117.983	14.304	1.00	71.76	CS3
ATOM	35673	C	ALA	C	163	193.354	118.792	12.831	1.00	68.69	CS3
ATOM	35674	O	ALA	C	163	193.562	118.431	11.676	1.00	68.69	CS3
ATOM	35675	N	ARG	C	164	192.839	119.983	13.130	1.00	67.61	CS3
ATOM	35676	CA	ARG	C	164	192.472	120.921	12.072	1.00	67.61	CS3
ATOM	35677	CB	ARG	C	164	190.987	120.770	11.707	1.00	95.64	CS3
ATOM	35678	CG	ARG	C	164	190.003	120.921	12.856	1.00	95.64	CS3
ATOM	35679	CD	ARG	C	164	188.814	119.970	12.682	1.00	95.64	CS3
ATOM	35680	NE	ARG	C	164	187.610	120.475	13.329	1.00	95.64	CS3
ATOM	35681	CZ	ARG	C	164	186.978	121.578	12.945	1.00	95.64	CS3
ATOM	35682	NH1	ARG	C	164	187.436	122.286	11.918	1.00	95.64	CS3
ATOM	35683	NH2	ARG	C	164	185.893	121.976	13.587	1.00	95.64	CS3
ATOM	35684	C	ARG	C	164	192.793	122.358	12.430	1.00	67.61	CS3
ATOM	35685	O	ARG	C	164	193.733	122.597	13.163	1.00	67.61	CS3
ATOM	35686	N	THR	C	165	192.030	123.316	11.918	1.00	79.02	CS3
ATOM	35687	CA	THR	C	165	192.318	124.716	12.210	1.00	79.02	CS3
ATOM	35688	CB	THR	C	165	193.502	125.198	11.335	1.00	65.05	CS3
ATOM	35689	OG1	THR	C	165	194.737	124.909	12.006	1.00	65.05	CS3
ATOM	35690	CG2	THR	C	165	193.410	126.686	11.052	1.00	65.05	CS3
ATOM	35691	C	THR	C	165	191.119	125.647	12.026	1.00	79.02	CS3
ATOM	35692	O	THR	C	165	190.489	125.661	10.963	1.00	79.02	CS3
ATOM	35693	N	GLU	C	166	190.817	126.438	13.058	1.00	68.96	CS3
ATOM	35694	CA	GLU	C	166	189.684	127.353	12.996	1.00	68.96	CS3
ATOM	35695	CB	GLU	C	166	188.817	127.189	14.243	1.00	135.08	CS3
ATOM	35696	CG	GLU	C	166	187.349	126.928	13.920	1.00	135.08	CS3
ATOM	35697	CD	GLU	C	166	187.163	125.885	12.826	1.00	135.08	CS3
ATOM	35698	OE1	GLU	C	166	187.659	124.748	12.986	1.00	135.08	CS3
ATOM	35699	OE2	GLU	C	166	186.518	126.205	11.805	1.00	135.08	CS3
ATOM	35700	C	GLU	C	166	190.055	128.821	12.791	1.00	68.96	CS3
ATOM	35701	O	GLU	C	166	190.923	129.370	13.479	1.00	68.96	CS3
ATOM	35702	N	TRP	C	167	189.345	129.434	11.844	1.00	79.96	CS3
ATOM	35703	CA	TRP	C	167	189.516	130.813	11.395	1.00	79.96	CS3
ATOM	35704	CB	TRP	C	167	189.010	130.901	9.975	1.00	105.72	CS3
ATOM	35705	CG	TRP	C	167	190.081	131.133	9.067	1.00	105.72	CS3
ATOM	35706	CD2	TRP	C	167	190.440	132.384	8.497	1.00	105.72	CS3
ATOM	35707	CE2	TRP	C	167	191.603	132.176	7.745	1.00	105.72	CS3
ATOM	35708	CE3	TRP	C	167	189.892	133.669	8.555	1.00	105.72	CS3
ATOM	35709	CD1	TRP	C	167	191.000	130.234	8.654	1.00	105.72	CS3
ATOM	35710	NE1	TRP	C	167	191.924	130.848	7.857	1.00	105.72	CS3
ATOM	35711	CZ2	TRP	C	167	192.237	133.206	7.043	1.00	105.72	CS3
ATOM	35712	CZ3	TRP	C	167	190.518	134.694	7.860	1.00	105.72	CS3
ATOM	35713	CH2	TRP	C	167	191.680	134.457	7.114	1.00	105.72	CS3
ATOM	35714	C	TRP	C	167	188.886	131.954	12.178	1.00	79.96	CS3
ATOM	35715	O	TRP	C	167	189.096	132.080	13.378	1.00	79.96	CS3
ATOM	35716	N	ALA	C	168	188.146	132.799	11.449	1.00	76.32	CS3
ATOM	35717	CA	ALA	C	168	187.403	133.974	11.958	1.00	76.32	CS3
ATOM	35718	CB	ALA	C	168	186.927	133.721	13.382	1.00	93.42	CS3

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ATOM	35719	C	ALA	C	168	188.126	135.319	11.897	1.00	76.32	CS3
ATOM	35720	O	ALA	C	168	189.187	135.483	12.507	1.00	76.32	CS3
ATOM	35721	N	ALA	C	169	187.545	136.284	11.181	1.00	68.36	CS3
ATOM	35722	CA	ALA	C	169	188.156	137.614	11.076	1.00	68.36	CS3
ATOM	35723	CB	ALA	C	169	189.438	137.518	10.310	1.00	49.22	CS3
ATOM	35724	C	ALA	C	169	187.272	138.684	10.441	1.00	68.36	CS3
ATOM	35725	O	ALA	C	169	186.362	138.362	9.677	1.00	68.36	CS3
ATOM	35726	N	GLN	C	170	187.555	139.954	10.756	1.00	64.10	CS3
ATOM	35727	CA	GLN	C	170	186.810	141.118	10.219	1.00	64.10	CS3
ATOM	35728	CB	GLN	C	170	185.621	141.487	11.117	1.00	120.53	CS3
ATOM	35729	CG	GLN	C	170	184.458	140.517	11.146	1.00	120.53	CS3
ATOM	35730	CD	GLN	C	170	183.366	140.971	12.111	1.00	120.53	CS3
ATOM	35731	OE1	GLN	C	170	182.808	142.061	11.966	1.00	120.53	CS3
ATOM	35732	NE2	GLN	C	170	183.063	140.136	13.103	1.00	120.53	CS3
ATOM	35733	C	GLN	C	170	187.697	142.373	10.093	1.00	64.10	CS3
ATOM	35734	O	GLN	C	170	188.703	142.509	10.803	1.00	64.10	CS3
ATOM	35735	N	GLY	C	171	187.306	143.287	9.200	1.00	73.07	CS3
ATOM	35736	CA	GLY	C	171	188.050	144.525	9.001	1.00	73.07	CS3
ATOM	35737	C	GLY	C	171	189.494	144.338	8.574	1.00	73.07	CS3
ATOM	35738	O	GLY	C	171	189.994	143.217	8.578	1.00	73.07	CS3
ATOM	35739	N	ARG	C	172	190.179	145.421	8.211	1.00	70.51	CS3
ATOM	35740	CA	ARG	C	172	191.571	145.312	7.778	1.00	70.51	CS3
ATOM	35741	CB	ARG	C	172	192.106	146.671	7.318	1.00	138.18	CS3
ATOM	35742	CG	ARG	C	172	191.409	147.215	6.089	1.00	138.18	CS3
ATOM	35743	CD	ARG	C	172	192.281	148.195	5.303	1.00	138.18	CS3
ATOM	35744	NE	ARG	C	172	192.708	149.360	6.077	1.00	138.18	CS3
ATOM	35745	CZ	ARG	C	172	193.789	149.398	6.853	1.00	138.18	CS3
ATOM	35746	NH1	ARG	C	172	194.572	148.332	6.967	1.00	138.18	CS3
ATOM	35747	NH2	ARG	C	172	194.091	150.507	7.518	1.00	138.18	CS3
ATOM	35748	C	ARG	C	172	192.493	144.739	8.857	1.00	70.51	CS3
ATOM	35749	O	ARG	C	172	192.509	145.213	9.992	1.00	70.51	CS3
ATOM	35750	N	VAL	C	173	193.255	143.707	8.495	1.00	73.16	CS3
ATOM	35751	CA	VAL	C	173	194.201	143.062	9.412	1.00	73.16	CS3
ATOM	35752	CB	VAL	C	173	193.674	141.680	9.855	1.00	54.31	CS3
ATOM	35753	CG1	VAL	C	173	194.479	141.163	11.045	1.00	54.31	CS3
ATOM	35754	CG2	VAL	C	173	192.199	141.781	10.207	1.00	54.31	CS3
ATOM	35755	C	VAL	C	173	195.521	142.880	8.658	1.00	73.16	CS3
ATOM	35756	O	VAL	C	173	196.080	141.788	8.623	1.00	73.16	CS3
ATOM	35757	N	PRO	C	174	196.037	143.970	8.060	1.00	102.23	CS3
ATOM	35758	CD	PRO	C	174	195.513	145.326	8.319	1.00	72.51	CS3
ATOM	35759	CA	PRO	C	174	197.269	144.055	7.269	1.00	102.23	CS3
ATOM	35760	CB	PRO	C	174	197.254	145.502	6.799	1.00	72.51	CS3
ATOM	35761	CG	PRO	C	174	196.691	146.208	7.988	1.00	72.51	CS3
ATOM	35762	C	PRO	C	174	198.576	143.697	7.964	1.00	102.23	CS3
ATOM	35763	O	PRO	C	174	199.200	144.553	8.592	1.00	102.23	CS3
ATOM	35764	N	LEU	C	175	199.009	142.446	7.821	1.00	65.72	CS3
ATOM	35765	CA	LEU	C	175	200.245	142.013	8.465	1.00	65.72	CS3
ATOM	35766	CB	LEU	C	175	200.230	140.499	8.709	1.00	51.81	CS3
ATOM	35767	CG	LEU	C	175	199.144	139.800	9.545	1.00	51.81	CS3
ATOM	35768	CD1	LEU	C	175	199.820	138.716	10.391	1.00	51.81	CS3
ATOM	35769	CD2	LEU	C	175	198.403	140.771	10.456	1.00	51.81	CS3
ATOM	35770	C	LEU	C	175	201.502	142.391	7.678	1.00	65.72	CS3
ATOM	35771	O	LEU	C	175	202.615	142.325	8.192	1.00	65.72	CS3
ATOM	35772	N	HIS	C	176	201.335	142.786	6.426	1.00	91.84	CS3
ATOM	35773	CA	HIS	C	176	202.493	143.154	5.631	1.00	91.84	CS3
ATOM	35774	CB	HIS	C	176	202.271	142.841	4.152	1.00	95.58	CS3
ATOM	35775	CG	HIS	C	176	202.669	141.458	3.752	1.00	95.58	CS3
ATOM	35776	CD2	HIS	C	176	203.621	141.021	2.894	1.00	95.58	CS3
ATOM	35777	ND1	HIS	C	176	202.017	140.332	4.206	1.00	95.58	CS3
ATOM	35778	CE1	HIS	C	176	202.543	139.262	3.640	1.00	95.58	CS3
ATOM	35779	NE2	HIS	C	176	203.517	139.652	2.838	1.00	95.58	CS3
ATOM	35780	C	HIS	C	176	202.771	144.633	5.766	1.00	91.84	CS3
ATOM	35781	O	HIS	C	176	203.915	145.064	5.622	1.00	91.84	CS3
ATOM	35782	N	THR	C	177	201.724	145.412	6.029	1.00	88.88	CS3
ATOM	35783	CA	THR	C	177	201.881	146.856	6.151	1.00	88.88	CS3
ATOM	35784	CB	THR	C	177	200.510	147.571	6.100	1.00	94.26	CS3
ATOM	35785	OG1	THR	C	177	200.705	148.989	6.099	1.00	94.26	CS3
ATOM	35786	CG2	THR	C	177	199.671	147.188	7.277	1.00	94.26	CS3
ATOM	35787	C	THR	C	177	202.653	147.219	7.419	1.00	88.88	CS3
ATOM	35788	O	THR	C	177	202.106	147.316	8.513	1.00	88.88	CS3
ATOM	35789	N	LEU	C	178	203.956	147.387	7.237	1.00	107.18	CS3
ATOM	35790	CA	LEU	C	178	204.884	147.723	8.303	1.00	107.18	CS3
ATOM	35791	CB	LEU	C	178	206.299	147.683	7.742	1.00	71.08	CS3
ATOM	35792	CG	LEU	C	178	207.479	147.753	8.699	1.00	71.08	CS3
ATOM	35793	CD1	LEU	C	178	207.482	146.538	9.624	1.00	71.08	CS3
ATOM	35794	CD2	LEU	C	178	208.761	147.807	7.881	1.00	71.08	CS3
ATOM	35795	C	LEU	C	178	204.558	149.122	8.770	1.00	107.18	CS3

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ATOM	35796	O	LEU	C	178	205.250	150.067	8.403	1.00107.18	CS3
ATOM	35797	N	ARG	C	179	203.511	149.251	9.582	1.00 83.24	CS3
ATOM	35798	CA	ARG	C	179	203.059	150.553	10.073	1.00 83.24	CS3
ATOM	35799	CB	ARG	C	179	203.112	151.570	8.918	1.00113.61	CS3
ATOM	35800	CG	ARG	C	179	202.234	152.793	9.035	1.00113.61	CS3
ATOM	35801	CD	ARG	C	179	200.802	152.501	8.607	1.00113.61	CS3
ATOM	35802	NE	ARG	C	179	200.598	152.511	7.159	1.00113.61	CS3
ATOM	35803	CZ	ARG	C	179	200.690	153.592	6.387	1.00113.61	CS3
ATOM	35804	NH1	ARG	C	179	200.994	154.772	6.912	1.00113.61	CS3
ATOM	35805	NH2	ARG	C	179	200.451	153.497	5.087	1.00113.61	CS3
ATOM	35806	C	ARG	C	179	201.634	150.406	10.601	1.00 83.24	CS3
ATOM	35807	O	ARG	C	179	201.034	151.351	11.082	1.00 83.24	CS3
ATOM	35808	N	ALA	C	180	201.104	149.195	10.521	1.00114.20	CS3
ATOM	35809	CA	ALA	C	180	199.745	148.922	10.964	1.00114.20	CS3
ATOM	35810	CB	ALA	C	180	199.352	147.503	10.573	1.00119.48	CS3
ATOM	35811	C	ALA	C	180	199.525	149.102	12.450	1.00114.20	CS3
ATOM	35812	O	ALA	C	180	198.682	149.900	12.874	1.00114.20	CS3
ATOM	35813	N	ASN	C	181	200.300	148.358	13.230	1.00 85.60	CS3
ATOM	35814	CA	ASN	C	181	200.176	148.347	14.686	1.00 85.60	CS3
ATOM	35815	CB	ASN	C	181	199.744	149.700	15.266	1.00102.17	CS3
ATOM	35816	CG	ASN	C	181	199.343	149.600	16.736	1.00102.17	CS3
ATOM	35817	OD1	ASN	C	181	200.075	149.046	17.559	1.00102.17	CS3
ATOM	35818	ND2	ASN	C	181	198.177	150.136	17.066	1.00102.17	CS3
ATOM	35819	C	ASN	C	181	199.077	147.337	14.908	1.00 85.60	CS3
ATOM	35820	O	ASN	C	181	197.892	147.667	14.954	1.00 85.60	CS3
ATOM	35821	N	ILE	C	182	199.484	146.090	15.034	1.00101.70	CS3
ATOM	35822	CA	ILE	C	182	198.527	145.028	15.194	1.00101.70	CS3
ATOM	35823	CB	ILE	C	182	198.514	144.173	13.913	1.00101.44	CS3
ATOM	35824	CG2	ILE	C	182	197.434	143.119	14.007	1.00101.44	CS3
ATOM	35825	CG1	ILE	C	182	198.316	145.093	12.695	1.00101.44	CS3
ATOM	35826	CD1	ILE	C	182	198.143	144.380	11.373	1.00101.44	CS3
ATOM	35827	C	ILE	C	182	198.858	144.182	16.407	1.00101.70	CS3
ATOM	35828	O	ILE	C	182	199.701	143.294	16.346	1.00101.70	CS3
ATOM	35829	N	ASP	C	183	198.197	144.460	17.520	1.00 85.44	CS3
ATOM	35830	CA	ASP	C	183	198.462	143.695	18.724	1.00 85.44	CS3
ATOM	35831	CB	ASP	C	183	197.587	144.186	19.883	1.00125.49	CS3
ATOM	35832	CG	ASP	C	183	198.054	143.662	21.237	1.00125.49	CS3
ATOM	35833	OD1	ASP	C	183	197.332	143.866	22.231	1.00125.49	CS3
ATOM	35834	OD2	ASP	C	183	199.142	143.052	21.314	1.00125.49	CS3
ATOM	35835	C	ASP	C	183	198.211	142.209	18.463	1.00 85.44	CS3
ATOM	35836	O	ASP	C	183	197.127	141.796	18.033	1.00 85.44	CS3
ATOM	35837	N	TYR	C	184	199.244	141.416	18.711	1.00 63.52	CS3
ATOM	35838	CA	TYR	C	184	199.177	139.977	18.539	1.00 63.52	CS3
ATOM	35839	CB	TYR	C	184	200.432	139.488	17.810	1.00 85.65	CS3
ATOM	35840	CG	TYR	C	184	200.661	137.990	17.843	1.00 85.65	CS3
ATOM	35841	CD1	TYR	C	184	199.976	137.139	16.983	1.00 85.65	CS3
ATOM	35842	CE1	TYR	C	184	200.187	135.763	17.019	1.00 85.65	CS3
ATOM	35843	CD2	TYR	C	184	201.563	137.431	18.744	1.00 85.65	CS3
ATOM	35844	CE2	TYR	C	184	201.781	136.063	18.792	1.00 85.65	CS3
ATOM	35845	CZ	TYR	C	184	201.092	135.230	17.929	1.00 85.65	CS3
ATOM	35846	OH	TYR	C	184	201.305	133.865	17.984	1.00 85.65	CS3
ATOM	35847	C	TYR	C	184	199.108	139.347	19.923	1.00 63.52	CS3
ATOM	35848	O	TYR	C	184	199.625	139.893	20.903	1.00 63.52	CS3
ATOM	35849	N	GLY	C	185	198.472	138.195	20.013	1.00 75.81	CS3
ATOM	35850	CA	GLY	C	185	198.399	137.556	21.301	1.00 75.81	CS3
ATOM	35851	C	GLY	C	185	198.283	136.067	21.128	1.00 75.81	CS3
ATOM	35852	O	GLY	C	185	197.502	135.593	20.297	1.00 75.81	CS3
ATOM	35853	N	PHE	C	186	199.063	135.319	21.897	1.00 66.87	CS3
ATOM	35854	CA	PHE	C	186	198.990	133.879	21.803	1.00 66.87	CS3
ATOM	35855	CB	PHE	C	186	200.294	133.288	21.269	1.00 90.04	CS3
ATOM	35856	CG	PHE	C	186	200.348	131.793	21.372	1.00 90.04	CS3
ATOM	35857	CD1	PHE	C	186	199.595	130.999	20.518	1.00 90.04	CS3
ATOM	35858	CD2	PHE	C	186	201.090	131.179	22.380	1.00 90.04	CS3
ATOM	35859	CE1	PHE	C	186	199.574	129.609	20.672	1.00 90.04	CS3
ATOM	35860	CE2	PHE	C	186	201.075	129.791	22.542	1.00 90.04	CS3
ATOM	35861	CZ	PHE	C	186	200.316	129.003	21.689	1.00 90.04	CS3
ATOM	35862	C	PHE	C	186	198.690	133.258	23.148	1.00 66.87	CS3
ATOM	35863	O	PHE	C	186	199.302	133.596	24.149	1.00 66.87	CS3
ATOM	35864	N	ALA	C	187	197.746	132.333	23.155	1.00 68.00	CS3
ATOM	35865	CA	ALA	C	187	197.381	131.638	24.369	1.00 68.00	CS3
ATOM	35866	CB	ALA	C	187	196.017	132.114	24.835	1.00 53.94	CS3
ATOM	35867	C	ALA	C	187	197.366	130.126	24.096	1.00 68.00	CS3
ATOM	35868	O	ALA	C	187	196.899	129.666	23.042	1.00 68.00	CS3
ATOM	35869	N	LEU	C	188	197.895	129.362	25.047	1.00 74.05	CS3
ATOM	35870	CA	LEU	C	188	197.940	127.909	24.949	1.00 74.05	CS3
ATOM	35871	CB	LEU	C	188	198.905	127.379	26.006	1.00 77.59	CS3
ATOM	35872	CG	LEU	C	188	199.748	126.155	25.655	1.00 77.59	CS3

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ATOM	35873	CD1	LEU	C	188	198.926	124.885	25.742	1.00	77.59	CS3
ATOM	35874	CD2	LEU	C	188	200.327	126.356	24.261	1.00	77.59	CS3
ATOM	35875	C	LEU	C	188	196.518	127.395	25.207	1.00	74.05	CS3
ATOM	35876	O	LEU	C	188	195.551	128.103	24.926	1.00	74.05	CS3
ATOM	35877	N	ALA	C	189	196.384	126.176	25.729	1.00	69.36	CS3
ATOM	35878	CA	ALA	C	189	195.067	125.596	26.044	1.00	69.36	CS3
ATOM	35879	CB	ALA	C	189	194.058	125.843	24.903	1.00	30.92	CS3
ATOM	35880	C	ALA	C	189	195.140	124.106	26.330	1.00	69.36	CS3
ATOM	35881	O	ALA	C	189	194.564	123.300	25.595	1.00	69.36	CS3
ATOM	35882	N	ARG	C	190	195.837	123.735	27.398	1.00	87.23	CS3
ATOM	35883	CA	ARG	C	190	195.962	122.328	27.760	1.00	87.23	CS3
ATOM	35884	CB	ARG	C	190	196.734	122.218	29.077	1.00	136.24	CS3
ATOM	35885	CG	ARG	C	190	198.095	122.926	29.041	1.00	136.24	CS3
ATOM	35886	CD	ARG	C	190	198.878	122.800	30.353	1.00	136.24	CS3
ATOM	35887	NE	ARG	C	190	199.370	121.444	30.621	1.00	136.24	CS3
ATOM	35888	CZ	ARG	C	190	198.620	120.417	31.031	1.00	136.24	CS3
ATOM	35889	NH1	ARG	C	190	197.316	120.567	31.231	1.00	136.24	CS3
ATOM	35890	NH2	ARG	C	190	199.176	119.229	31.247	1.00	136.24	CS3
ATOM	35891	C	ARG	C	190	194.569	121.671	27.861	1.00	87.23	CS3
ATOM	35892	O	ARG	C	190	193.602	122.303	28.288	1.00	87.23	CS3
ATOM	35893	N	THR	C	191	194.469	120.407	27.456	1.00	86.88	CS3
ATOM	35894	CA	THR	C	191	193.188	119.704	27.476	1.00	86.88	CS3
ATOM	35895	CB	THR	C	191	192.491	119.813	26.126	1.00	68.19	CS3
ATOM	35896	OG1	THR	C	191	192.348	121.195	25.781	1.00	68.19	CS3
ATOM	35897	CG2	THR	C	191	191.120	119.130	26.172	1.00	68.19	CS3
ATOM	35898	C	THR	C	191	193.300	118.223	27.777	1.00	86.88	CS3
ATOM	35899	O	THR	C	191	194.387	117.655	27.748	1.00	86.88	CS3
ATOM	35900	N	THR	C	192	192.158	117.600	28.052	1.00	99.46	CS3
ATOM	35901	CA	THR	C	192	192.109	116.171	28.331	1.00	99.46	CS3
ATOM	35902	CB	THR	C	192	190.668	115.680	28.487	1.00	117.21	CS3
ATOM	35903	OG1	THR	C	192	190.043	116.396	29.555	1.00	117.21	CS3
ATOM	35904	CG2	THR	C	192	190.637	114.179	28.774	1.00	117.21	CS3
ATOM	35905	C	THR	C	192	192.698	115.457	27.138	1.00	99.46	CS3
ATOM	35906	O	THR	C	192	193.385	114.446	27.276	1.00	99.46	CS3
ATOM	35907	N	TYR	C	193	192.416	116.001	25.960	1.00	107.14	CS3
ATOM	35908	CA	TYR	C	193	192.905	115.416	24.733	1.00	107.14	CS3
ATOM	35909	CB	TYR	C	193	191.813	115.471	23.663	1.00	105.36	CS3
ATOM	35910	CG	TYR	C	193	191.123	116.804	23.497	1.00	105.36	CS3
ATOM	35911	CD1	TYR	C	193	191.815	117.920	23.026	1.00	105.36	CS3
ATOM	35912	CE1	TYR	C	193	191.159	119.137	22.804	1.00	105.36	CS3
ATOM	35913	CD2	TYR	C	193	189.762	116.932	23.750	1.00	105.36	CS3
ATOM	35914	CE2	TYR	C	193	189.097	118.138	23.535	1.00	105.36	CS3
ATOM	35915	CZ	TYR	C	193	189.797	119.238	23.059	1.00	105.36	CS3
ATOM	35916	OH	TYR	C	193	189.133	120.427	22.826	1.00	105.36	CS3
ATOM	35917	C	TYR	C	193	194.209	116.016	24.218	1.00	107.14	CS3
ATOM	35918	O	TYR	C	193	195.020	115.307	23.642	1.00	107.14	CS3
ATOM	35919	N	GLY	C	194	194.433	117.307	24.422	1.00	96.47	CS3
ATOM	35920	CA	GLY	C	194	195.683	117.872	23.950	1.00	96.47	CS3
ATOM	35921	C	GLY	C	194	195.744	119.368	23.704	1.00	96.47	CS3
ATOM	35922	O	GLY	C	194	194.739	120.023	23.411	1.00	96.47	CS3
ATOM	35923	N	VAL	C	195	196.958	119.895	23.825	1.00	90.72	CS3
ATOM	35924	CA	VAL	C	195	197.260	121.308	23.623	1.00	90.72	CS3
ATOM	35925	CB	VAL	C	195	198.782	121.502	23.471	1.00	103.71	CS3
ATOM	35926	CG1	VAL	C	195	199.101	122.943	23.123	1.00	103.71	CS3
ATOM	35927	CG2	VAL	C	195	199.482	121.086	24.744	1.00	103.71	CS3
ATOM	35928	C	VAL	C	195	196.598	121.886	22.379	1.00	90.72	CS3
ATOM	35929	O	VAL	C	195	196.414	121.180	21.391	1.00	90.72	CS3
ATOM	35930	N	LEU	C	196	196.244	123.168	22.436	1.00	62.49	CS3
ATOM	35931	CA	LEU	C	196	195.646	123.862	21.298	1.00	62.49	CS3
ATOM	35932	CB	LEU	C	196	194.120	123.839	21.327	1.00	77.07	CS3
ATOM	35933	CG	LEU	C	196	193.248	122.632	21.655	1.00	77.07	CS3
ATOM	35934	CD1	LEU	C	196	191.885	122.925	21.031	1.00	77.07	CS3
ATOM	35935	CD2	LEU	C	196	193.797	121.328	21.112	1.00	77.07	CS3
ATOM	35936	C	LEU	C	196	196.070	125.321	21.339	1.00	62.49	CS3
ATOM	35937	O	LEU	C	196	195.690	126.053	22.248	1.00	62.49	CS3
ATOM	35938	N	GLY	C	197	196.845	125.759	20.358	1.00	83.70	CS3
ATOM	35939	CA	GLY	C	197	197.263	127.147	20.352	1.00	83.70	CS3
ATOM	35940	C	GLY	C	197	196.119	128.082	19.998	1.00	83.70	CS3
ATOM	35941	O	GLY	C	197	195.176	127.682	19.307	1.00	83.70	CS3
ATOM	35942	N	VAL	C	198	196.185	129.324	20.478	1.00	59.36	CS3
ATOM	35943	CA	VAL	C	198	195.147	130.295	20.166	1.00	59.36	CS3
ATOM	35944	CB	VAL	C	198	194.149	130.429	21.314	1.00	69.98	CS3
ATOM	35945	CG1	VAL	C	198	193.041	131.385	20.905	1.00	69.98	CS3
ATOM	35946	CG2	VAL	C	198	193.566	129.064	21.661	1.00	69.98	CS3
ATOM	35947	C	VAL	C	198	195.736	131.663	19.838	1.00	59.36	CS3
ATOM	35948	O	VAL	C	198	196.293	132.345	20.698	1.00	59.36	CS3
ATOM	35949	N	LYS	C	199	195.604	132.057	18.578	1.00	68.91	CS3

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ATOM	35950	CA	LYS	C	199	196.142	133.325	18.124	1.00	68.91	CS3
ATOM	35951	CB	LYS	C	199	196.942	133.123	16.831	1.00	92.84	CS3
ATOM	35952	CG	LYS	C	199	198.267	132.399	17.035	1.00	92.84	CS3
ATOM	35953	CD	LYS	C	199	198.902	131.949	15.724	1.00	92.84	CS3
ATOM	35954	CE	LYS	C	199	200.095	131.044	16.012	1.00	92.84	CS3
ATOM	35955	NZ	LYS	C	199	200.503	130.223	14.849	1.00	92.84	CS3
ATOM	35956	C	LYS	C	199	195.051	134.354	17.906	1.00	68.91	CS3
ATOM	35957	O	LYS	C	199	193.979	134.037	17.391	1.00	68.91	CS3
ATOM	35958	N	ALA	C	200	195.337	135.590	18.303	1.00	67.28	CS3
ATOM	35959	CA	ALA	C	200	194.390	136.685	18.161	1.00	67.28	CS3
ATOM	35960	CB	ALA	C	200	193.691	136.951	19.483	1.00	141.75	CS3
ATOM	35961	C	ALA	C	200	195.149	137.918	17.715	1.00	67.28	CS3
ATOM	35962	O	ALA	C	200	196.170	138.283	18.305	1.00	67.28	CS3
ATOM	35963	N	TYR	C	201	194.644	138.547	16.661	1.00	66.45	CS3
ATOM	35964	CA	TYR	C	201	195.252	139.745	16.101	1.00	66.45	CS3
ATOM	35965	CB	TYR	C	201	195.611	139.548	14.620	1.00	122.18	CS3
ATOM	35966	CG	TYR	C	201	196.615	138.465	14.324	1.00	122.18	CS3
ATOM	35967	CD1	TYR	C	201	196.357	137.140	14.664	1.00	122.18	CS3
ATOM	35968	CE1	TYR	C	201	197.266	136.136	14.376	1.00	122.18	CS3
ATOM	35969	CD2	TYR	C	201	197.819	138.764	13.683	1.00	122.18	CS3
ATOM	35970	CE2	TYR	C	201	198.740	137.768	13.388	1.00	122.18	CS3
ATOM	35971	CZ	TYR	C	201	198.456	136.453	13.738	1.00	122.18	CS3
ATOM	35972	OH	TYR	C	201	199.346	135.442	13.443	1.00	78.43	CS3
ATOM	35973	C	TYR	C	201	194.252	140.883	16.182	1.00	66.45	CS3
ATOM	35974	O	TYR	C	201	193.097	140.740	15.766	1.00	66.45	CS3
ATOM	35975	N	ILE	C	202	194.694	142.021	16.693	1.00	81.36	CS3
ATOM	35976	CA	ILE	C	202	193.809	143.163	16.784	1.00	81.36	CS3
ATOM	35977	CB	ILE	C	202	193.481	143.508	18.256	1.00	81.01	CS3
ATOM	35978	CG2	ILE	C	202	192.488	144.663	18.302	1.00	81.01	CS3
ATOM	35979	CG1	ILE	C	202	192.898	142.272	18.959	1.00	81.01	CS3
ATOM	35980	CD1	ILE	C	202	192.553	142.465	20.421	1.00	81.01	CS3
ATOM	35981	C	ILE	C	202	194.466	144.348	16.104	1.00	81.36	CS3
ATOM	35982	O	ILE	C	202	195.541	144.797	16.492	1.00	81.36	CS3
ATOM	35983	N	PHE	C	203	193.826	144.835	15.058	1.00	79.48	CS3
ATOM	35984	CA	PHE	C	203	194.348	145.973	14.341	1.00	79.48	CS3
ATOM	35985	CB	PHE	C	203	193.915	145.904	12.880	1.00	59.56	CS3
ATOM	35986	CG	PHE	C	203	194.438	147.026	12.040	1.00	59.56	CS3
ATOM	35987	CD1	PHE	C	203	195.780	147.396	12.105	1.00	59.56	CS3
ATOM	35988	CD2	PHE	C	203	193.610	147.666	11.120	1.00	59.56	CS3
ATOM	35989	CE1	PHE	C	203	196.293	148.385	11.254	1.00	59.56	CS3
ATOM	35990	CE2	PHE	C	203	194.112	148.659	10.259	1.00	59.56	CS3
ATOM	35991	CZ	PHE	C	203	195.456	149.019	10.324	1.00	59.56	CS3
ATOM	35992	C	PHE	C	203	193.757	147.196	15.013	1.00	79.48	CS3
ATOM	35993	O	PHE	C	203	192.577	147.195	15.360	1.00	79.48	CS3
ATOM	35994	N	LEU	C	204	194.577	148.226	15.209	1.00	96.40	CS3
ATOM	35995	CA	LEU	C	204	194.144	149.476	15.845	1.00	96.40	CS3
ATOM	35996	CB	LEU	C	204	194.688	149.570	17.277	1.00	82.09	CS3
ATOM	35997	CG	LEU	C	204	194.803	148.269	18.089	1.00	82.09	CS3
ATOM	35998	CD1	LEU	C	204	195.869	148.439	19.163	1.00	82.09	CS3
ATOM	35999	CD2	LEU	C	204	193.456	147.883	18.703	1.00	82.09	CS3
ATOM	36000	C	LEU	C	204	194.722	150.624	15.028	1.00	96.40	CS3
ATOM	36001	O	LEU	C	204	195.866	150.549	14.576	1.00	96.40	CS3
ATOM	36002	N	GLY	C	205	193.944	151.683	14.842	1.00	134.54	CS3
ATOM	36003	CA	GLY	C	205	194.431	152.816	14.072	1.00	134.54	CS3
ATOM	36004	C	GLY	C	205	195.375	152.400	12.955	1.00	134.54	CS3
ATOM	36005	O	GLY	C	205	195.045	151.533	12.150	1.00	134.54	CS3
ATOM	36006	N	GLU	C	206	196.554	153.011	12.904	1.00	142.32	CS3
ATOM	36007	CA	GLU	C	206	197.523	152.670	11.878	1.00	142.32	CS3
ATOM	36008	CB	GLU	C	206	196.907	152.838	10.487	1.00	125.44	CS3
ATOM	36009	CG	GLU	C	206	197.733	152.219	9.368	1.00	125.44	CS3
ATOM	36010	CD	GLU	C	206	197.082	152.363	8.001	1.00	125.44	CS3
ATOM	36011	OE1	GLU	C	206	197.702	151.956	6.993	1.00	125.44	CS3
ATOM	36012	OE2	GLU	C	206	195.947	152.879	7.934	1.00	125.44	CS3
ATOM	36013	C	GLU	C	206	198.807	153.487	11.976	1.00	142.32	CS3
ATOM	36014	O	GLU	C	206	199.780	153.023	12.566	1.00	142.32	CS3
ATOM	36015	N	VAL	C	207	198.805	154.697	11.414	1.00	135.08	CS3
ATOM	36016	CA	VAL	C	207	199.990	155.571	11.400	1.00	135.08	CS3
ATOM	36017	CB	VAL	C	207	199.564	157.071	11.182	1.00	88.85	CS3
ATOM	36018	CG1	VAL	C	207	200.326	158.012	12.115	1.00	88.85	CS3
ATOM	36019	CG2	VAL	C	207	199.843	157.472	9.742	1.00	88.85	CS3
ATOM	36020	C	VAL	C	207	200.954	155.460	12.595	1.00	135.08	CS3
ATOM	36021	O	VAL	C	207	200.545	154.999	13.682	1.00	135.08	CS3
ATOM	36022	OXT	VAL	C	207	202.133	155.841	12.423	1.00	88.85	CS3
TER	36022		VAL	C	207						CS3
ATOM	36023	C	GLY	D	2	149.760	96.236	32.373	1.00	96.42	DS4
ATOM	36024	O	GLY	D	2	150.892	96.588	32.037	1.00	96.42	DS4
ATOM	36025	N	GLY	D	2	148.249	94.404	31.572	1.00	96.42	DS4

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ATOM	36026	CA	GLY	D	2	149.408	94.761	32.432	1.00	96.42	DS4
ATOM	36027	N	ARG	D	3	148.795	97.093	32.709	1.00	106.35	DS4
ATOM	36028	CA	ARG	D	3	148.987	98.540	32.691	1.00	106.35	DS4
ATOM	36029	CB	ARG	D	3	147.746	99.242	33.244	1.00	198.62	DS4
ATOM	36030	CG	ARG	D	3	146.588	99.220	32.268	1.00	198.62	DS4
ATOM	36031	CD	ARG	D	3	147.003	99.871	30.955	1.00	198.62	DS4
ATOM	36032	NE	ARG	D	3	146.380	99.242	29.794	1.00	198.62	DS4
ATOM	36033	CZ	ARG	D	3	145.095	99.345	29.473	1.00	198.62	DS4
ATOM	36034	NH1	ARG	D	3	144.266	100.063	30.221	1.00	198.62	DS4
ATOM	36035	NH2	ARG	D	3	144.639	98.721	28.398	1.00	198.62	DS4
ATOM	36036	C	ARG	D	3	150.226	99.007	33.439	1.00	106.35	DS4
ATOM	36037	O	ARG	D	3	150.290	98.948	34.663	1.00	106.35	DS4
ATOM	36038	N	TYR	D	4	151.198	99.487	32.673	1.00	153.09	DS4
ATOM	36039	CA	TYR	D	4	152.479	99.967	33.178	1.00	153.09	DS4
ATOM	36040	CB	TYR	D	4	152.503	101.488	33.285	1.00	74.64	DS4
ATOM	36041	CG	TYR	D	4	153.891	102.000	33.639	1.00	74.64	DS4
ATOM	36042	CD1	TYR	D	4	155.025	101.259	33.307	1.00	74.64	DS4
ATOM	36043	CE1	TYR	D	4	156.287	101.722	33.588	1.00	74.64	DS4
ATOM	36044	CD2	TYR	D	4	154.075	103.231	34.272	1.00	74.64	DS4
ATOM	36045	CE2	TYR	D	4	155.350	103.703	34.555	1.00	74.64	DS4
ATOM	36046	CZ	TYR	D	4	156.444	102.938	34.208	1.00	74.64	DS4
ATOM	36047	OH	TYR	D	4	157.712	103.378	34.472	1.00	74.64	DS4
ATOM	36048	C	TYR	D	4	152.985	99.407	34.492	1.00	153.09	DS4
ATOM	36049	O	TYR	D	4	153.473	98.277	34.547	1.00	153.09	DS4
ATOM	36050	N	ILE	D	5	152.892	100.223	35.541	1.00	132.24	DS4
ATOM	36051	CA	ILE	D	5	153.369	99.830	36.854	1.00	132.24	DS4
ATOM	36052	CB	ILE	D	5	152.935	98.394	37.176	1.00	75.94	DS4
ATOM	36053	CG2	ILE	D	5	153.821	97.785	38.243	1.00	75.94	DS4
ATOM	36054	CG1	ILE	D	5	151.458	98.413	37.563	1.00	75.94	DS4
ATOM	36055	CD1	ILE	D	5	150.802	97.060	37.557	1.00	75.94	DS4
ATOM	36056	C	ILE	D	5	154.885	99.936	36.853	1.00	132.24	DS4
ATOM	36057	O	ILE	D	5	155.580	99.071	36.317	1.00	132.24	DS4
ATOM	36058	N	GLY	D	6	155.383	101.015	37.448	1.00	64.79	DS4
ATOM	36059	CA	GLY	D	6	156.815	101.256	37.514	1.00	64.79	DS4
ATOM	36060	C	GLY	D	6	157.015	102.717	37.835	1.00	64.79	DS4
ATOM	36061	O	GLY	D	6	156.036	103.471	37.815	1.00	64.79	DS4
ATOM	36062	N	PRO	D	7	158.247	103.158	38.142	1.00	86.62	DS4
ATOM	36063	CD	PRO	D	7	159.555	102.527	37.929	1.00	69.50	DS4
ATOM	36064	CA	PRO	D	7	158.407	104.582	38.448	1.00	86.62	DS4
ATOM	36065	CB	PRO	D	7	159.910	104.826	38.254	1.00	69.50	DS4
ATOM	36066	CG	PRO	D	7	160.358	103.688	37.397	1.00	69.50	DS4
ATOM	36067	C	PRO	D	7	157.531	105.419	37.525	1.00	86.62	DS4
ATOM	36068	O	PRO	D	7	157.568	105.272	36.306	1.00	86.62	DS4
ATOM	36069	N	VAL	D	8	156.713	106.273	38.120	1.00	72.50	DS4
ATOM	36070	CA	VAL	D	8	155.810	107.103	37.357	1.00	72.50	DS4
ATOM	36071	CB	VAL	D	8	154.419	107.042	37.972	1.00	73.82	DS4
ATOM	36072	CG1	VAL	D	8	153.465	107.915	37.207	1.00	73.82	DS4
ATOM	36073	CG2	VAL	D	8	153.947	105.593	37.955	1.00	73.82	DS4
ATOM	36074	C	VAL	D	8	156.315	108.527	37.271	1.00	72.50	DS4
ATOM	36075	O	VAL	D	8	156.503	109.033	36.175	1.00	72.50	DS4
ATOM	36076	N	CYS	D	9	156.530	109.185	38.406	1.00	156.52	DS4
ATOM	36077	CA	CYS	D	9	157.056	110.541	38.362	1.00	156.52	DS4
ATOM	36078	CB	CYS	D	9	157.058	111.169	39.779	1.00	56.44	DS4
ATOM	36079	SG	CYS	D	9	156.276	112.852	39.924	1.00	56.44	DS4
ATOM	36080	C	CYS	D	9	158.479	110.345	37.785	1.00	156.52	DS4
ATOM	36081	O	CYS	D	9	159.467	110.245	38.517	1.00	156.52	DS4
ATOM	36082	N	ARG	D	10	158.530	110.236	36.454	1.00	88.74	DS4
ATOM	36083	CA	ARG	D	10	159.748	110.034	35.646	1.00	88.74	DS4
ATOM	36084	CB	ARG	D	10	160.282	108.590	35.773	1.00	74.93	DS4
ATOM	36085	CG	ARG	D	10	160.053	107.704	34.519	1.00	74.93	DS4
ATOM	36086	CD	ARG	D	10	160.366	106.200	34.737	1.00	74.93	DS4
ATOM	36087	NE	ARG	D	10	161.794	105.880	34.729	1.00	74.93	DS4
ATOM	36088	CZ	ARG	D	10	162.604	106.054	33.683	1.00	74.93	DS4
ATOM	36089	NH1	ARG	D	10	162.141	106.550	32.537	1.00	74.93	DS4
ATOM	36090	NH2	ARG	D	10	163.883	105.723	33.779	1.00	74.93	DS4
ATOM	36091	C	ARG	D	10	159.316	110.282	34.196	1.00	88.74	DS4
ATOM	36092	O	ARG	D	10	160.093	110.742	33.360	1.00	88.74	DS4
ATOM	36093	N	LEU	D	11	158.068	109.927	33.916	1.00	78.49	DS4
ATOM	36094	CA	LEU	D	11	157.458	110.125	32.611	1.00	78.49	DS4
ATOM	36095	CB	LEU	D	11	156.227	109.232	32.461	1.00	70.07	DS4
ATOM	36096	CG	LEU	D	11	156.385	107.853	33.122	1.00	70.07	DS4
ATOM	36097	CD1	LEU	D	11	155.027	107.184	33.273	1.00	70.07	DS4
ATOM	36098	CD2	LEU	D	11	157.348	106.992	32.315	1.00	70.07	DS4
ATOM	36099	C	LEU	D	11	157.034	111.577	32.743	1.00	78.49	DS4
ATOM	36100	O	LEU	D	11	157.077	112.344	31.782	1.00	78.49	DS4
ATOM	36101	N	CYS	D	12	156.613	111.928	33.961	1.00	73.37	DS4
ATOM	36102	CA	CYS	D	12	156.218	113.294	34.321	1.00	73.37	DS4

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ATOM	36103	CB	CYS	D	12	156.239	113.473	35.883	1.00	69.84	DS4
ATOM	36104	SG	CYS	D	12	154.706	113.751	36.962	1.00	69.84	DS4
ATOM	36105	C	CYS	D	12	157.396	114.080	33.709	1.00	73.37	DS4
ATOM	36106	O	CYS	D	12	157.215	115.008	32.923	1.00	73.37	DS4
ATOM	36107	N	ARG	D	13	158.603	113.631	34.063	1.00	66.39	DS4
ATOM	36108	CA	ARG	D	13	159.872	114.232	33.651	1.00	66.39	DS4
ATOM	36109	CB	ARG	D	13	161.019	113.640	34.473	1.00	77.70	DS4
ATOM	36110	CG	ARG	D	13	160.993	114.013	35.934	1.00	77.70	DS4
ATOM	36111	CD	ARG	D	13	162.399	114.232	36.450	1.00	77.70	DS4
ATOM	36112	NE	ARG	D	13	163.084	112.984	36.756	1.00	77.70	DS4
ATOM	36113	CZ	ARG	D	13	164.381	112.784	36.542	1.00	77.70	DS4
ATOM	36114	NH1	ARG	D	13	165.123	113.757	36.011	1.00	77.70	DS4
ATOM	36115	NH2	ARG	D	13	164.941	111.621	36.869	1.00	77.70	DS4
ATOM	36116	C	ARG	D	13	160.253	114.129	32.189	1.00	66.39	DS4
ATOM	36117	O	ARG	D	13	160.737	115.102	31.601	1.00	66.39	DS4
ATOM	36118	N	ARG	D	14	160.084	112.936	31.624	1.00	81.18	DS4
ATOM	36119	CA	ARG	D	14	160.411	112.686	30.221	1.00	81.18	DS4
ATOM	36120	CB	ARG	D	14	160.232	111.201	29.881	1.00	94.14	DS4
ATOM	36121	CG	ARG	D	14	160.132	110.893	28.380	1.00	94.14	DS4
ATOM	36122	CD	ARG	D	14	161.346	111.395	27.616	1.00	94.14	DS4
ATOM	36123	NE	ARG	D	14	162.584	110.831	28.143	1.00	94.14	DS4
ATOM	36124	CZ	ARG	D	14	163.797	111.188	27.738	1.00	94.14	DS4
ATOM	36125	NH1	ARG	D	14	163.942	112.114	26.795	1.00	94.14	DS4
ATOM	36126	NH2	ARG	D	14	164.865	110.617	28.276	1.00	94.14	DS4
ATOM	36127	C	ARG	D	14	159.535	113.516	29.300	1.00	81.18	DS4
ATOM	36128	O	ARG	D	14	160.022	114.105	28.334	1.00	81.18	DS4
ATOM	36129	N	GLU	D	15	158.238	113.550	29.594	1.00	86.98	DS4
ATOM	36130	CA	GLU	D	15	157.322	114.315	28.776	1.00	86.98	DS4
ATOM	36131	CB	GLU	D	15	155.876	113.904	29.057	1.00	92.98	DS4
ATOM	36132	CG	GLU	D	15	155.245	113.136	27.897	1.00	92.98	DS4
ATOM	36133	CD	GLU	D	15	156.082	111.935	27.452	1.00	92.98	DS4
ATOM	36134	OE1	GLU	D	15	156.137	110.921	28.183	1.00	92.98	DS4
ATOM	36135	OE2	GLU	D	15	156.693	112.010	26.365	1.00	92.98	DS4
ATOM	36136	C	GLU	D	15	157.526	115.797	29.021	1.00	86.98	DS4
ATOM	36137	O	GLU	D	15	156.986	116.624	28.293	1.00	86.98	DS4
ATOM	36138	N	GLY	D	16	158.327	116.125	30.033	1.00	94.81	DS4
ATOM	36139	CA	GLY	D	16	158.608	117.515	30.351	1.00	94.81	DS4
ATOM	36140	C	GLY	D	16	157.438	118.205	31.017	1.00	94.81	DS4
ATOM	36141	O	GLY	D	16	157.591	118.888	32.021	1.00	94.81	DS4
ATOM	36142	N	VAL	D	17	156.258	118.039	30.439	1.00	92.01	DS4
ATOM	36143	CA	VAL	D	17	155.053	118.628	30.993	1.00	92.01	DS4
ATOM	36144	CB	VAL	D	17	153.829	118.359	30.068	1.00	115.70	DS4
ATOM	36145	CG1	VAL	D	17	152.525	118.731	30.769	1.00	115.70	DS4
ATOM	36146	CG2	VAL	D	17	153.972	119.167	28.782	1.00	115.70	DS4
ATOM	36147	C	VAL	D	17	154.844	117.960	32.346	1.00	92.01	DS4
ATOM	36148	O	VAL	D	17	155.490	116.954	32.657	1.00	92.01	DS4
ATOM	36149	N	LYS	D	18	153.955	118.524	33.153	1.00	88.56	DS4
ATOM	36150	CA	LYS	D	18	153.670	117.970	34.466	1.00	88.56	DS4
ATOM	36151	CB	LYS	D	18	153.335	119.108	35.433	1.00	118.74	DS4
ATOM	36152	CG	LYS	D	18	153.512	118.801	36.923	1.00	118.74	DS4
ATOM	36153	CD	LYS	D	18	153.139	120.043	37.731	1.00	118.74	DS4
ATOM	36154	CE	LYS	D	18	153.350	119.890	39.224	1.00	118.74	DS4
ATOM	36155	NZ	LYS	D	18	152.827	121.097	39.939	1.00	118.74	DS4
ATOM	36156	C	LYS	D	18	152.485	117.021	34.321	1.00	88.56	DS4
ATOM	36157	O	LYS	D	18	151.508	117.337	33.649	1.00	88.56	DS4
ATOM	36158	N	LEU	D	19	152.580	115.848	34.929	1.00	159.98	DS4
ATOM	36159	CA	LEU	D	19	151.483	114.898	34.863	1.00	159.98	DS4
ATOM	36160	CB	LEU	D	19	151.897	113.639	34.121	1.00	84.67	DS4
ATOM	36161	CG	LEU	D	19	152.294	113.858	32.672	1.00	84.67	DS4
ATOM	36162	CD1	LEU	D	19	152.931	112.590	32.123	1.00	84.67	DS4
ATOM	36163	CD2	LEU	D	19	151.066	114.259	31.881	1.00	84.67	DS4
ATOM	36164	C	LEU	D	19	151.052	114.536	36.265	1.00	159.98	DS4
ATOM	36165	O	LEU	D	19	151.868	114.475	37.196	1.00	159.98	DS4
ATOM	36166	N	TYR	D	20	149.756	114.301	36.409	1.00	115.93	DS4
ATOM	36167	CA	TYR	D	20	149.190	113.950	37.694	1.00	115.93	DS4
ATOM	36168	CB	TYR	D	20	147.930	114.783	37.926	1.00	95.73	DS4
ATOM	36169	CG	TYR	D	20	148.205	116.271	37.930	1.00	95.73	DS4
ATOM	36170	CD1	TYR	D	20	147.189	117.195	37.700	1.00	95.73	DS4
ATOM	36171	CE1	TYR	D	20	147.449	118.571	37.710	1.00	95.73	DS4
ATOM	36172	CD2	TYR	D	20	149.487	116.757	38.172	1.00	95.73	DS4
ATOM	36173	CE2	TYR	D	20	149.757	118.123	38.185	1.00	95.73	DS4
ATOM	36174	CZ	TYR	D	20	148.739	119.023	37.953	1.00	95.73	DS4
ATOM	36175	OH	TYR	D	20	149.020	120.371	37.962	1.00	95.73	DS4
ATOM	36176	C	TYR	D	20	148.889	112.458	37.708	1.00	115.93	DS4
ATOM	36177	O	TYR	D	20	147.741	112.034	37.579	1.00	115.93	DS4
ATOM	36178	N	LEU	D	21	149.942	111.663	37.856	1.00	97.74	DS4
ATOM	36179	CA	LEU	D	21	149.809	110.215	37.878	1.00	97.74	DS4

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ATOM	36180	CB	LEU	D	21	150.868	109.591	36.966	1.00	83.72	DS4
ATOM	36181	CG	LEU	D	21	150.830	109.964	35.474	1.00	83.72	DS4
ATOM	36182	CD1	LEU	D	21	152.158	109.612	34.821	1.00	83.72	DS4
ATOM	36183	CD2	LEU	D	21	149.679	109.238	34.775	1.00	83.72	DS4
ATOM	36184	C	LEU	D	21	149.984	109.717	39.303	1.00	97.74	DS4
ATOM	36185	O	LEU	D	21	150.333	108.550	39.530	1.00	97.74	DS4
ATOM	36186	N	LYS	D	22	149.729	110.615	40.255	1.00	113.49	DS4
ATOM	36187	CA	LYS	D	22	149.875	110.316	41.673	1.00	113.49	DS4
ATOM	36188	CB	LYS	D	22	151.293	110.675	42.121	1.00	71.67	DS4
ATOM	36189	CG	LYS	D	22	152.250	109.489	42.261	1.00	71.67	DS4
ATOM	36190	CD	LYS	D	22	153.709	109.954	42.288	1.00	71.67	DS4
ATOM	36191	CE	LYS	D	22	154.641	108.916	42.921	1.00	71.67	DS4
ATOM	36192	NZ	LYS	D	22	154.603	108.957	44.430	1.00	71.67	DS4
ATOM	36193	C	LYS	D	22	148.865	111.035	42.568	1.00	113.49	DS4
ATOM	36194	O	LYS	D	22	148.904	110.897	43.793	1.00	113.49	DS4
ATOM	36195	N	GLY	D	23	147.960	111.798	41.968	1.00	163.96	DS4
ATOM	36196	CA	GLY	D	23	146.979	112.504	42.771	1.00	163.96	DS4
ATOM	36197	C	GLY	D	23	147.646	113.565	43.624	1.00	163.96	DS4
ATOM	36198	O	GLY	D	23	148.143	114.553	43.084	1.00	163.96	DS4
ATOM	36199	N	GLU	D	24	147.667	113.373	44.944	1.00	119.25	DS4
ATOM	36200	CA	GLU	D	24	148.297	114.350	45.829	1.00	119.25	DS4
ATOM	36201	CB	GLU	D	24	147.998	114.047	47.294	1.00	160.08	DS4
ATOM	36202	CG	GLU	D	24	148.537	115.122	48.222	1.00	160.08	DS4
ATOM	36203	CD	GLU	D	24	148.260	114.846	49.681	1.00	160.08	DS4
ATOM	36204	OE1	GLU	D	24	147.069	114.818	50.060	1.00	160.08	DS4
ATOM	36205	OE2	GLU	D	24	149.234	114.661	50.447	1.00	160.08	DS4
ATOM	36206	C	GLU	D	24	149.798	114.314	45.602	1.00	119.25	DS4
ATOM	36207	O	GLU	D	24	150.272	113.509	44.810	1.00	119.25	DS4
ATOM	36208	N	ARG	D	25	150.542	115.174	46.294	1.00	95.15	DS4
ATOM	36209	CA	ARG	D	25	152.000	115.246	46.148	1.00	95.15	DS4
ATOM	36210	CB	ARG	D	25	152.651	113.853	46.161	1.00	76.61	DS4
ATOM	36211	CG	ARG	D	25	154.198	113.866	46.080	1.00	76.61	DS4
ATOM	36212	CD	ARG	D	25	154.766	112.478	45.720	1.00	76.61	DS4
ATOM	36213	NE	ARG	D	25	155.898	112.056	46.553	1.00	76.61	DS4
ATOM	36214	CZ	ARG	D	25	157.110	112.604	46.541	1.00	76.61	DS4
ATOM	36215	NH1	ARG	D	25	157.378	113.612	45.730	1.00	76.61	DS4
ATOM	36216	NH2	ARG	D	25	158.054	112.146	47.357	1.00	76.61	DS4
ATOM	36217	C	ARG	D	25	152.323	115.922	44.829	1.00	95.15	DS4
ATOM	36218	O	ARG	D	25	153.172	116.812	44.769	1.00	95.15	DS4
ATOM	36219	N	CYS	D	26	151.652	115.487	43.766	1.00	158.60	DS4
ATOM	36220	CA	CYS	D	26	151.863	116.077	42.455	1.00	158.60	DS4
ATOM	36221	CB	CYS	D	26	151.045	115.323	41.384	1.00	62.24	DS4
ATOM	36222	SG	CYS	D	26	152.006	114.096	40.406	1.00	62.24	DS4
ATOM	36223	C	CYS	D	26	151.449	117.551	42.565	1.00	158.60	DS4
ATOM	36224	O	CYS	D	26	151.463	118.291	41.583	1.00	158.60	DS4
ATOM	36225	N	TYR	D	27	151.086	117.960	43.783	1.00	89.78	DS4
ATOM	36226	CA	TYR	D	27	150.699	119.340	44.086	1.00	89.78	DS4
ATOM	36227	CB	TYR	D	27	149.276	119.396	44.658	1.00	94.26	DS4
ATOM	36228	CG	TYR	D	27	148.220	119.026	43.642	1.00	94.26	DS4
ATOM	36229	CD1	TYR	D	27	147.937	117.688	43.360	1.00	94.26	DS4
ATOM	36230	CE1	TYR	D	27	147.041	117.335	42.349	1.00	94.26	DS4
ATOM	36231	CD2	TYR	D	27	147.572	120.012	42.889	1.00	94.26	DS4
ATOM	36232	CE2	TYR	D	27	146.674	119.674	41.872	1.00	94.26	DS4
ATOM	36233	CZ	TYR	D	27	146.417	118.331	41.607	1.00	94.26	DS4
ATOM	36234	OH	TYR	D	27	145.553	117.972	40.595	1.00	94.26	DS4
ATOM	36235	C	TYR	D	27	151.693	119.915	45.094	1.00	89.78	DS4
ATOM	36236	O	TYR	D	27	152.000	121.110	45.076	1.00	89.78	DS4
ATOM	36237	N	SER	D	28	152.198	119.044	45.964	1.00	102.66	DS4
ATOM	36238	CA	SER	D	28	153.175	119.432	46.975	1.00	102.66	DS4
ATOM	36239	CB	SER	D	28	153.098	118.495	48.189	1.00	188.61	DS4
ATOM	36240	OG	SER	D	28	153.619	117.209	47.892	1.00	188.61	DS4
ATOM	36241	C	SER	D	28	154.581	119.376	46.378	1.00	102.66	DS4
ATOM	36242	O	SER	D	28	155.049	118.305	45.984	1.00	102.66	DS4
ATOM	36243	N	PRO	D	29	155.274	120.531	46.329	1.00	97.10	DS4
ATOM	36244	CD	PRO	D	29	154.880	121.737	47.082	1.00	117.10	DS4
ATOM	36245	CA	PRO	D	29	156.630	120.693	45.794	1.00	97.10	DS4
ATOM	36246	CB	PRO	D	29	157.197	121.806	46.658	1.00	117.10	DS4
ATOM	36247	CG	PRO	D	29	156.020	122.700	46.795	1.00	117.10	DS4
ATOM	36248	C	PRO	D	29	157.472	119.429	45.849	1.00	97.10	DS4
ATOM	36249	O	PRO	D	29	158.380	119.313	46.666	1.00	97.10	DS4
ATOM	36250	N	LYS	D	30	157.168	118.489	44.959	1.00	151.80	DS4
ATOM	36251	CA	LYS	D	30	157.888	117.232	44.904	1.00	151.80	DS4
ATOM	36252	CB	LYS	D	30	157.499	116.358	46.101	1.00	90.72	DS4
ATOM	36253	CG	LYS	D	30	158.104	116.772	47.431	1.00	90.72	DS4
ATOM	36254	CD	LYS	D	30	157.545	115.941	48.586	1.00	90.72	DS4
ATOM	36255	CE	LYS	D	30	158.133	116.356	49.947	1.00	90.72	DS4
ATOM	36256	NZ	LYS	D	30	157.439	115.739	51.127	1.00	90.72	DS4

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ATOM	36257	C	LYS	D	30	157.686	116.437	43.610	1.00151.80	DS4
ATOM	36258	O	LYS	D	30	158.402	115.466	43.394	1.00151.80	DS4
ATOM	36259	N	CYS	D	31	156.741	116.831	42.748	1.00127.46	DS4
ATOM	36260	CA	CYS	D	31	156.499	116.084	41.499	1.00127.46	DS4
ATOM	36261	CB	CYS	D	31	155.300	116.643	40.722	1.00 49.29	DS4
ATOM	36262	SG	CYS	D	31	154.766	115.638	39.293	1.00 49.29	DS4
ATOM	36263	C	CYS	D	31	157.719	116.096	40.592	1.00127.46	DS4
ATOM	36264	O	CYS	D	31	157.613	115.779	39.404	1.00127.46	DS4
ATOM	36265	N	ALA	D	32	158.862	116.467	41.177	1.00109.48	DS4
ATOM	36266	CA	ALA	D	32	160.168	116.534	40.514	1.00109.48	DS4
ATOM	36267	CB	ALA	D	32	160.613	115.150	40.057	1.00 87.30	DS4
ATOM	36268	C	ALA	D	32	160.240	117.510	39.358	1.00109.48	DS4
ATOM	36269	O	ALA	D	32	161.323	117.993	39.033	1.00109.48	DS4
ATOM	36270	N	MET	D	33	159.104	117.797	38.724	1.00129.55	DS4
ATOM	36271	CA	MET	D	33	159.105	118.767	37.633	1.00129.55	DS4
ATOM	36272	CB	MET	D	33	157.776	118.775	36.875	1.00 96.19	DS4
ATOM	36273	CG	MET	D	33	157.628	117.625	35.874	1.00 96.19	DS4
ATOM	36274	SD	MET	D	33	159.127	117.252	34.897	1.00 96.19	DS4
ATOM	36275	CE	MET	D	33	159.301	118.746	33.915	1.00 96.19	DS4
ATOM	36276	C	MET	D	33	159.341	120.092	38.334	1.00129.55	DS4
ATOM	36277	O	MET	D	33	159.296	121.178	37.739	1.00129.55	DS4
ATOM	36278	N	GLU	D	34	159.579	119.948	39.633	1.00101.24	DS4
ATOM	36279	CA	GLU	D	34	159.895	121.032	40.529	1.00101.24	DS4
ATOM	36280	CB	GLU	D	34	159.110	120.884	41.828	1.00 90.71	DS4
ATOM	36281	CG	GLU	D	34	158.235	122.076	42.172	1.00 90.71	DS4
ATOM	36282	CD	GLU	D	34	157.031	122.210	41.254	1.00 90.71	DS4
ATOM	36283	OE1	GLU	D	34	155.888	122.103	41.749	1.00 90.71	DS4
ATOM	36284	OE2	GLU	D	34	157.222	122.423	40.037	1.00 90.71	DS4
ATOM	36285	C	GLU	D	34	161.383	120.784	40.780	1.00101.24	DS4
ATOM	36286	O	GLU	D	34	161.770	119.701	41.238	1.00101.24	DS4
ATOM	36287	N	ARG	D	35	162.214	121.764	40.437	1.00157.86	DS4
ATOM	36288	CA	ARG	D	35	163.662	121.665	40.624	1.00157.86	DS4
ATOM	36289	CB	ARG	D	35	163.999	121.894	42.099	1.00185.48	DS4
ATOM	36290	CG	ARG	D	35	163.508	123.230	42.657	1.00185.48	DS4
ATOM	36291	CD	ARG	D	35	163.842	123.359	44.141	1.00185.48	DS4
ATOM	36292	NE	ARG	D	35	163.402	124.631	44.707	1.00185.48	DS4
ATOM	36293	CZ	ARG	D	35	163.626	125.008	45.963	1.00185.48	DS4
ATOM	36294	NH1	ARG	D	35	164.288	124.209	46.789	1.00185.48	DS4
ATOM	36295	NH2	ARG	D	35	163.189	126.185	46.392	1.00185.48	DS4
ATOM	36296	C	ARG	D	35	164.270	120.335	40.141	1.00157.86	DS4
ATOM	36297	O	ARG	D	35	164.945	119.635	40.900	1.00157.86	DS4
ATOM	36298	N	ARG	D	36	164.026	120.013	38.871	1.00106.44	DS4
ATOM	36299	CA	ARG	D	36	164.518	118.797	38.213	1.00106.44	DS4
ATOM	36300	CB	ARG	D	36	164.491	117.636	39.201	1.00 92.40	DS4
ATOM	36301	CG	ARG	D	36	165.543	116.603	38.957	1.00 92.40	DS4
ATOM	36302	CD	ARG	D	36	165.289	115.394	39.814	1.00 92.40	DS4
ATOM	36303	NE	ARG	D	36	166.463	114.533	39.854	1.00 92.40	DS4
ATOM	36304	CZ	ARG	D	36	166.416	113.224	40.075	1.00 92.40	DS4
ATOM	36305	NH1	ARG	D	36	165.248	112.620	40.272	1.00 92.40	DS4
ATOM	36306	NH2	ARG	D	36	167.539	112.520	40.100	1.00 92.40	DS4
ATOM	36307	C	ARG	D	36	163.649	118.432	36.989	1.00106.44	DS4
ATOM	36308	O	ARG	D	36	163.487	117.254	36.668	1.00106.44	DS4
ATOM	36309	N	PRO	D	37	163.102	119.443	36.282	1.00 92.04	DS4
ATOM	36310	CD	PRO	D	37	163.293	120.875	36.553	1.00108.47	DS4
ATOM	36311	CA	PRO	D	37	162.239	119.285	35.105	1.00 92.04	DS4
ATOM	36312	CB	PRO	D	37	161.825	120.722	34.783	1.00108.47	DS4
ATOM	36313	CG	PRO	D	37	161.990	121.440	36.087	1.00108.47	DS4
ATOM	36314	C	PRO	D	37	162.822	118.603	33.880	1.00 92.04	DS4
ATOM	36315	O	PRO	D	37	162.189	118.585	32.823	1.00 92.04	DS4
ATOM	36316	N	TYR	D	38	164.019	118.053	34.008	1.00 98.15	DS4
ATOM	36317	CA	TYR	D	38	164.641	117.385	32.879	1.00 98.15	DS4
ATOM	36318	CB	TYR	D	38	166.146	117.642	32.890	1.00 91.44	DS4
ATOM	36319	CG	TYR	D	38	166.801	117.368	34.221	1.00 91.44	DS4
ATOM	36320	CD1	TYR	D	38	167.174	116.078	34.584	1.00 91.44	DS4
ATOM	36321	CE1	TYR	D	38	167.782	115.828	35.800	1.00 91.44	DS4
ATOM	36322	CD2	TYR	D	38	167.049	118.402	35.116	1.00 91.44	DS4
ATOM	36323	CE2	TYR	D	38	167.653	118.164	36.332	1.00 91.44	DS4
ATOM	36324	CZ	TYR	D	38	168.022	116.876	36.671	1.00 91.44	DS4
ATOM	36325	OH	TYR	D	38	168.649	116.639	37.877	1.00 91.44	DS4
ATOM	36326	C	TYR	D	38	164.354	115.891	32.901	1.00 98.15	DS4
ATOM	36327	O	TYR	D	38	163.955	115.338	33.930	1.00 98.15	DS4
ATOM	36328	N	PRO	D	39	164.541	115.220	31.755	1.00 69.08	DS4
ATOM	36329	CD	PRO	D	39	164.993	115.786	30.471	1.00 81.56	DS4
ATOM	36330	CA	PRO	D	39	164.304	113.778	31.636	1.00 69.08	DS4
ATOM	36331	CB	PRO	D	39	164.480	113.524	30.147	1.00 81.56	DS4
ATOM	36332	CG	PRO	D	39	165.498	114.570	29.753	1.00 81.56	DS4
ATOM	36333	C	PRO	D	39	165.271	112.965	32.483	1.00 69.08	DS4

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ATOM	36334	O	PRO	D	39	166.355	113.422	32.834	1.00	69.08	DS4
ATOM	36335	N	PRO	D	40	164.881	111.735	32.819	1.00	70.26	DS4
ATOM	36336	CD	PRO	D	40	163.590	111.123	32.456	1.00	73.06	DS4
ATOM	36337	CA	PRO	D	40	165.685	110.824	33.633	1.00	70.26	DS4
ATOM	36338	CB	PRO	D	40	164.680	109.743	34.004	1.00	73.06	DS4
ATOM	36339	CG	PRO	D	40	163.817	109.670	32.779	1.00	73.06	DS4
ATOM	36340	C	PRO	D	40	166.895	110.260	32.899	1.00	70.26	DS4
ATOM	36341	O	PRO	D	40	167.031	110.448	31.700	1.00	70.26	DS4
ATOM	36342	N	GLY	D	41	167.779	109.578	33.624	1.00	83.83	DS4
ATOM	36343	CA	GLY	D	41	168.940	108.979	32.994	1.00	83.83	DS4
ATOM	36344	C	GLY	D	41	170.245	109.758	33.018	1.00	83.83	DS4
ATOM	36345	O	GLY	D	41	170.287	110.950	33.318	1.00	83.83	DS4
ATOM	36346	N	GLN	D	42	171.314	109.049	32.673	1.00	70.18	DS4
ATOM	36347	CA	GLN	D	42	172.670	109.573	32.631	1.00	70.18	DS4
ATOM	36348	CB	GLN	D	42	173.614	108.491	32.099	1.00	105.56	DS4
ATOM	36349	CG	GLN	D	42	175.103	108.814	32.207	1.00	105.56	DS4
ATOM	36350	CD	GLN	D	42	175.982	107.725	31.598	1.00	105.56	DS4
ATOM	36351	OE1	GLN	D	42	176.343	107.790	30.420	1.00	105.56	DS4
ATOM	36352	NE2	GLN	D	42	176.315	106.708	32.397	1.00	105.56	DS4
ATOM	36353	C	GLN	D	42	172.852	110.816	31.788	1.00	70.18	DS4
ATOM	36354	O	GLN	D	42	173.908	111.437	31.847	1.00	70.18	DS4
ATOM	36355	N	HIS	D	43	171.842	111.195	31.012	1.00	94.71	DS4
ATOM	36356	CA	HIS	D	43	171.981	112.362	30.135	1.00	94.71	DS4
ATOM	36357	CB	HIS	D	43	171.932	111.913	28.673	1.00	76.10	DS4
ATOM	36358	CG	HIS	D	43	172.867	110.789	28.357	1.00	76.10	DS4
ATOM	36359	CD2	HIS	D	43	172.651	109.456	28.245	1.00	76.10	DS4
ATOM	36360	ND1	HIS	D	43	174.216	110.979	28.150	1.00	76.10	DS4
ATOM	36361	CE1	HIS	D	43	174.792	109.811	27.924	1.00	76.10	DS4
ATOM	36362	NE2	HIS	D	43	173.864	108.871	27.976	1.00	76.10	DS4
ATOM	36363	C	HIS	D	43	170.956	113.460	30.328	1.00	94.71	DS4
ATOM	36364	O	HIS	D	43	171.110	114.547	29.788	1.00	94.71	DS4
ATOM	36365	N	GLY	D	44	169.911	113.170	31.087	1.00	99.38	DS4
ATOM	36366	CA	GLY	D	44	168.856	114.143	31.312	1.00	99.38	DS4
ATOM	36367	C	GLY	D	44	169.193	115.625	31.222	1.00	99.38	DS4
ATOM	36368	O	GLY	D	44	168.402	116.423	30.694	1.00	99.38	DS4
ATOM	36369	N	GLN	D	45	170.367	116.004	31.718	1.00	86.90	DS4
ATOM	36370	CA	GLN	D	45	170.745	117.407	31.717	1.00	86.90	DS4
ATOM	36371	CB	GLN	D	45	171.552	117.702	32.978	1.00	103.63	DS4
ATOM	36372	CG	GLN	D	45	170.725	117.451	34.232	1.00	103.63	DS4
ATOM	36373	CD	GLN	D	45	171.501	117.659	35.507	1.00	103.63	DS4
ATOM	36374	OE1	GLN	D	45	172.114	118.706	35.701	1.00	103.63	DS4
ATOM	36375	NE2	GLN	D	45	171.472	116.666	36.394	1.00	103.63	DS4
ATOM	36376	C	GLN	D	45	171.450	117.938	30.478	1.00	86.90	DS4
ATOM	36377	O	GLN	D	45	171.461	119.144	30.252	1.00	86.90	DS4
ATOM	36378	N	LYS	D	46	172.023	117.059	29.665	1.00	93.67	DS4
ATOM	36379	CA	LYS	D	46	172.697	117.503	28.446	1.00	93.67	DS4
ATOM	36380	CB	LYS	D	46	173.278	116.316	27.685	1.00	102.78	DS4
ATOM	36381	CG	LYS	D	46	174.471	115.670	28.340	1.00	102.78	DS4
ATOM	36382	CD	LYS	D	46	174.859	114.417	27.591	1.00	102.78	DS4
ATOM	36383	CE	LYS	D	46	175.987	113.696	28.283	1.00	102.78	DS4
ATOM	36384	NZ	LYS	D	46	176.243	112.402	27.607	1.00	102.78	DS4
ATOM	36385	C	LYS	D	46	171.722	118.232	27.530	1.00	93.67	DS4
ATOM	36386	O	LYS	D	46	170.507	118.009	27.595	1.00	93.67	DS4
ATOM	36387	N	ARG	D	47	172.266	119.097	26.676	1.00	101.30	DS4
ATOM	36388	CA	ARG	D	47	171.471	119.870	25.725	1.00	101.30	DS4
ATOM	36389	CB	ARG	D	47	172.394	120.727	24.853	1.00	163.18	DS4
ATOM	36390	CG	ARG	D	47	171.770	121.185	23.543	1.00	163.18	DS4
ATOM	36391	CD	ARG	D	47	172.837	121.609	22.546	1.00	163.18	DS4
ATOM	36392	NE	ARG	D	47	172.416	121.357	21.170	1.00	163.18	DS4
ATOM	36393	CZ	ARG	D	47	173.192	121.529	20.105	1.00	163.18	DS4
ATOM	36394	NH1	ARG	D	47	174.440	121.959	20.250	1.00	163.18	DS4
ATOM	36395	NH2	ARG	D	47	172.721	121.263	18.896	1.00	163.18	DS4
ATOM	36396	C	ARG	D	47	170.650	118.941	24.836	1.00	101.30	DS4
ATOM	36397	O	ARG	D	47	171.151	117.907	24.394	1.00	101.30	DS4
ATOM	36398	N	ALA	D	48	169.396	119.308	24.575	1.00	129.68	DS4
ATOM	36399	CA	ALA	D	48	168.518	118.497	23.729	1.00	129.68	DS4
ATOM	36400	CB	ALA	D	48	167.095	118.548	24.259	1.00	129.45	DS4
ATOM	36401	C	ALA	D	48	168.556	118.995	22.287	1.00	129.68	DS4
ATOM	36402	O	ALA	D	48	168.397	120.188	22.034	1.00	129.68	DS4
ATOM	36403	N	ARG	D	49	168.765	118.082	21.343	1.00	89.02	DS4
ATOM	36404	CA	ARG	D	49	168.831	118.450	19.931	1.00	89.02	DS4
ATOM	36405	CB	ARG	D	49	169.635	117.412	19.150	1.00	168.92	DS4
ATOM	36406	CG	ARG	D	49	171.081	117.283	19.588	1.00	168.92	DS4
ATOM	36407	CD	ARG	D	49	171.809	116.289	18.701	1.00	168.92	DS4
ATOM	36408	NE	ARG	D	49	173.226	116.162	19.031	1.00	168.92	DS4
ATOM	36409	CZ	ARG	D	49	174.088	115.426	18.335	1.00	168.92	DS4
ATOM	36410	NH1	ARG	D	49	173.679	114.751	17.269	1.00	168.92	DS4

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ATOM	36411	NH2	ARG	D	49	175.362	115.364	18.701	1.00168.92	DS4
ATOM	36412	C	ARG	D	49	167.444	118.588	19.316	1.00 89.02	DS4
ATOM	36413	O	ARG	D	49	166.473	118.027	19.827	1.00 89.02	DS4
ATOM	36414	N	ARG	D	50	167.368	119.341	18.219	1.00 88.19	DS4
ATOM	36415	CA	ARG	D	50	166.119	119.586	17.496	1.00 88.19	DS4
ATOM	36416	CB	ARG	D	50	166.428	120.296	16.168	1.00135.20	DS4
ATOM	36417	CG	ARG	D	50	165.211	120.792	15.407	1.00135.20	DS4
ATOM	36418	CD	ARG	D	50	164.791	119.833	14.296	1.00135.20	DS4
ATOM	36419	NE	ARG	D	50	165.684	119.883	13.138	1.00135.20	DS4
ATOM	36420	CZ	ARG	D	50	165.474	119.223	12.001	1.00135.20	DS4
ATOM	36421	NH1	ARG	D	50	164.398	118.458	11.871	1.00135.20	DS4
ATOM	36422	NH2	ARG	D	50	166.333	119.331	10.989	1.00135.20	DS4
ATOM	36423	C	ARG	D	50	165.401	118.261	17.243	1.00 88.19	DS4
ATOM	36424	O	ARG	D	50	165.831	117.462	16.418	1.00 88.19	DS4
ATOM	36425	N	PRO	D	51	164.293	118.011	17.955	1.00 73.78	DS4
ATOM	36426	CD	PRO	D	51	163.688	118.777	19.055	1.00 79.75	DS4
ATOM	36427	CA	PRO	D	51	163.572	116.752	17.755	1.00 73.78	DS4
ATOM	36428	CB	PRO	D	51	162.430	116.845	18.765	1.00 79.75	DS4
ATOM	36429	CG	PRO	D	51	163.025	117.677	19.861	1.00 79.75	DS4
ATOM	36430	C	PRO	D	51	163.069	116.586	16.334	1.00 73.78	DS4
ATOM	36431	O	PRO	D	51	162.826	117.573	15.633	1.00 73.78	DS4
ATOM	36432	N	SER	D	52	162.916	115.330	15.918	1.00 77.27	DS4
ATOM	36433	CA	SER	D	52	162.422	115.013	14.581	1.00 77.27	DS4
ATOM	36434	CB	SER	D	52	162.915	113.628	14.140	1.00 87.44	DS4
ATOM	36435	OG	SER	D	52	162.340	112.596	14.919	1.00 87.44	DS4
ATOM	36436	C	SER	D	52	160.890	115.050	14.541	1.00 77.27	DS4
ATOM	36437	O	SER	D	52	160.222	114.749	15.534	1.00 77.27	DS4
ATOM	36438	N	ASP	D	53	160.340	115.436	13.394	1.00 75.63	DS4
ATOM	36439	CA	ASP	D	53	158.896	115.496	13.233	1.00 75.63	DS4
ATOM	36440	CB	ASP	D	53	158.535	115.541	11.744	1.00123.43	DS4
ATOM	36441	CG	ASP	D	53	158.851	116.882	11.103	1.00123.43	DS4
ATOM	36442	OD1	ASP	D	53	159.882	117.486	11.467	1.00123.43	DS4
ATOM	36443	OD2	ASP	D	53	158.075	117.325	10.226	1.00123.43	DS4
ATOM	36444	C	ASP	D	53	158.292	114.254	13.885	1.00 75.63	DS4
ATOM	36445	O	ASP	D	53	157.169	114.286	14.395	1.00 75.63	DS4
ATOM	36446	N	TYR	D	54	159.044	113.157	13.873	1.00 69.83	DS4
ATOM	36447	CA	TYR	D	54	158.551	111.942	14.485	1.00 69.83	DS4
ATOM	36448	CB	TYR	D	54	159.462	110.756	14.179	1.00 64.61	DS4
ATOM	36449	CG	TYR	D	54	158.938	109.452	14.754	1.00 64.61	DS4
ATOM	36450	CD1	TYR	D	54	157.740	108.900	14.301	1.00 64.61	DS4
ATOM	36451	CE1	TYR	D	54	157.228	107.723	14.861	1.00 64.61	DS4
ATOM	36452	CD2	TYR	D	54	159.616	108.791	15.784	1.00 64.61	DS4
ATOM	36453	CE2	TYR	D	54	159.111	107.613	16.354	1.00 64.61	DS4
ATOM	36454	CZ	TYR	D	54	157.916	107.088	15.886	1.00 64.61	DS4
ATOM	36455	OH	TYR	D	54	157.400	105.937	16.448	1.00 64.61	DS4
ATOM	36456	C	TYR	D	54	158.511	112.183	15.984	1.00 69.83	DS4
ATOM	36457	O	TYR	D	54	157.433	112.263	16.576	1.00 69.83	DS4
ATOM	36458	N	ALA	D	55	159.694	112.311	16.587	1.00 68.10	DS4
ATOM	36459	CA	ALA	D	55	159.833	112.545	18.028	1.00 68.10	DS4
ATOM	36460	CB	ALA	D	55	161.137	113.256	18.321	1.00 53.91	DS4
ATOM	36461	C	ALA	D	55	158.682	113.367	18.553	1.00 68.10	DS4
ATOM	36462	O	ALA	D	55	158.035	112.995	19.526	1.00 68.10	DS4
ATOM	36463	N	VAL	D	56	158.438	114.492	17.897	1.00 66.30	DS4
ATOM	36464	CA	VAL	D	56	157.351	115.382	18.262	1.00 66.30	DS4
ATOM	36465	CB	VAL	D	56	157.250	116.506	17.252	1.00 53.44	DS4
ATOM	36466	CG1	VAL	D	56	155.949	117.274	17.434	1.00 53.44	DS4
ATOM	36467	CG2	VAL	D	56	158.462	117.397	17.402	1.00 53.44	DS4
ATOM	36468	C	VAL	D	56	156.008	114.660	18.345	1.00 66.30	DS4
ATOM	36469	O	VAL	D	56	155.377	114.646	19.404	1.00 66.30	DS4
ATOM	36470	N	ARG	D	57	155.564	114.074	17.233	1.00 66.24	DS4
ATOM	36471	CA	ARG	D	57	154.296	113.347	17.230	1.00 66.24	DS4
ATOM	36472	CB	ARG	D	57	153.963	112.788	15.840	1.00 79.27	DS4
ATOM	36473	CG	ARG	D	57	153.269	113.749	14.883	1.00 79.27	DS4
ATOM	36474	CD	ARG	D	57	154.185	114.882	14.511	1.00 79.27	DS4
ATOM	36475	NE	ARG	D	57	153.651	115.679	13.420	1.00 79.27	DS4
ATOM	36476	CZ	ARG	D	57	154.166	116.844	13.046	1.00 79.27	DS4
ATOM	36477	NH1	ARG	D	57	155.226	117.344	13.680	1.00 79.27	DS4
ATOM	36478	NH2	ARG	D	57	153.622	117.508	12.034	1.00 79.27	DS4
ATOM	36479	C	ARG	D	57	154.378	112.184	18.202	1.00 66.24	DS4
ATOM	36480	O	ARG	D	57	153.389	111.804	18.819	1.00 66.24	DS4
ATOM	36481	N	LEU	D	58	155.561	111.603	18.334	1.00 68.59	DS4
ATOM	36482	CA	LEU	D	58	155.704	110.485	19.241	1.00 68.59	DS4
ATOM	36483	CB	LEU	D	58	157.070	109.811	19.052	1.00 70.65	DS4
ATOM	36484	CG	LEU	D	58	157.278	108.478	19.788	1.00 70.65	DS4
ATOM	36485	CD1	LEU	D	58	157.605	108.725	21.243	1.00 70.65	DS4
ATOM	36486	CD2	LEU	D	58	156.026	107.611	19.654	1.00 70.65	DS4
ATOM	36487	C	LEU	D	58	155.514	110.943	20.689	1.00 68.59	DS4

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ATOM	36488	O	LEU	D	58	154.622	110.454	21.383	1.00	68.59	DS4
ATOM	36489	N	ARG	D	59	156.330	111.888	21.145	1.00	78.57	DS4
ATOM	36490	CA	ARG	D	59	156.213	112.364	22.519	1.00	78.57	DS4
ATOM	36491	CB	ARG	D	59	157.220	113.487	22.788	1.00	68.48	DS4
ATOM	36492	CG	ARG	D	59	158.650	113.215	22.329	1.00	68.48	DS4
ATOM	36493	CD	ARG	D	59	159.410	112.197	23.170	1.00	68.48	DS4
ATOM	36494	NE	ARG	D	59	158.586	111.542	24.175	1.00	68.48	DS4
ATOM	36495	CZ	ARG	D	59	158.773	110.290	24.594	1.00	68.48	DS4
ATOM	36496	NH1	ARG	D	59	159.764	109.546	24.094	1.00	68.48	DS4
ATOM	36497	NH2	ARG	D	59	157.949	109.771	25.500	1.00	68.48	DS4
ATOM	36498	C	ARG	D	59	154.789	112.854	22.842	1.00	78.57	DS4
ATOM	36499	O	ARG	D	59	154.258	112.575	23.924	1.00	78.57	DS4
ATOM	36500	N	GLU	D	60	154.163	113.571	21.913	1.00	66.33	DS4
ATOM	36501	CA	GLU	D	60	152.820	114.072	22.172	1.00	66.33	DS4
ATOM	36502	CB	GLU	D	60	152.293	114.879	20.996	1.00	81.96	DS4
ATOM	36503	CG	GLU	D	60	151.166	115.807	21.416	1.00	81.96	DS4
ATOM	36504	CD	GLU	D	60	151.638	116.921	22.358	1.00	81.96	DS4
ATOM	36505	OE1	GLU	D	60	152.765	116.811	22.891	1.00	81.96	DS4
ATOM	36506	OE2	GLU	D	60	150.880	117.902	22.571	1.00	81.96	DS4
ATOM	36507	C	GLU	D	60	151.844	112.947	22.490	1.00	66.33	DS4
ATOM	36508	O	GLU	D	60	151.071	113.047	23.443	1.00	66.33	DS4
ATOM	36509	N	LYS	D	61	151.865	111.879	21.695	1.00	65.31	DS4
ATOM	36510	CA	LYS	D	61	150.980	110.747	21.951	1.00	65.31	DS4
ATOM	36511	CB	LYS	D	61	151.144	109.656	20.897	1.00	82.28	DS4
ATOM	36512	CG	LYS	D	61	150.171	108.503	21.098	1.00	82.28	DS4
ATOM	36513	CD	LYS	D	61	150.576	107.270	20.322	1.00	82.28	DS4
ATOM	36514	CE	LYS	D	61	151.774	106.572	20.949	1.00	82.28	DS4
ATOM	36515	NZ	LYS	D	61	151.491	106.098	22.330	1.00	82.28	DS4
ATOM	36516	C	LYS	D	61	151.321	110.161	23.315	1.00	65.31	DS4
ATOM	36517	O	LYS	D	61	150.448	110.035	24.164	1.00	65.31	DS4
ATOM	36518	N	GLN	D	62	152.592	109.807	23.517	1.00	75.66	DS4
ATOM	36519	CA	GLN	D	62	153.056	109.242	24.789	1.00	75.66	DS4
ATOM	36520	CB	GLN	D	62	154.581	109.261	24.869	1.00	86.00	DS4
ATOM	36521	CG	GLN	D	62	155.216	108.227	23.981	1.00	86.00	DS4
ATOM	36522	CD	GLN	D	62	154.681	106.839	24.261	1.00	86.00	DS4
ATOM	36523	OE1	GLN	D	62	154.896	106.290	25.338	1.00	86.00	DS4
ATOM	36524	NE2	GLN	D	62	153.971	106.266	23.295	1.00	86.00	DS4
ATOM	36525	C	GLN	D	62	152.484	110.015	25.961	1.00	75.66	DS4
ATOM	36526	O	GLN	D	62	152.134	109.441	26.992	1.00	75.66	DS4
ATOM	36527	N	LYS	D	63	152.405	111.329	25.800	1.00	75.76	DS4
ATOM	36528	CA	LYS	D	63	151.836	112.176	26.828	1.00	75.76	DS4
ATOM	36529	CB	LYS	D	63	151.929	113.639	26.386	1.00	73.83	DS4
ATOM	36530	CG	LYS	D	63	151.626	114.646	27.471	1.00	73.83	DS4
ATOM	36531	CD	LYS	D	63	151.623	116.070	26.925	1.00	73.83	DS4
ATOM	36532	CE	LYS	D	63	152.967	116.446	26.330	1.00	73.83	DS4
ATOM	36533	NZ	LYS	D	63	152.913	117.819	25.766	1.00	73.83	DS4
ATOM	36534	C	LYS	D	63	150.369	111.714	26.949	1.00	75.76	DS4
ATOM	36535	O	LYS	D	63	150.065	110.791	27.715	1.00	75.76	DS4
ATOM	36536	N	LEU	D	64	149.479	112.327	26.168	1.00	62.45	DS4
ATOM	36537	CA	LEU	D	64	148.054	111.985	26.174	1.00	62.45	DS4
ATOM	36538	CB	LEU	D	64	147.482	112.109	24.767	1.00	54.69	DS4
ATOM	36539	CG	LEU	D	64	145.986	112.380	24.604	1.00	54.69	DS4
ATOM	36540	CD1	LEU	D	64	145.534	111.774	23.278	1.00	54.69	DS4
ATOM	36541	CD2	LEU	D	64	145.193	111.782	25.743	1.00	54.69	DS4
ATOM	36542	C	LEU	D	64	147.792	110.567	26.686	1.00	62.45	DS4
ATOM	36543	O	LEU	D	64	147.028	110.370	27.625	1.00	62.45	DS4
ATOM	36544	N	ARG	D	65	148.424	109.575	26.074	1.00	62.16	DS4
ATOM	36545	CA	ARG	D	65	148.226	108.198	26.507	1.00	62.16	DS4
ATOM	36546	CB	ARG	D	65	148.917	107.234	25.528	1.00	69.35	DS4
ATOM	36547	CG	ARG	D	65	149.089	105.828	26.072	1.00	69.35	DS4
ATOM	36548	CD	ARG	D	65	149.272	104.774	24.990	1.00	69.35	DS4
ATOM	36549	NE	ARG	D	65	150.126	103.688	25.470	1.00	69.35	DS4
ATOM	36550	CZ	ARG	D	65	151.458	103.732	25.468	1.00	69.35	DS4
ATOM	36551	NH1	ARG	D	65	152.085	104.800	24.997	1.00	69.35	DS4
ATOM	36552	NH2	ARG	D	65	152.167	102.725	25.965	1.00	69.35	DS4
ATOM	36553	C	ARG	D	65	148.671	107.915	27.956	1.00	62.16	DS4
ATOM	36554	O	ARG	D	65	147.914	107.336	28.743	1.00	62.16	DS4
ATOM	36555	N	ARG	D	66	149.885	108.320	28.315	1.00	63.46	DS4
ATOM	36556	CA	ARG	D	66	150.373	108.076	29.671	1.00	63.46	DS4
ATOM	36557	CB	ARG	D	66	151.834	108.510	29.811	1.00	77.10	DS4
ATOM	36558	CG	ARG	D	66	152.802	107.543	29.143	1.00	77.10	DS4
ATOM	36559	CD	ARG	D	66	154.239	108.025	29.186	1.00	77.10	DS4
ATOM	36560	NE	ARG	D	66	155.169	106.970	28.787	1.00	77.10	DS4
ATOM	36561	CZ	ARG	D	66	156.479	107.147	28.625	1.00	77.10	DS4
ATOM	36562	NH1	ARG	D	66	157.024	108.345	28.824	1.00	77.10	DS4
ATOM	36563	NH2	ARG	D	66	157.246	106.121	28.272	1.00	77.10	DS4
ATOM	36564	C	ARG	D	66	149.519	108.772	30.713	1.00	63.46	DS4

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ATOM	36565	O	ARG	D	66	149.520	108.390	31.878	1.00	63.46	DS4
ATOM	36566	N	ILE	D	67	148.775	109.785	30.285	1.00	76.74	DS4
ATOM	36567	CA	ILE	D	67	147.905	110.520	31.189	1.00	76.74	DS4
ATOM	36568	CB	ILE	D	67	147.313	111.750	30.507	1.00	78.56	DS4
ATOM	36569	CG2	ILE	D	67	146.087	112.234	31.263	1.00	78.56	DS4
ATOM	36570	CG1	ILE	D	67	148.369	112.844	30.433	1.00	78.56	DS4
ATOM	36571	CD1	ILE	D	67	147.850	114.134	29.849	1.00	78.56	DS4
ATOM	36572	C	ILE	D	67	146.753	109.674	31.707	1.00	76.74	DS4
ATOM	36573	O	ILE	D	67	146.363	109.783	32.868	1.00	76.74	DS4
ATOM	36574	N	TYR	D	68	146.193	108.847	30.837	1.00	80.62	DS4
ATOM	36575	CA	TYR	D	68	145.084	107.992	31.231	1.00	80.62	DS4
ATOM	36576	CB	TYR	D	68	144.043	107.929	30.114	1.00	65.30	DS4
ATOM	36577	CG	TYR	D	68	143.418	109.256	29.786	1.00	65.30	DS4
ATOM	36578	CD1	TYR	D	68	144.203	110.351	29.453	1.00	65.30	DS4
ATOM	36579	CE1	TYR	D	68	143.631	111.587	29.180	1.00	65.30	DS4
ATOM	36580	CD2	TYR	D	68	142.039	109.425	29.832	1.00	65.30	DS4
ATOM	36581	CE2	TYR	D	68	141.455	110.656	29.561	1.00	65.30	DS4
ATOM	36582	CZ	TYR	D	68	142.256	111.734	29.240	1.00	65.30	DS4
ATOM	36583	OH	TYR	D	68	141.689	112.966	29.017	1.00	65.30	DS4
ATOM	36584	C	TYR	D	68	145.601	106.592	31.538	1.00	80.62	DS4
ATOM	36585	O	TYR	D	68	144.823	105.634	31.636	1.00	80.62	DS4
ATOM	36586	N	GLY	D	69	146.920	106.482	31.677	1.00	72.33	DS4
ATOM	36587	CA	GLY	D	69	147.533	105.201	31.979	1.00	72.33	DS4
ATOM	36588	C	GLY	D	69	146.908	104.042	31.232	1.00	72.33	DS4
ATOM	36589	O	GLY	D	69	146.567	103.022	31.819	1.00	72.33	DS4
ATOM	36590	N	ILE	D	70	146.757	104.207	29.927	1.00	88.71	DS4
ATOM	36591	CA	ILE	D	70	146.179	103.171	29.093	1.00	88.71	DS4
ATOM	36592	CB	ILE	D	70	145.000	103.734	28.293	1.00	72.92	DS4
ATOM	36593	CG2	ILE	D	70	144.964	103.158	26.882	1.00	72.92	DS4
ATOM	36594	CG1	ILE	D	70	143.708	103.431	29.035	1.00	72.92	DS4
ATOM	36595	CD1	ILE	D	70	142.496	103.853	28.262	1.00	72.92	DS4
ATOM	36596	C	ILE	D	70	147.222	102.596	28.141	1.00	88.71	DS4
ATOM	36597	O	ILE	D	70	148.034	103.333	27.581	1.00	88.71	DS4
ATOM	36598	N	SER	D	71	147.198	101.277	27.961	1.00	71.37	DS4
ATOM	36599	CA	SER	D	71	148.148	100.613	27.071	1.00	71.37	DS4
ATOM	36600	CB	SER	D	71	147.975	99.095	27.138	1.00	73.98	DS4
ATOM	36601	OG	SER	D	71	146.734	98.708	26.568	1.00	73.98	DS4
ATOM	36602	C	SER	D	71	147.921	101.062	25.636	1.00	71.37	DS4
ATOM	36603	O	SER	D	71	146.782	101.320	25.237	1.00	71.37	DS4
ATOM	36604	N	GLU	D	72	149.001	101.151	24.861	1.00	75.41	DS4
ATOM	36605	CA	GLU	D	72	148.886	101.546	23.464	1.00	75.41	DS4
ATOM	36606	CB	GLU	D	72	150.207	101.331	22.727	1.00	102.52	DS4
ATOM	36607	CG	GLU	D	72	150.102	101.572	21.224	1.00	102.52	DS4
ATOM	36608	CD	GLU	D	72	150.014	103.050	20.841	1.00	102.52	DS4
ATOM	36609	OE1	GLU	D	72	149.567	103.344	19.705	1.00	102.52	DS4
ATOM	36610	OE2	GLU	D	72	150.407	103.910	21.661	1.00	102.52	DS4
ATOM	36611	C	GLU	D	72	147.800	100.689	22.824	1.00	75.41	DS4
ATOM	36612	O	GLU	D	72	146.948	101.192	22.098	1.00	75.41	DS4
ATOM	36613	N	ARG	D	73	147.830	99.392	23.117	1.00	87.30	DS4
ATOM	36614	CA	ARG	D	73	146.846	98.465	22.578	1.00	87.30	DS4
ATOM	36615	CB	ARG	D	73	146.923	97.131	23.312	1.00	115.74	DS4
ATOM	36616	CG	ARG	D	73	146.145	96.033	22.636	1.00	115.74	DS4
ATOM	36617	CD	ARG	D	73	146.636	95.848	21.220	1.00	115.74	DS4
ATOM	36618	NE	ARG	D	73	145.986	94.723	20.559	1.00	115.74	DS4
ATOM	36619	CZ	ARG	D	73	146.245	94.342	19.313	1.00	115.74	DS4
ATOM	36620	NH1	ARG	D	73	147.144	94.999	18.588	1.00	115.74	DS4
ATOM	36621	NH2	ARG	D	73	145.606	93.304	18.791	1.00	115.74	DS4
ATOM	36622	C	ARG	D	73	145.429	99.031	22.684	1.00	87.30	DS4
ATOM	36623	O	ARG	D	73	144.758	99.199	21.667	1.00	87.30	DS4
ATOM	36624	N	GLN	D	74	144.978	99.328	23.906	1.00	69.44	DS4
ATOM	36625	CA	GLN	D	74	143.638	99.880	24.122	1.00	69.44	DS4
ATOM	36626	CB	GLN	D	74	143.292	99.927	25.610	1.00	91.22	DS4
ATOM	36627	CG	GLN	D	74	142.803	98.616	26.198	1.00	91.22	DS4
ATOM	36628	CD	GLN	D	74	141.893	98.821	27.415	1.00	91.22	DS4
ATOM	36629	OE1	GLN	D	74	142.269	99.458	28.409	1.00	91.22	DS4
ATOM	36630	NE2	GLN	D	74	140.684	98.278	27.334	1.00	91.22	DS4
ATOM	36631	C	GLN	D	74	143.501	101.284	23.550	1.00	69.44	DS4
ATOM	36632	O	GLN	D	74	142.445	101.646	23.034	1.00	69.44	DS4
ATOM	36633	N	PHE	D	75	144.574	102.063	23.650	1.00	70.16	DS4
ATOM	36634	CA	PHE	D	75	144.628	103.447	23.160	1.00	70.16	DS4
ATOM	36635	CB	PHE	D	75	146.037	104.011	23.383	1.00	70.69	DS4
ATOM	36636	CG	PHE	D	75	146.120	105.509	23.356	1.00	70.69	DS4
ATOM	36637	CD1	PHE	D	75	145.759	106.256	24.464	1.00	70.69	DS4
ATOM	36638	CD2	PHE	D	75	146.618	106.167	22.245	1.00	70.69	DS4
ATOM	36639	CE1	PHE	D	75	145.899	107.645	24.467	1.00	70.69	DS4
ATOM	36640	CE2	PHE	D	75	146.763	107.553	22.237	1.00	70.69	DS4
ATOM	36641	CZ	PHE	D	75	146.404	108.294	23.354	1.00	70.69	DS4

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ATOM	36642	C	PHE	D	75	144.301	103.518	21.674	1.00	70.16	DS4
ATOM	36643	O	PHE	D	75	143.410	104.258	21.253	1.00	70.16	DS4
ATOM	36644	N	ARG	D	76	145.036	102.740	20.885	1.00	62.99	DS4
ATOM	36645	CA	ARG	D	76	144.852	102.710	19.437	1.00	62.99	DS4
ATOM	36646	CB	ARG	D	76	145.825	101.717	18.791	1.00	120.61	DS4
ATOM	36647	CG	ARG	D	76	145.778	101.706	17.270	1.00	120.61	DS4
ATOM	36648	CD	ARG	D	76	145.794	103.126	16.743	1.00	120.61	DS4
ATOM	36649	NE	ARG	D	76	145.890	103.219	15.288	1.00	120.61	DS4
ATOM	36650	CZ	ARG	D	76	146.968	102.894	14.582	1.00	120.61	DS4
ATOM	36651	NH1	ARG	D	76	148.056	102.439	15.195	1.00	120.61	DS4
ATOM	36652	NH2	ARG	D	76	146.969	103.055	13.264	1.00	120.61	DS4
ATOM	36653	C	ARG	D	76	143.425	102.348	19.081	1.00	62.99	DS4
ATOM	36654	O	ARG	D	76	142.743	103.095	18.380	1.00	62.99	DS4
ATOM	36655	N	ASN	D	77	142.971	101.203	19.566	1.00	74.29	DS4
ATOM	36656	CA	ASN	D	77	141.611	100.781	19.287	1.00	74.29	DS4
ATOM	36657	CB	ASN	D	77	141.273	99.552	20.118	1.00	94.36	DS4
ATOM	36658	CG	ASN	D	77	142.144	98.382	19.763	1.00	94.36	DS4
ATOM	36659	OD1	ASN	D	77	142.274	98.033	18.588	1.00	94.36	DS4
ATOM	36660	ND2	ASN	D	77	142.755	97.769	20.765	1.00	94.36	DS4
ATOM	36661	C	ASN	D	77	140.647	101.923	19.593	1.00	74.29	DS4
ATOM	36662	O	ASN	D	77	139.778	102.267	18.778	1.00	74.29	DS4
ATOM	36663	N	LEU	D	78	140.814	102.521	20.766	1.00	72.63	DS4
ATOM	36664	CA	LEU	D	78	139.966	103.625	21.149	1.00	72.63	DS4
ATOM	36665	CB	LEU	D	78	140.403	104.192	22.478	1.00	58.53	DS4
ATOM	36666	CG	LEU	D	78	139.223	104.304	23.425	1.00	58.53	DS4
ATOM	36667	CD1	LEU	D	78	139.614	105.223	24.580	1.00	58.53	DS4
ATOM	36668	CD2	LEU	D	78	138.000	104.837	22.673	1.00	58.53	DS4
ATOM	36669	C	LEU	D	78	140.061	104.706	20.098	1.00	72.63	DS4
ATOM	36670	O	LEU	D	78	139.047	105.154	19.576	1.00	72.63	DS4
ATOM	36671	N	PHE	D	79	141.282	105.130	19.793	1.00	63.79	DS4
ATOM	36672	CA	PHE	D	79	141.479	106.152	18.770	1.00	63.79	DS4
ATOM	36673	CB	PHE	D	79	142.968	106.411	18.537	1.00	68.75	DS4
ATOM	36674	CG	PHE	D	79	143.249	107.256	17.322	1.00	68.75	DS4
ATOM	36675	CD1	PHE	D	79	143.302	108.642	17.418	1.00	68.75	DS4
ATOM	36676	CD2	PHE	D	79	143.425	106.664	16.077	1.00	68.75	DS4
ATOM	36677	CE1	PHE	D	79	143.526	109.431	16.289	1.00	68.75	DS4
ATOM	36678	CE2	PHE	D	79	143.648	107.438	14.946	1.00	68.75	DS4
ATOM	36679	CZ	PHE	D	79	143.699	108.826	15.050	1.00	68.75	DS4
ATOM	36680	C	PHE	D	79	140.854	105.708	17.442	1.00	63.79	DS4
ATOM	36681	O	PHE	D	79	140.016	106.408	16.861	1.00	63.79	DS4
ATOM	36682	N	GLU	D	80	141.278	104.550	16.952	1.00	66.88	DS4
ATOM	36683	CA	GLU	D	80	140.746	104.049	15.706	1.00	66.88	DS4
ATOM	36684	CB	GLU	D	80	141.245	102.634	15.451	1.00	112.57	DS4
ATOM	36685	CG	GLU	D	80	142.620	102.619	14.825	1.00	112.57	DS4
ATOM	36686	CD	GLU	D	80	142.614	103.216	13.428	1.00	112.57	DS4
ATOM	36687	OE1	GLU	D	80	143.709	103.467	12.875	1.00	112.57	DS4
ATOM	36688	OE2	GLU	D	80	141.507	103.426	12.880	1.00	112.57	DS4
ATOM	36689	C	GLU	D	80	139.229	104.088	15.699	1.00	66.88	DS4
ATOM	36690	O	GLU	D	80	138.617	104.152	14.638	1.00	66.88	DS4
ATOM	36691	N	GLU	D	81	138.614	104.065	16.877	1.00	83.93	DS4
ATOM	36692	CA	GLU	D	81	137.157	104.110	16.961	1.00	83.93	DS4
ATOM	36693	CB	GLU	D	81	136.690	103.680	18.349	1.00	96.31	DS4
ATOM	36694	CG	GLU	D	81	135.185	103.716	18.519	1.00	96.31	DS4
ATOM	36695	CD	GLU	D	81	134.731	103.190	19.871	1.00	96.31	DS4
ATOM	36696	OE1	GLU	D	81	133.500	103.090	20.079	1.00	96.31	DS4
ATOM	36697	OE2	GLU	D	81	135.599	102.878	20.722	1.00	96.31	DS4
ATOM	36698	C	GLU	D	81	136.643	105.514	16.675	1.00	83.93	DS4
ATOM	36699	O	GLU	D	81	135.729	105.704	15.879	1.00	83.93	DS4
ATOM	36700	N	ALA	D	82	137.244	106.495	17.335	1.00	70.74	DS4
ATOM	36701	CA	ALA	D	82	136.858	107.889	17.180	1.00	70.74	DS4
ATOM	36702	CB	ALA	D	82	137.695	108.756	18.101	1.00	47.98	DS4
ATOM	36703	C	ALA	D	82	137.040	108.347	15.746	1.00	70.74	DS4
ATOM	36704	O	ALA	D	82	136.337	109.237	15.267	1.00	70.74	DS4
ATOM	36705	N	SER	D	83	137.999	107.738	15.065	1.00	87.77	DS4
ATOM	36706	CA	SER	D	83	138.275	108.099	13.689	1.00	87.77	DS4
ATOM	36707	CB	SER	D	83	139.482	107.314	13.186	1.00	111.01	DS4
ATOM	36708	OG	SER	D	83	140.555	107.417	14.108	1.00	111.01	DS4
ATOM	36709	C	SER	D	83	137.060	107.813	12.820	1.00	87.77	DS4
ATOM	36710	O	SER	D	83	136.661	108.650	12.007	1.00	87.77	DS4
ATOM	36711	N	LYS	D	84	136.465	106.637	13.008	1.00	71.95	DS4
ATOM	36712	CA	LYS	D	84	135.299	106.239	12.235	1.00	71.95	DS4
ATOM	36713	CB	LYS	D	84	135.054	104.743	12.396	1.00	109.55	DS4
ATOM	36714	CG	LYS	D	84	136.208	103.901	11.904	1.00	109.55	DS4
ATOM	36715	CD	LYS	D	84	135.964	102.417	12.122	1.00	109.55	DS4
ATOM	36716	CE	LYS	D	84	137.163	101.596	11.658	1.00	109.55	DS4
ATOM	36717	NZ	LYS	D	84	136.973	100.144	11.941	1.00	109.55	DS4
ATOM	36718	C	LYS	D	84	134.050	107.013	12.631	1.00	71.95	DS4

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ATOM	36719	O	LYS	D	84	133.222	107.337	11.780	1.00	71.95	DS4
ATOM	36720	N	LYS	D	85	133.916	107.321	13.918	1.00	77.72	DS4
ATOM	36721	CA	LYS	D	85	132.745	108.048	14.399	1.00	77.72	DS4
ATOM	36722	CB	LYS	D	85	132.787	108.205	15.923	1.00	91.86	DS4
ATOM	36723	CG	LYS	D	85	132.978	106.910	16.674	1.00	91.86	DS4
ATOM	36724	CD	LYS	D	85	132.391	106.983	18.071	1.00	91.86	DS4
ATOM	36725	CE	LYS	D	85	130.868	107.006	18.026	1.00	91.86	DS4
ATOM	36726	NZ	LYS	D	85	130.253	106.790	19.371	1.00	91.86	DS4
ATOM	36727	C	LYS	D	85	132.652	109.424	13.762	1.00	77.72	DS4
ATOM	36728	O	LYS	D	85	133.674	110.028	13.433	1.00	77.72	DS4
ATOM	36729	N	LYS	D	86	131.419	109.906	13.596	1.00	90.58	DS4
ATOM	36730	CA	LYS	D	86	131.150	111.223	13.015	1.00	90.58	DS4
ATOM	36731	CB	LYS	D	86	129.643	111.436	12.817	1.00	109.94	DS4
ATOM	36732	CG	LYS	D	86	129.141	111.178	11.415	1.00	109.94	DS4
ATOM	36733	CD	LYS	D	86	127.706	111.654	11.254	1.00	109.94	DS4
ATOM	36734	CE	LYS	D	86	127.187	111.401	9.833	1.00	109.94	DS4
ATOM	36735	NZ	LYS	D	86	125.742	111.788	9.653	1.00	109.94	DS4
ATOM	36736	C	LYS	D	86	131.675	112.347	13.902	1.00	90.58	DS4
ATOM	36737	O	LYS	D	86	131.578	112.278	15.130	1.00	90.58	DS4
ATOM	36738	N	GLY	D	87	132.225	113.385	13.279	1.00	92.16	DS4
ATOM	36739	CA	GLY	D	87	132.723	114.510	14.048	1.00	92.16	DS4
ATOM	36740	C	GLY	D	87	134.215	114.542	14.274	1.00	92.16	DS4
ATOM	36741	O	GLY	D	87	134.880	113.505	14.278	1.00	92.16	DS4
ATOM	36742	N	VAL	D	88	134.735	115.748	14.475	1.00	84.79	DS4
ATOM	36743	CA	VAL	D	88	136.157	115.939	14.696	1.00	84.79	DS4
ATOM	36744	CB	VAL	D	88	136.451	117.276	15.380	1.00	59.61	DS4
ATOM	36745	CG1	VAL	D	88	137.971	117.440	15.560	1.00	59.61	DS4
ATOM	36746	CG2	VAL	D	88	135.869	118.411	14.561	1.00	59.61	DS4
ATOM	36747	C	VAL	D	88	136.767	114.841	15.550	1.00	84.79	DS4
ATOM	36748	O	VAL	D	88	136.391	114.632	16.709	1.00	84.79	DS4
ATOM	36749	N	THR	D	89	137.728	114.148	14.964	1.00	68.76	DS4
ATOM	36750	CA	THR	D	89	138.408	113.073	15.649	1.00	68.76	DS4
ATOM	36751	CB	THR	D	89	139.443	112.458	14.704	1.00	66.95	DS4
ATOM	36752	OG1	THR	D	89	138.815	112.208	13.441	1.00	66.95	DS4
ATOM	36753	CG2	THR	D	89	139.978	111.156	15.261	1.00	66.95	DS4
ATOM	36754	C	THR	D	89	139.080	113.554	16.948	1.00	68.76	DS4
ATOM	36755	O	THR	D	89	138.825	113.005	18.024	1.00	68.76	DS4
ATOM	36756	N	GLY	D	90	139.920	114.582	16.845	1.00	75.00	DS4
ATOM	36757	CA	GLY	D	90	140.613	115.094	18.018	1.00	75.00	DS4
ATOM	36758	C	GLY	D	90	139.750	115.150	19.269	1.00	75.00	DS4
ATOM	36759	O	GLY	D	90	140.127	114.670	20.347	1.00	75.00	DS4
ATOM	36760	N	SER	D	91	138.579	115.750	19.122	1.00	73.94	DS4
ATOM	36761	CA	SER	D	91	137.662	115.861	20.229	1.00	73.94	DS4
ATOM	36762	CB	SER	D	91	136.543	116.820	19.864	1.00	94.59	DS4
ATOM	36763	OG	SER	D	91	137.083	118.090	19.567	1.00	94.59	DS4
ATOM	36764	C	SER	D	91	137.103	114.491	20.561	1.00	73.94	DS4
ATOM	36765	O	SER	D	91	137.405	113.931	21.617	1.00	73.94	DS4
ATOM	36766	N	VAL	D	92	136.302	113.949	19.645	1.00	66.18	DS4
ATOM	36767	CA	VAL	D	92	135.691	112.636	19.833	1.00	66.18	DS4
ATOM	36768	CB	VAL	D	92	135.314	111.973	18.498	1.00	59.35	DS4
ATOM	36769	CG1	VAL	D	92	134.746	110.583	18.759	1.00	59.35	DS4
ATOM	36770	CG2	VAL	D	92	134.292	112.827	17.759	1.00	59.35	DS4
ATOM	36771	C	VAL	D	92	136.635	111.695	20.551	1.00	66.18	DS4
ATOM	36772	O	VAL	D	92	136.238	111.003	21.489	1.00	66.18	DS4
ATOM	36773	N	PHE	D	93	137.883	111.667	20.103	1.00	75.42	DS4
ATOM	36774	CA	PHE	D	93	138.867	110.806	20.725	1.00	75.42	DS4
ATOM	36775	CB	PHE	D	93	140.234	110.979	20.074	1.00	69.69	DS4
ATOM	36776	CG	PHE	D	93	141.282	110.046	20.619	1.00	69.69	DS4
ATOM	36777	CD1	PHE	D	93	142.633	110.325	20.458	1.00	69.69	DS4
ATOM	36778	CD2	PHE	D	93	140.917	108.887	21.296	1.00	69.69	DS4
ATOM	36779	CE1	PHE	D	93	143.610	109.467	20.967	1.00	69.69	DS4
ATOM	36780	CE2	PHE	D	93	141.885	108.020	21.810	1.00	69.69	DS4
ATOM	36781	CZ	PHE	D	93	143.237	108.312	21.645	1.00	69.69	DS4
ATOM	36782	C	PHE	D	93	138.967	111.146	22.205	1.00	75.42	DS4
ATOM	36783	O	PHE	D	93	138.787	110.280	23.059	1.00	75.42	DS4
ATOM	36784	N	LEU	D	94	139.258	112.403	22.516	1.00	64.49	DS4
ATOM	36785	CA	LEU	D	94	139.360	112.802	23.912	1.00	64.49	DS4
ATOM	36786	CB	LEU	D	94	139.637	114.303	24.021	1.00	48.67	DS4
ATOM	36787	CG	LEU	D	94	141.088	114.734	23.797	1.00	48.67	DS4
ATOM	36788	CD1	LEU	D	94	141.165	116.248	23.767	1.00	48.67	DS4
ATOM	36789	CD2	LEU	D	94	141.972	114.163	24.913	1.00	48.67	DS4
ATOM	36790	C	LEU	D	94	138.053	112.458	24.609	1.00	64.49	DS4
ATOM	36791	O	LEU	D	94	138.054	111.972	25.736	1.00	64.49	DS4
ATOM	36792	N	GLY	D	95	136.942	112.699	23.914	1.00	81.93	DS4
ATOM	36793	CA	GLY	D	95	135.632	112.420	24.470	1.00	81.93	DS4
ATOM	36794	C	GLY	D	95	135.504	111.016	25.019	1.00	81.93	DS4
ATOM	36795	O	GLY	D	95	134.890	110.806	26.059	1.00	81.93	DS4

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ATOM	36796	N	LEU	D	96	136.099	110.050	24.334	1.00	71.42	DS4
ATOM	36797	CA	LEU	D	96	136.021	108.660	24.762	1.00	71.42	DS4
ATOM	36798	CB	LEU	D	96	136.202	107.741	23.556	1.00	50.76	DS4
ATOM	36799	CG	LEU	D	96	134.926	107.592	22.723	1.00	50.76	DS4
ATOM	36800	CD1	LEU	D	96	134.205	108.951	22.550	1.00	50.76	DS4
ATOM	36801	CD2	LEU	D	96	135.310	106.990	21.389	1.00	50.76	DS4
ATOM	36802	C	LEU	D	96	136.978	108.262	25.878	1.00	71.42	DS4
ATOM	36803	O	LEU	D	96	136.643	107.417	26.706	1.00	71.42	DS4
ATOM	36804	N	LEU	D	97	138.168	108.847	25.906	1.00	80.03	DS4
ATOM	36805	CA	LEU	D	97	139.103	108.529	26.978	1.00	80.03	DS4
ATOM	36806	CB	LEU	D	97	140.414	109.294	26.815	1.00	73.81	DS4
ATOM	36807	CG	LEU	D	97	141.340	108.947	25.660	1.00	73.81	DS4
ATOM	36808	CD1	LEU	D	97	142.577	109.823	25.712	1.00	73.81	DS4
ATOM	36809	CD2	LEU	D	97	141.715	107.493	25.766	1.00	73.81	DS4
ATOM	36810	C	LEU	D	97	138.448	108.957	28.288	1.00	80.03	DS4
ATOM	36811	O	LEU	D	97	138.495	108.232	29.277	1.00	80.03	DS4
ATOM	36812	N	GLU	D	98	137.829	110.139	28.270	1.00	78.10	DS4
ATOM	36813	CA	GLU	D	98	137.159	110.715	29.434	1.00	78.10	DS4
ATOM	36814	CB	GLU	D	98	136.763	112.160	29.143	1.00	77.46	DS4
ATOM	36815	CG	GLU	D	98	137.083	113.111	30.267	1.00	77.46	DS4
ATOM	36816	CD	GLU	D	98	138.573	113.239	30.487	1.00	77.46	DS4
ATOM	36817	OE1	GLU	D	98	139.278	113.566	29.517	1.00	77.46	DS4
ATOM	36818	OE2	GLU	D	98	139.047	113.013	31.620	1.00	77.46	DS4
ATOM	36819	C	GLU	D	98	135.915	109.938	29.830	1.00	78.10	DS4
ATOM	36820	O	GLU	D	98	135.395	110.106	30.930	1.00	78.10	DS4
ATOM	36821	N	SER	D	99	135.436	109.098	28.921	1.00	57.34	DS4
ATOM	36822	CA	SER	D	99	134.252	108.292	29.170	1.00	57.34	DS4
ATOM	36823	CB	SER	D	99	133.517	108.025	27.855	1.00	66.45	DS4
ATOM	36824	OG	SER	D	99	132.930	109.203	27.339	1.00	66.45	DS4
ATOM	36825	C	SER	D	99	134.571	106.958	29.863	1.00	57.34	DS4
ATOM	36826	O	SER	D	99	133.664	106.148	30.142	1.00	57.34	DS4
ATOM	36827	N	ARG	D	100	135.851	106.713	30.125	1.00	65.09	DS4
ATOM	36828	CA	ARG	D	100	136.231	105.484	30.808	1.00	65.09	DS4
ATOM	36829	CB	ARG	D	100	137.743	105.279	30.778	1.00	78.88	DS4
ATOM	36830	CG	ARG	D	100	138.312	104.921	29.431	1.00	78.88	DS4
ATOM	36831	CD	ARG	D	100	139.818	104.949	29.497	1.00	78.88	DS4
ATOM	36832	NE	ARG	D	100	140.370	103.940	30.401	1.00	78.88	DS4
ATOM	36833	CZ	ARG	D	100	140.380	102.634	30.143	1.00	78.88	DS4
ATOM	36834	NH1	ARG	D	100	139.860	102.184	29.008	1.00	78.88	DS4
ATOM	36835	NH2	ARG	D	100	140.921	101.777	31.004	1.00	78.88	DS4
ATOM	36836	C	ARG	D	100	135.783	105.619	32.251	1.00	65.09	DS4
ATOM	36837	O	ARG	D	100	135.960	106.670	32.866	1.00	65.09	DS4
ATOM	36838	N	LEU	D	101	135.193	104.558	32.783	1.00	68.76	DS4
ATOM	36839	CA	LEU	D	101	134.728	104.539	34.165	1.00	68.76	DS4
ATOM	36840	CB	LEU	D	101	134.246	103.139	34.517	1.00	59.16	DS4
ATOM	36841	CG	LEU	D	101	133.697	103.023	35.924	1.00	59.16	DS4
ATOM	36842	CD1	LEU	D	101	132.574	104.045	36.085	1.00	59.16	DS4
ATOM	36843	CD2	LEU	D	101	133.186	101.612	36.163	1.00	59.16	DS4
ATOM	36844	C	LEU	D	101	135.831	104.946	35.145	1.00	68.76	DS4
ATOM	36845	O	LEU	D	101	135.648	105.836	35.976	1.00	68.76	DS4
ATOM	36846	N	ASP	D	102	136.976	104.280	35.034	1.00	81.93	DS4
ATOM	36847	CA	ASP	D	102	138.114	104.550	35.896	1.00	81.93	DS4
ATOM	36848	CB	ASP	D	102	139.281	103.594	35.559	1.00	102.38	DS4
ATOM	36849	CG	ASP	D	102	139.923	103.871	34.202	1.00	102.38	DS4
ATOM	36850	OD1	ASP	D	102	139.251	104.426	33.307	1.00	102.38	DS4
ATOM	36851	OD2	ASP	D	102	141.110	103.511	34.027	1.00	102.38	DS4
ATOM	36852	C	ASP	D	102	138.557	106.007	35.811	1.00	81.93	DS4
ATOM	36853	O	ASP	D	102	139.130	106.550	36.755	1.00	81.93	DS4
ATOM	36854	N	ASN	D	103	138.294	106.650	34.681	1.00	76.57	DS4
ATOM	36855	CA	ASN	D	103	138.665	108.048	34.540	1.00	76.57	DS4
ATOM	36856	CB	ASN	D	103	138.658	108.457	33.068	1.00	69.74	DS4
ATOM	36857	CG	ASN	D	103	138.897	109.949	32.873	1.00	69.74	DS4
ATOM	36858	OD1	ASN	D	103	140.007	110.462	33.098	1.00	69.74	DS4
ATOM	36859	ND2	ASN	D	103	137.847	110.658	32.454	1.00	69.74	DS4
ATOM	36860	C	ASN	D	103	137.633	108.860	35.314	1.00	76.57	DS4
ATOM	36861	O	ASN	D	103	137.980	109.680	36.156	1.00	76.57	DS4
ATOM	36862	N	VAL	D	104	136.362	108.609	35.028	1.00	61.38	DS4
ATOM	36863	CA	VAL	D	104	135.273	109.303	35.692	1.00	61.38	DS4
ATOM	36864	CB	VAL	D	104	133.945	108.710	35.298	1.00	46.23	DS4
ATOM	36865	CG1	VAL	D	104	132.835	109.439	36.024	1.00	46.23	DS4
ATOM	36866	CG2	VAL	D	104	133.773	108.802	33.798	1.00	46.23	DS4
ATOM	36867	C	VAL	D	104	135.389	109.227	37.208	1.00	61.38	DS4
ATOM	36868	O	VAL	D	104	135.286	110.239	37.904	1.00	61.38	DS4
ATOM	36869	N	VAL	D	105	135.571	108.022	37.728	1.00	62.24	DS4
ATOM	36870	CA	VAL	D	105	135.733	107.861	39.161	1.00	62.24	DS4
ATOM	36871	CB	VAL	D	105	136.200	106.422	39.491	1.00	62.45	DS4
ATOM	36872	CG1	VAL	D	105	136.647	106.321	40.932	1.00	62.45	DS4

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ATOM	36873	CG2	VAL	D	105	135.062	105.445	39.238	1.00	62.45	DS4
ATOM	36874	C	VAL	D	105	136.778	108.894	39.616	1.00	62.24	DS4
ATOM	36875	O	VAL	D	105	136.622	109.538	40.645	1.00	62.24	DS4
ATOM	36876	N	TYR	D	106	137.835	109.066	38.833	1.00	73.72	DS4
ATOM	36877	CA	TYR	D	106	138.874	110.038	39.167	1.00	73.72	DS4
ATOM	36878	CB	TYR	D	106	140.084	109.867	38.253	1.00	81.68	DS4
ATOM	36879	CG	TYR	D	106	141.040	111.039	38.315	1.00	81.68	DS4
ATOM	36880	CD1	TYR	D	106	141.849	111.234	39.430	1.00	81.68	DS4
ATOM	36881	CE1	TYR	D	106	142.704	112.327	39.516	1.00	81.68	DS4
ATOM	36882	CD2	TYR	D	106	141.107	111.969	37.275	1.00	81.68	DS4
ATOM	36883	CE2	TYR	D	106	141.958	113.070	37.347	1.00	81.68	DS4
ATOM	36884	CZ	TYR	D	106	142.755	113.248	38.476	1.00	81.68	DS4
ATOM	36885	OH	TYR	D	106	143.574	114.360	38.603	1.00	81.68	DS4
ATOM	36886	C	TYR	D	106	138.373	111.472	39.019	1.00	73.72	DS4
ATOM	36887	O	TYR	D	106	138.641	112.327	39.862	1.00	73.72	DS4
ATOM	36888	N	ARG	D	107	137.674	111.730	37.919	1.00	96.00	DS4
ATOM	36889	CA	ARG	D	107	137.128	113.048	37.632	1.00	96.00	DS4
ATOM	36890	CB	ARG	D	107	136.518	113.080	36.220	1.00	75.98	DS4
ATOM	36891	CG	ARG	D	107	137.507	113.244	35.060	1.00	75.98	DS4
ATOM	36892	CD	ARG	D	107	137.574	114.699	34.602	1.00	75.98	DS4
ATOM	36893	NE	ARG	D	107	138.356	114.900	33.380	1.00	75.98	DS4
ATOM	36894	CZ	ARG	D	107	139.674	115.080	33.339	1.00	75.98	DS4
ATOM	36895	NH1	ARG	D	107	140.392	115.091	34.452	1.00	75.98	DS4
ATOM	36896	NH2	ARG	D	107	140.280	115.248	32.174	1.00	75.98	DS4
ATOM	36897	C	ARG	D	107	136.059	113.434	38.649	1.00	96.00	DS4
ATOM	36898	O	ARG	D	107	135.567	114.561	38.625	1.00	96.00	DS4
ATOM	36899	N	LEU	D	108	135.696	112.507	39.535	1.00	97.10	DS4
ATOM	36900	CA	LEU	D	108	134.675	112.780	40.548	1.00	97.10	DS4
ATOM	36901	CB	LEU	D	108	133.601	111.708	40.527	1.00	48.84	DS4
ATOM	36902	CG	LEU	D	108	132.657	111.814	39.342	1.00	48.84	DS4
ATOM	36903	CD1	LEU	D	108	131.511	110.803	39.518	1.00	48.84	DS4
ATOM	36904	CD2	LEU	D	108	132.118	113.240	39.256	1.00	48.84	DS4
ATOM	36905	C	LEU	D	108	135.165	112.921	41.979	1.00	97.10	DS4
ATOM	36906	O	LEU	D	108	134.359	113.105	42.890	1.00	97.10	DS4
ATOM	36907	N	GLY	D	109	136.474	112.828	42.182	1.00	86.60	DS4
ATOM	36908	CA	GLY	D	109	137.013	112.957	43.521	1.00	86.60	DS4
ATOM	36909	C	GLY	D	109	137.043	111.659	44.303	1.00	86.60	DS4
ATOM	36910	O	GLY	D	109	137.659	111.588	45.365	1.00	86.60	DS4
ATOM	36911	N	PHE	D	110	136.378	110.629	43.797	1.00	70.09	DS4
ATOM	36912	CA	PHE	D	110	136.381	109.361	44.498	1.00	70.09	DS4
ATOM	36913	CB	PHE	D	110	135.566	108.329	43.737	1.00	61.59	DS4
ATOM	36914	CG	PHE	D	110	134.139	108.717	43.554	1.00	61.59	DS4
ATOM	36915	CD1	PHE	D	110	133.622	109.839	44.201	1.00	61.59	DS4
ATOM	36916	CD2	PHE	D	110	133.303	107.972	42.735	1.00	61.59	DS4
ATOM	36917	CE1	PHE	D	110	132.279	110.219	44.029	1.00	61.59	DS4
ATOM	36918	CE2	PHE	D	110	131.964	108.330	42.551	1.00	61.59	DS4
ATOM	36919	CZ	PHE	D	110	131.447	109.456	43.197	1.00	61.59	DS4
ATOM	36920	C	PHE	D	110	137.817	108.901	44.643	1.00	70.09	DS4
ATOM	36921	O	PHE	D	110	138.248	108.520	45.737	1.00	70.09	DS4
ATOM	36922	N	ALA	D	111	138.569	108.949	43.547	1.00	54.98	DS4
ATOM	36923	CA	ALA	D	111	139.968	108.546	43.601	1.00	54.98	DS4
ATOM	36924	CB	ALA	D	111	140.298	107.627	42.460	1.00	111.68	DS4
ATOM	36925	C	ALA	D	111	140.878	109.763	43.569	1.00	54.98	DS4
ATOM	36926	O	ALA	D	111	140.605	110.751	42.881	1.00	54.98	DS4
ATOM	36927	N	VAL	D	112	141.953	109.682	44.341	1.00	72.54	DS4
ATOM	36928	CA	VAL	D	112	142.929	110.753	44.423	1.00	72.54	DS4
ATOM	36929	CB	VAL	D	112	144.050	110.419	45.415	1.00	87.22	DS4
ATOM	36930	CG1	VAL	D	112	145.104	111.507	45.375	1.00	87.22	DS4
ATOM	36931	CG2	VAL	D	112	143.487	110.255	46.815	1.00	87.22	DS4
ATOM	36932	C	VAL	D	112	143.577	110.909	43.069	1.00	72.54	DS4
ATOM	36933	O	VAL	D	112	143.715	112.020	42.559	1.00	72.54	DS4
ATOM	36934	N	SER	D	113	143.974	109.774	42.499	1.00	91.58	DS4
ATOM	36935	CA	SER	D	113	144.646	109.735	41.206	1.00	91.58	DS4
ATOM	36936	CB	SER	D	113	146.062	109.184	41.374	1.00	152.23	DS4
ATOM	36937	OG	SER	D	113	146.018	107.815	41.757	1.00	65.96	DS4
ATOM	36938	C	SER	D	113	143.921	108.876	40.177	1.00	91.58	DS4
ATOM	36939	O	SER	D	113	142.893	108.253	40.462	1.00	91.58	DS4
ATOM	36940	N	ARG	D	114	144.491	108.851	38.976	1.00	75.61	DS4
ATOM	36941	CA	ARG	D	114	143.956	108.073	37.874	1.00	75.61	DS4
ATOM	36942	CB	ARG	D	114	144.704	108.422	36.584	1.00	79.23	DS4
ATOM	36943	CG	ARG	D	114	144.147	109.629	35.831	1.00	79.23	DS4
ATOM	36944	CD	ARG	D	114	143.028	109.182	34.888	1.00	79.23	DS4
ATOM	36945	NE	ARG	D	114	142.299	110.284	34.257	1.00	79.23	DS4
ATOM	36946	CZ	ARG	D	114	142.865	111.354	33.709	1.00	79.23	DS4
ATOM	36947	NH1	ARG	D	114	144.188	111.491	33.711	1.00	79.23	DS4
ATOM	36948	NH2	ARG	D	114	142.096	112.283	33.150	1.00	79.23	DS4
ATOM	36949	C	ARG	D	114	144.136	106.603	38.200	1.00	75.61	DS4

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ATOM	36950	O	ARG	D	114	143.180	105.824	38.172	1.00	75.61	DS4
ATOM	36951	N	ARG	D	115	145.372	106.235	38.528	1.00	87.86	DS4
ATOM	36952	CA	ARG	D	115	145.710	104.851	38.856	1.00	87.86	DS4
ATOM	36953	CB	ARG	D	115	147.187	104.760	39.252	1.00111.30		DS4
ATOM	36954	CG	ARG	D	115	148.119	105.683	38.460	1.00111.30		DS4
ATOM	36955	CD	ARG	D	115	149.590	105.406	38.788	1.00111.30		DS4
ATOM	36956	NE	ARG	D	115	150.116	104.273	38.024	1.00111.30		DS4
ATOM	36957	CZ	ARG	D	115	151.273	103.666	38.277	1.00111.30		DS4
ATOM	36958	NH1	ARG	D	115	152.028	104.076	39.284	1.00111.30		DS4
ATOM	36959	NH2	ARG	D	115	151.685	102.659	37.511	1.00111.30		DS4
ATOM	36960	C	ARG	D	115	144.828	104.308	39.986	1.00	87.86	DS4
ATOM	36961	O	ARG	D	115	144.306	103.191	39.910	1.00	87.86	DS4
ATOM	36962	N	GLN	D	116	144.658	105.114	41.028	1.00	79.77	DS4
ATOM	36963	CA	GLN	D	116	143.845	104.732	42.174	1.00	79.77	DS4
ATOM	36964	CB	GLN	D	116	143.903	105.830	43.218	1.00	82.13	DS4
ATOM	36965	CG	GLN	D	116	143.295	105.452	44.528	1.00	82.13	DS4
ATOM	36966	CD	GLN	D	116	143.443	106.555	45.524	1.00	82.13	DS4
ATOM	36967	OE1	GLN	D	116	142.509	107.316	45.768	1.00	82.13	DS4
ATOM	36968	NE2	GLN	D	116	144.634	106.675	46.092	1.00	82.13	DS4
ATOM	36969	C	GLN	D	116	142.390	104.467	41.798	1.00	79.77	DS4
ATOM	36970	O	GLN	D	116	141.777	103.507	42.271	1.00	79.77	DS4
ATOM	36971	N	ALA	D	117	141.835	105.331	40.956	1.00	79.57	DS4
ATOM	36972	CA	ALA	D	117	140.454	105.168	40.513	1.00	79.57	DS4
ATOM	36973	CB	ALA	D	117	140.066	106.289	39.546	1.00	54.10	DS4
ATOM	36974	C	ALA	D	117	140.322	103.819	39.826	1.00	79.57	DS4
ATOM	36975	O	ALA	D	117	139.281	103.156	39.923	1.00	79.57	DS4
ATOM	36976	N	ARG	D	118	141.388	103.419	39.135	1.00	82.25	DS4
ATOM	36977	CA	ARG	D	118	141.390	102.146	38.432	1.00	82.25	DS4
ATOM	36978	CB	ARG	D	118	142.686	101.967	37.635	1.00	86.79	DS4
ATOM	36979	CG	ARG	D	118	142.628	100.822	36.617	1.00	86.79	DS4
ATOM	36980	CD	ARG	D	118	144.014	100.473	36.072	1.00	86.79	DS4
ATOM	36981	NE	ARG	D	118	143.968	99.392	35.093	1.00	86.79	DS4
ATOM	36982	CZ	ARG	D	118	143.575	99.546	33.837	1.00	86.79	DS4
ATOM	36983	NH1	ARG	D	118	143.551	98.508	33.012	1.00	86.79	DS4
ATOM	36984	NH2	ARG	D	118	143.222	100.747	33.404	1.00	86.79	DS4
ATOM	36985	C	ARG	D	118	141.237	101.006	39.432	1.00	82.25	DS4
ATOM	36986	O	ARG	D	118	140.409	100.111	39.242	1.00	82.25	DS4
ATOM	36987	N	GLN	D	119	142.025	101.044	40.502	1.00	76.33	DS4
ATOM	36988	CA	GLN	D	119	141.948	100.000	41.515	1.00	76.33	DS4
ATOM	36989	CB	GLN	D	119	143.012	100.204	42.588	1.00	81.62	DS4
ATOM	36990	CG	GLN	D	119	143.148	99.023	43.523	1.00	81.62	DS4
ATOM	36991	CD	GLN	D	119	144.373	99.116	44.408	1.00	81.62	DS4
ATOM	36992	OE1	GLN	D	119	144.471	99.993	45.272	1.00	81.62	DS4
ATOM	36993	NE2	GLN	D	119	145.322	98.211	44.192	1.00	81.62	DS4
ATOM	36994	C	GLN	D	119	140.569	99.997	42.154	1.00	76.33	DS4
ATOM	36995	O	GLN	D	119	139.982	98.943	42.387	1.00	76.33	DS4
ATOM	36996	N	LEU	D	120	140.043	101.178	42.438	1.00	69.53	DS4
ATOM	36997	CA	LEU	D	120	138.722	101.256	43.032	1.00	69.53	DS4
ATOM	36998	CB	LEU	D	120	138.316	102.713	43.199	1.00	76.70	DS4
ATOM	36999	CG	LEU	D	120	138.943	103.310	44.452	1.00	76.70	DS4
ATOM	37000	CD1	LEU	D	120	138.749	104.817	44.482	1.00	76.70	DS4
ATOM	37001	CD2	LEU	D	120	138.307	102.641	45.660	1.00	76.70	DS4
ATOM	37002	C	LEU	D	120	137.691	100.511	42.191	1.00	69.53	DS4
ATOM	37003	O	LEU	D	120	136.972	99.656	42.701	1.00	69.53	DS4
ATOM	37004	N	VAL	D	121	137.625	100.841	40.905	1.00	71.90	DS4
ATOM	37005	CA	VAL	D	121	136.692	100.200	39.976	1.00	71.90	DS4
ATOM	37006	CB	VAL	D	121	136.864	100.783	38.549	1.00	83.83	DS4
ATOM	37007	CG1	VAL	D	121	136.133	99.918	37.531	1.00	83.83	DS4
ATOM	37008	CG2	VAL	D	121	136.339	102.220	38.506	1.00	83.83	DS4
ATOM	37009	C	VAL	D	121	136.947	98.695	39.936	1.00	71.90	DS4
ATOM	37010	O	VAL	D	121	136.015	97.879	39.960	1.00	71.90	DS4
ATOM	37011	N	ARG	D	122	138.230	98.356	39.874	1.00	67.45	DS4
ATOM	37012	CA	ARG	D	122	138.708	96.980	39.841	1.00	67.45	DS4
ATOM	37013	CB	ARG	D	122	140.231	96.987	39.831	1.00	84.28	DS4
ATOM	37014	CG	ARG	D	122	140.871	96.338	38.639	1.00	84.28	DS4
ATOM	37015	CD	ARG	D	122	140.628	94.855	38.603	1.00	84.28	DS4
ATOM	37016	NE	ARG	D	122	139.434	94.525	37.843	1.00	84.28	DS4
ATOM	37017	CZ	ARG	D	122	139.194	93.319	37.336	1.00	84.28	DS4
ATOM	37018	NH1	ARG	D	122	140.068	92.332	37.510	1.00	84.28	DS4
ATOM	37019	NH2	ARG	D	122	138.082	93.100	36.644	1.00	84.28	DS4
ATOM	37020	C	ARG	D	122	138.234	96.170	41.055	1.00	67.45	DS4
ATOM	37021	O	ARG	D	122	137.608	95.117	40.906	1.00	67.45	DS4
ATOM	37022	N	HIS	D	123	138.548	96.673	42.250	1.00	75.17	DS4
ATOM	37023	CA	HIS	D	123	138.191	96.018	43.502	1.00	75.17	DS4
ATOM	37024	CB	HIS	D	123	139.035	96.585	44.638	1.00	77.29	DS4
ATOM	37025	CG	HIS	D	123	140.480	96.210	44.553	1.00	77.29	DS4
ATOM	37026	CD2	HIS	D	123	141.580	96.744	45.136	1.00	77.29	DS4

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ATOM	37027	ND1	HIS	D	123	140.921	95.130	43.822	1.00	77.29	DS4
ATOM	37028	CE1	HIS	D	123	142.231	95.014	43.959	1.00	77.29	DS4
ATOM	37029	NE2	HIS	D	123	142.655	95.981	44.752	1.00	77.29	DS4
ATOM	37030	C	HIS	D	123	136.717	96.026	43.917	1.00	75.17	DS4
ATOM	37031	O	HIS	D	123	136.397	95.683	45.049	1.00	75.17	DS4
ATOM	37032	N	GLY	D	124	135.821	96.418	43.020	1.00	91.37	DS4
ATOM	37033	CA	GLY	D	124	134.402	96.395	43.346	1.00	91.37	DS4
ATOM	37034	C	GLY	D	124	133.775	97.584	44.048	1.00	91.37	DS4
ATOM	37035	O	GLY	D	124	132.548	97.683	44.098	1.00	91.37	DS4
ATOM	37036	N	HIS	D	125	134.598	98.487	44.574	1.00	77.61	DS4
ATOM	37037	CA	HIS	D	125	134.099	99.664	45.287	1.00	77.61	DS4
ATOM	37038	CB	HIS	D	125	135.267	100.431	45.908	1.00	87.16	DS4
ATOM	37039	CG	HIS	D	125	136.207	99.566	46.684	1.00	87.16	DS4
ATOM	37040	CD2	HIS	D	125	137.529	99.316	46.523	1.00	87.16	DS4
ATOM	37041	ND1	HIS	D	125	135.803	98.814	47.764	1.00	87.16	DS4
ATOM	37042	CE1	HIS	D	125	136.835	98.135	48.235	1.00	87.16	DS4
ATOM	37043	NE2	HIS	D	125	137.894	98.422	47.500	1.00	87.16	DS4
ATOM	37044	C	HIS	D	125	133.264	100.645	44.455	1.00	77.61	DS4
ATOM	37045	O	HIS	D	125	132.829	101.674	44.975	1.00	77.61	DS4
ATOM	37046	N	ILE	D	126	133.020	100.346	43.182	1.00	80.62	DS4
ATOM	37047	CA	ILE	D	126	132.251	101.280	42.366	1.00	80.62	DS4
ATOM	37048	CB	ILE	D	126	133.123	101.861	41.249	1.00	69.83	DS4
ATOM	37049	CG2	ILE	D	126	132.351	102.940	40.491	1.00	69.83	DS4
ATOM	37050	CG1	ILE	D	126	134.406	102.451	41.861	1.00	69.83	DS4
ATOM	37051	CD1	ILE	D	126	134.185	103.611	42.828	1.00	69.83	DS4
ATOM	37052	C	ILE	D	126	130.958	100.744	41.764	1.00	80.62	DS4
ATOM	37053	O	ILE	D	126	130.843	99.559	41.440	1.00	80.62	DS4
ATOM	37054	N	THR	D	127	129.996	101.652	41.616	1.00	88.78	DS4
ATOM	37055	CA	THR	D	127	128.666	101.357	41.089	1.00	88.78	DS4
ATOM	37056	CB	THR	D	127	127.596	101.707	42.152	1.00	111.65	DS4
ATOM	37057	OG1	THR	D	127	127.095	100.498	42.728	1.00	111.65	DS4
ATOM	37058	CG2	THR	D	127	126.441	102.530	41.546	1.00	111.65	DS4
ATOM	37059	C	THR	D	127	128.335	102.134	39.819	1.00	88.78	DS4
ATOM	37060	O	THR	D	127	128.996	103.111	39.491	1.00	88.78	DS4
ATOM	37061	N	VAL	D	128	127.302	101.691	39.114	1.00	73.47	DS4
ATOM	37062	CA	VAL	D	128	126.834	102.358	37.904	1.00	73.47	DS4
ATOM	37063	CB	VAL	D	128	127.592	101.885	36.628	1.00	81.07	DS4
ATOM	37064	CG1	VAL	D	128	126.912	102.449	35.381	1.00	81.07	DS4
ATOM	37065	CG2	VAL	D	128	129.049	102.345	36.672	1.00	81.07	DS4
ATOM	37066	C	VAL	D	128	125.365	101.984	37.780	1.00	73.47	DS4
ATOM	37067	O	VAL	D	128	125.033	100.875	37.362	1.00	73.47	DS4
ATOM	37068	N	ASN	D	129	124.491	102.911	38.155	1.00	82.29	DS4
ATOM	37069	CA	ASN	D	129	123.052	102.671	38.115	1.00	82.29	DS4
ATOM	37070	CB	ASN	D	129	122.568	102.321	36.703	1.00	88.57	DS4
ATOM	37071	CG	ASN	D	129	123.223	103.157	35.634	1.00	88.57	DS4
ATOM	37072	OD1	ASN	D	129	123.796	104.209	35.920	1.00	88.57	DS4
ATOM	37073	ND2	ASN	D	129	123.133	102.698	34.384	1.00	88.57	DS4
ATOM	37074	C	ASN	D	129	122.778	101.478	39.007	1.00	82.29	DS4
ATOM	37075	O	ASN	D	129	121.909	100.662	38.701	1.00	82.29	DS4
ATOM	37076	N	GLY	D	130	123.521	101.365	40.103	1.00	97.38	DS4
ATOM	37077	CA	GLY	D	130	123.329	100.230	40.985	1.00	97.38	DS4
ATOM	37078	C	GLY	D	130	124.360	99.162	40.671	1.00	97.38	DS4
ATOM	37079	O	GLY	D	130	125.458	99.203	41.220	1.00	97.38	DS4
ATOM	37080	N	ARG	D	131	124.031	98.223	39.782	1.00	89.44	DS4
ATOM	37081	CA	ARG	D	131	124.966	97.153	39.419	1.00	89.44	DS4
ATOM	37082	CB	ARG	D	131	124.694	96.636	38.001	1.00	155.28	DS4
ATOM	37083	CG	ARG	D	131	123.426	95.820	37.850	1.00	155.28	DS4
ATOM	37084	CD	ARG	D	131	122.204	96.704	37.675	1.00	155.28	DS4
ATOM	37085	NE	ARG	D	131	120.975	95.913	37.604	1.00	155.28	DS4
ATOM	37086	CZ	ARG	D	131	119.787	96.390	37.231	1.00	155.28	DS4
ATOM	37087	NH1	ARG	D	131	119.655	97.665	36.885	1.00	155.28	DS4
ATOM	37088	NH2	ARG	D	131	118.726	95.590	37.206	1.00	155.28	DS4
ATOM	37089	C	ARG	D	131	126.415	97.621	39.499	1.00	89.44	DS4
ATOM	37090	O	ARG	D	131	126.747	98.714	39.035	1.00	89.44	DS4
ATOM	37091	N	ARG	D	132	127.277	96.808	40.099	1.00	81.22	DS4
ATOM	37092	CA	ARG	D	132	128.679	97.185	40.190	1.00	81.22	DS4
ATOM	37093	CB	ARG	D	132	129.376	96.475	41.351	1.00	119.26	DS4
ATOM	37094	CG	ARG	D	132	129.674	95.012	41.122	1.00	119.26	DS4
ATOM	37095	CD	ARG	D	132	130.796	94.567	42.046	1.00	119.26	DS4
ATOM	37096	NE	ARG	D	132	130.902	93.114	42.127	1.00	119.26	DS4
ATOM	37097	CZ	ARG	D	132	129.961	92.328	42.643	1.00	119.26	DS4
ATOM	37098	NH1	ARG	D	132	128.844	92.855	43.124	1.00	119.26	DS4
ATOM	37099	NH2	ARG	D	132	130.135	91.014	42.682	1.00	119.26	DS4
ATOM	37100	C	ARG	D	132	129.384	96.838	38.883	1.00	81.22	DS4
ATOM	37101	O	ARG	D	132	129.008	95.898	38.184	1.00	81.22	DS4
ATOM	37102	N	VAL	D	133	130.413	97.604	38.558	1.00	72.56	DS4
ATOM	37103	CA	VAL	D	133	131.159	97.394	37.330	1.00	72.56	DS4

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ATOM	37104	CB	VAL	D	133	130.781	98.473	36.311	1.00	55.25	DS4
ATOM	37105	CG1	VAL	D	133	131.627	98.331	35.062	1.00	55.25	DS4
ATOM	37106	CG2	VAL	D	133	129.297	98.373	35.992	1.00	55.25	DS4
ATOM	37107	C	VAL	D	133	132.663	97.455	37.604	1.00	72.56	DS4
ATOM	37108	O	VAL	D	133	133.230	98.544	37.676	1.00	72.56	DS4
ATOM	37109	N	ASP	D	134	133.303	96.294	37.745	1.00	70.56	DS4
ATOM	37110	CA	ASP	D	134	134.737	96.231	38.036	1.00	70.56	DS4
ATOM	37111	CB	ASP	D	134	135.080	94.941	38.793	1.00	115.85	DS4
ATOM	37112	CG	ASP	D	134	134.623	93.682	38.061	1.00	115.85	DS4
ATOM	37113	OD1	ASP	D	134	133.399	93.477	37.924	1.00	115.85	DS4
ATOM	37114	OD2	ASP	D	134	135.486	92.891	37.625	1.00	115.85	DS4
ATOM	37115	C	ASP	D	134	135.618	96.327	36.802	1.00	70.56	DS4
ATOM	37116	O	ASP	D	134	136.773	95.898	36.832	1.00	70.56	DS4
ATOM	37117	N	LEU	D	135	135.080	96.903	35.731	1.00	80.66	DS4
ATOM	37118	CA	LEU	D	135	135.815	97.046	34.478	1.00	80.66	DS4
ATOM	37119	CB	LEU	D	135	134.938	96.587	33.328	1.00	57.93	DS4
ATOM	37120	CG	LEU	D	135	134.432	95.204	33.680	1.00	57.93	DS4
ATOM	37121	CD1	LEU	D	135	133.325	94.828	32.738	1.00	57.93	DS4
ATOM	37122	CD2	LEU	D	135	135.600	94.214	33.651	1.00	57.93	DS4
ATOM	37123	C	LEU	D	135	136.266	98.470	34.237	1.00	80.66	DS4
ATOM	37124	O	LEU	D	135	135.498	99.311	33.781	1.00	80.66	DS4
ATOM	37125	N	PRO	D	136	137.535	98.751	34.518	1.00	64.82	DS4
ATOM	37126	CD	PRO	D	136	138.594	97.783	34.821	1.00	67.03	DS4
ATOM	37127	CA	PRO	D	136	138.090	100.092	34.334	1.00	64.82	DS4
ATOM	37128	CB	PRO	D	136	139.584	99.889	34.555	1.00	67.03	DS4
ATOM	37129	CG	PRO	D	136	139.642	98.673	35.430	1.00	67.03	DS4
ATOM	37130	C	PRO	D	136	137.803	100.614	32.942	1.00	64.82	DS4
ATOM	37131	O	PRO	D	136	137.562	101.798	32.752	1.00	64.82	DS4
ATOM	37132	N	SER	D	137	137.822	99.719	31.965	1.00	65.07	DS4
ATOM	37133	CA	SER	D	137	137.586	100.105	30.591	1.00	65.07	DS4
ATOM	37134	CB	SER	D	137	138.095	99.005	29.667	1.00	108.28	DS4
ATOM	37135	OG	SER	D	137	137.413	97.791	29.927	1.00	108.28	DS4
ATOM	37136	C	SER	D	137	136.122	100.381	30.283	1.00	65.07	DS4
ATOM	37137	O	SER	D	137	135.788	100.676	29.140	1.00	65.07	DS4
ATOM	37138	N	TYR	D	138	135.248	100.295	31.285	1.00	66.62	DS4
ATOM	37139	CA	TYR	D	138	133.808	100.512	31.067	1.00	66.62	DS4
ATOM	37140	CB	TYR	D	138	133.038	100.319	32.371	1.00	71.30	DS4
ATOM	37141	CG	TYR	D	138	131.529	100.336	32.219	1.00	71.30	DS4
ATOM	37142	CD1	TYR	D	138	130.828	99.188	31.846	1.00	71.30	DS4
ATOM	37143	CE1	TYR	D	138	129.430	99.193	31.738	1.00	71.30	DS4
ATOM	37144	CD2	TYR	D	138	130.801	101.493	32.476	1.00	71.30	DS4
ATOM	37145	CE2	TYR	D	138	129.408	101.511	32.368	1.00	71.30	DS4
ATOM	37146	CZ	TYR	D	138	128.730	100.361	32.002	1.00	71.30	DS4
ATOM	37147	OH	TYR	D	138	127.355	100.389	31.906	1.00	71.30	DS4
ATOM	37148	C	TYR	D	138	133.470	101.887	30.493	1.00	66.62	DS4
ATOM	37149	O	TYR	D	138	133.922	102.923	31.000	1.00	66.62	DS4
ATOM	37150	N	ARG	D	139	132.660	101.906	29.442	1.00	76.90	DS4
ATOM	37151	CA	ARG	D	139	132.312	103.180	28.835	1.00	76.90	DS4
ATOM	37152	CB	ARG	D	139	132.044	103.026	27.343	1.00	70.20	DS4
ATOM	37153	CG	ARG	D	139	131.624	104.327	26.694	1.00	70.20	DS4
ATOM	37154	CD	ARG	D	139	131.850	104.278	25.212	1.00	70.20	DS4
ATOM	37155	NE	ARG	D	139	133.261	104.057	24.918	1.00	70.20	DS4
ATOM	37156	CZ	ARG	D	139	133.745	103.926	23.690	1.00	70.20	DS4
ATOM	37157	NH1	ARG	D	139	132.927	104.002	22.650	1.00	70.20	DS4
ATOM	37158	NH2	ARG	D	139	135.038	103.699	23.502	1.00	70.20	DS4
ATOM	37159	C	ARG	D	139	131.111	103.819	29.476	1.00	76.90	DS4
ATOM	37160	O	ARG	D	139	129.973	103.459	29.184	1.00	76.90	DS4
ATOM	37161	N	VAL	D	140	131.369	104.783	30.342	1.00	69.23	DS4
ATOM	37162	CA	VAL	D	140	130.294	105.483	31.021	1.00	69.23	DS4
ATOM	37163	CB	VAL	D	140	130.857	106.361	32.141	1.00	66.62	DS4
ATOM	37164	CG1	VAL	D	140	129.725	107.055	32.864	1.00	66.62	DS4
ATOM	37165	CG2	VAL	D	140	131.712	105.518	33.084	1.00	66.62	DS4
ATOM	37166	C	VAL	D	140	129.544	106.379	30.037	1.00	69.23	DS4
ATOM	37167	O	VAL	D	140	130.127	107.311	29.486	1.00	69.23	DS4
ATOM	37168	N	ARG	D	141	128.264	106.103	29.805	1.00	81.19	DS4
ATOM	37169	CA	ARG	D	141	127.479	106.934	28.891	1.00	81.19	DS4
ATOM	37170	CB	ARG	D	141	126.338	106.138	28.268	1.00	126.42	DS4
ATOM	37171	CG	ARG	D	141	126.722	104.858	27.600	1.00	126.42	DS4
ATOM	37172	CD	ARG	D	141	125.467	104.271	27.025	1.00	126.42	DS4
ATOM	37173	NE	ARG	D	141	125.535	102.823	26.893	1.00	126.42	DS4
ATOM	37174	CZ	ARG	D	141	124.495	102.065	26.557	1.00	126.42	DS4
ATOM	37175	NH1	ARG	D	141	123.315	102.628	26.322	1.00	126.42	DS4
ATOM	37176	NH2	ARG	D	141	124.632	100.745	26.453	1.00	126.42	DS4
ATOM	37177	C	ARG	D	141	126.867	108.123	29.642	1.00	81.19	DS4
ATOM	37178	O	ARG	D	141	126.964	108.212	30.866	1.00	81.19	DS4
ATOM	37179	N	PRO	D	142	126.254	109.071	28.910	1.00	82.85	DS4
ATOM	37180	CD	PRO	D	142	126.494	109.417	27.501	1.00	80.07	DS4

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ATOM	37181	CA	PRO	D	142	125.649	110.207	29.603	1.00	82.85	DS4
ATOM	37182	CB	PRO	D	142	125.404	111.203	28.477	1.00	80.07	DS4
ATOM	37183	CG	PRO	D	142	126.528	110.929	27.558	1.00	80.07	DS4
ATOM	37184	C	PRO	D	142	124.358	109.737	30.261	1.00	82.85	DS4
ATOM	37185	O	PRO	D	142	123.644	108.891	29.718	1.00	82.85	DS4
ATOM	37186	N	GLY	D	143	124.069	110.289	31.431	1.00	77.64	DS4
ATOM	37187	CA	GLY	D	143	122.884	109.891	32.155	1.00	77.64	DS4
ATOM	37188	C	GLY	D	143	123.283	108.954	33.279	1.00	77.64	DS4
ATOM	37189	O	GLY	D	143	122.779	109.054	34.393	1.00	77.64	DS4
ATOM	37190	N	ASP	D	144	124.205	108.044	32.990	1.00	68.67	DS4
ATOM	37191	CA	ASP	D	144	124.663	107.087	33.981	1.00	68.67	DS4
ATOM	37192	CB	ASP	D	144	125.901	106.350	33.483	1.00	109.68	DS4
ATOM	37193	CG	ASP	D	144	125.589	105.367	32.382	1.00	109.68	DS4
ATOM	37194	OD1	ASP	D	144	124.629	104.581	32.545	1.00	109.68	DS4
ATOM	37195	OD2	ASP	D	144	126.309	105.370	31.359	1.00	109.68	DS4
ATOM	37196	C	ASP	D	144	124.997	107.728	35.313	1.00	68.67	DS4
ATOM	37197	O	ASP	D	144	125.672	108.755	35.362	1.00	68.67	DS4
ATOM	37198	N	GLU	D	145	124.509	107.118	36.389	1.00	74.23	DS4
ATOM	37199	CA	GLU	D	145	124.794	107.577	37.742	1.00	74.23	DS4
ATOM	37200	CB	GLU	D	145	123.600	107.346	38.670	1.00	180.85	DS4
ATOM	37201	CG	GLU	D	145	122.657	108.522	38.810	1.00	180.85	DS4
ATOM	37202	CD	GLU	D	145	121.704	108.351	39.977	1.00	180.85	DS4
ATOM	37203	OE1	GLU	D	145	120.896	107.398	39.952	1.00	180.85	DS4
ATOM	37204	OE2	GLU	D	145	121.769	109.164	40.925	1.00	180.85	DS4
ATOM	37205	C	GLU	D	145	125.968	106.736	38.226	1.00	74.23	DS4
ATOM	37206	O	GLU	D	145	125.894	105.506	38.277	1.00	74.23	DS4
ATOM	37207	N	ILE	D	146	127.057	107.395	38.579	1.00	87.53	DS4
ATOM	37208	CA	ILE	D	146	128.232	106.681	39.037	1.00	87.53	DS4
ATOM	37209	CB	ILE	D	146	129.459	107.192	38.297	1.00	67.04	DS4
ATOM	37210	CG2	ILE	D	146	130.712	106.508	38.802	1.00	67.04	DS4
ATOM	37211	CG1	ILE	D	146	129.258	106.938	36.810	1.00	67.04	DS4
ATOM	37212	CD1	ILE	D	146	130.023	107.881	35.946	1.00	67.04	DS4
ATOM	37213	C	ILE	D	146	128.401	106.834	40.537	1.00	87.53	DS4
ATOM	37214	O	ILE	D	146	128.874	107.864	41.025	1.00	87.53	DS4
ATOM	37215	N	ALA	D	147	128.012	105.794	41.265	1.00	94.01	DS4
ATOM	37216	CA	ALA	D	147	128.094	105.821	42.714	1.00	94.01	DS4
ATOM	37217	CB	ALA	D	147	126.739	105.470	43.308	1.00	197.74	DS4
ATOM	37218	C	ALA	D	147	129.155	104.913	43.303	1.00	94.01	DS4
ATOM	37219	O	ALA	D	147	129.805	104.138	42.608	1.00	94.01	DS4
ATOM	37220	N	VAL	D	148	129.318	105.033	44.611	1.00	76.43	DS4
ATOM	37221	CA	VAL	D	148	130.270	104.233	45.348	1.00	76.43	DS4
ATOM	37222	CB	VAL	D	148	130.993	105.095	46.391	1.00	76.21	DS4
ATOM	37223	CG1	VAL	D	148	132.003	104.257	47.170	1.00	76.21	DS4
ATOM	37224	CG2	VAL	D	148	131.675	106.261	45.692	1.00	76.21	DS4
ATOM	37225	C	VAL	D	148	129.485	103.127	46.045	1.00	76.43	DS4
ATOM	37226	O	VAL	D	148	128.395	103.365	46.568	1.00	76.43	DS4
ATOM	37227	N	ALA	D	149	130.035	101.917	46.035	1.00	115.01	DS4
ATOM	37228	CA	ALA	D	149	129.387	100.771	46.660	1.00	115.01	DS4
ATOM	37229	CB	ALA	D	149	130.265	99.541	46.520	1.00	135.34	DS4
ATOM	37230	C	ALA	D	149	129.101	101.037	48.130	1.00	115.01	DS4
ATOM	37231	O	ALA	D	149	129.987	101.455	48.877	1.00	115.01	DS4
ATOM	37232	N	GLU	D	150	127.859	100.793	48.539	1.00	79.78	DS4
ATOM	37233	CA	GLU	D	150	127.452	100.999	49.922	1.00	79.78	DS4
ATOM	37234	CB	GLU	D	150	126.097	100.345	50.189	1.00	147.65	DS4
ATOM	37235	CG	GLU	D	150	125.087	100.529	49.071	1.00	147.65	DS4
ATOM	37236	CD	GLU	D	150	125.539	99.884	47.770	1.00	147.65	DS4
ATOM	37237	OE1	GLU	D	150	125.776	98.655	47.765	1.00	147.65	DS4
ATOM	37238	OE2	GLU	D	150	125.665	100.606	46.755	1.00	147.65	DS4
ATOM	37239	C	GLU	D	150	128.512	100.304	50.740	1.00	79.78	DS4
ATOM	37240	O	GLU	D	150	129.254	100.939	51.493	1.00	79.78	DS4
ATOM	37241	N	LYS	D	151	128.591	98.992	50.545	1.00	73.21	DS4
ATOM	37242	CA	LYS	D	151	129.549	98.155	51.250	1.00	73.21	DS4
ATOM	37243	CB	LYS	D	151	129.644	96.785	50.577	1.00	117.01	DS4
ATOM	37244	CG	LYS	D	151	128.441	95.886	50.803	1.00	117.01	DS4
ATOM	37245	CD	LYS	D	151	127.159	96.459	50.220	1.00	117.01	DS4
ATOM	37246	CE	LYS	D	151	125.989	95.518	50.485	1.00	117.01	DS4
ATOM	37247	NZ	LYS	D	151	124.684	96.047	49.989	1.00	117.01	DS4
ATOM	37248	C	LYS	D	151	130.936	98.781	51.315	1.00	73.21	DS4
ATOM	37249	O	LYS	D	151	131.756	98.410	52.158	1.00	73.21	DS4
ATOM	37250	N	SER	D	152	131.204	99.731	50.426	1.00	93.70	DS4
ATOM	37251	CA	SER	D	152	132.510	100.377	50.387	1.00	93.70	DS4
ATOM	37252	CB	SER	D	152	132.978	100.565	48.932	1.00	87.26	DS4
ATOM	37253	OG	SER	D	152	133.147	99.334	48.246	1.00	87.26	DS4
ATOM	37254	C	SER	D	152	132.484	101.729	51.071	1.00	93.70	DS4
ATOM	37255	O	SER	D	152	133.495	102.166	51.620	1.00	93.70	DS4
ATOM	37256	N	ARG	D	153	131.323	102.382	51.035	1.00	96.97	DS4
ATOM	37257	CA	ARG	D	153	131.153	103.718	51.608	1.00	96.97	DS4

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ATOM	37258	CB	ARG	D	153	129.664	104.065	51.711	1.00114.90	DS4
ATOM	37259	CG	ARG	D	153	129.129	104.650	50.417	1.00114.90	DS4
ATOM	37260	CD	ARG	D	153	127.745	105.267	50.550	1.00114.90	DS4
ATOM	37261	NE	ARG	D	153	126.683	104.268	50.484	1.00114.90	DS4
ATOM	37262	CZ	ARG	D	153	125.573	104.406	49.762	1.00114.90	DS4
ATOM	37263	NH1	ARG	D	153	125.378	105.504	49.037	1.00114.90	DS4
ATOM	37264	NH2	ARG	D	153	124.654	103.444	49.768	1.00114.90	DS4
ATOM	37265	C	ARG	D	153	131.839	104.002	52.937	1.00 96.97	DS4
ATOM	37266	O	ARG	D	153	132.047	105.162	53.292	1.00 96.97	DS4
ATOM	37267	N	ASN	D	154	132.213	102.946	53.652	1.00101.94	DS4
ATOM	37268	CA	ASN	D	154	132.863	103.085	54.947	1.00101.94	DS4
ATOM	37269	CB	ASN	D	154	132.486	101.899	55.826	1.00160.13	DS4
ATOM	37270	CG	ASN	D	154	130.995	101.707	55.914	1.00160.13	DS4
ATOM	37271	OD1	ASN	D	154	130.282	102.548	56.460	1.00160.13	DS4
ATOM	37272	ND2	ASN	D	154	130.509	100.601	55.364	1.00160.13	DS4
ATOM	37273	C	ASN	D	154	134.377	103.183	54.859	1.00101.94	DS4
ATOM	37274	O	ASN	D	154	135.028	103.643	55.795	1.00101.94	DS4
ATOM	37275	N	LEU	D	155	134.936	102.760	53.732	1.00102.62	DS4
ATOM	37276	CA	LEU	D	155	136.384	102.773	53.544	1.00102.62	DS4
ATOM	37277	CB	LEU	D	155	136.729	102.259	52.146	1.00114.21	DS4
ATOM	37278	CG	LEU	D	155	136.468	100.752	52.034	1.00114.21	DS4
ATOM	37279	CD1	LEU	D	155	136.580	100.293	50.597	1.00114.21	DS4
ATOM	37280	CD2	LEU	D	155	137.455	100.009	52.927	1.00114.21	DS4
ATOM	37281	C	LEU	D	155	137.088	104.096	53.813	1.00102.62	DS4
ATOM	37282	O	LEU	D	155	136.764	105.137	53.227	1.00102.62	DS4
ATOM	37283	N	GLU	D	156	138.061	104.019	54.718	1.00 87.06	DS4
ATOM	37284	CA	GLU	D	156	138.879	105.151	55.144	1.00 87.06	DS4
ATOM	37285	CB	GLU	D	156	140.143	104.622	55.821	1.00142.64	DS4
ATOM	37286	CG	GLU	D	156	140.888	105.624	56.677	1.00142.64	DS4
ATOM	37287	CD	GLU	D	156	142.239	105.095	57.129	1.00142.64	DS4
ATOM	37288	OE1	GLU	D	156	143.220	105.219	56.363	1.00142.64	DS4
ATOM	37289	OE2	GLU	D	156	142.318	104.539	58.246	1.00142.64	DS4
ATOM	37290	C	GLU	D	156	139.258	106.013	53.945	1.00 87.06	DS4
ATOM	37291	O	GLU	D	156	139.171	107.246	53.988	1.00 87.06	DS4
ATOM	37292	N	LEU	D	157	139.673	105.339	52.874	1.00 92.76	DS4
ATOM	37293	CA	LEU	D	157	140.081	105.994	51.636	1.00 92.76	DS4
ATOM	37294	CB	LEU	D	157	140.655	104.965	50.660	1.00 99.99	DS4
ATOM	37295	CG	LEU	D	157	141.766	105.456	49.728	1.00 99.99	DS4
ATOM	37296	CD1	LEU	D	157	142.087	104.369	48.713	1.00 99.99	DS4
ATOM	37297	CD2	LEU	D	157	141.343	106.734	49.026	1.00 99.99	DS4
ATOM	37298	C	LEU	D	157	138.921	106.719	50.968	1.00 92.76	DS4
ATOM	37299	O	LEU	D	157	139.060	107.871	50.574	1.00 92.76	DS4
ATOM	37300	N	ILE	D	158	137.782	106.046	50.835	1.00 90.27	DS4
ATOM	37301	CA	ILE	D	158	136.621	106.659	50.203	1.00 90.27	DS4
ATOM	37302	CB	ILE	D	158	135.450	105.694	50.108	1.00119.68	DS4
ATOM	37303	CG2	ILE	D	158	134.288	106.354	49.377	1.00119.68	DS4
ATOM	37304	CG1	ILE	D	158	135.884	104.445	49.357	1.00119.68	DS4
ATOM	37305	CD1	ILE	D	158	134.798	103.403	49.259	1.00119.68	DS4
ATOM	37306	C	ILE	D	158	136.146	107.877	50.969	1.00 90.27	DS4
ATOM	37307	O	ILE	D	158	135.673	108.852	50.370	1.00 90.27	DS4
ATOM	37308	N	ARG	D	159	136.258	107.827	52.292	1.00 80.64	DS4
ATOM	37309	CA	ARG	D	159	135.829	108.963	53.095	1.00 80.64	DS4
ATOM	37310	CB	ARG	D	159	135.609	108.539	54.546	1.00198.84	DS4
ATOM	37311	CG	ARG	D	159	134.495	107.520	54.676	1.00198.84	DS4
ATOM	37312	CD	ARG	D	159	134.008	107.369	56.101	1.00198.84	DS4
ATOM	37313	NE	ARG	D	159	132.957	106.357	56.181	1.00198.84	DS4
ATOM	37314	CZ	ARG	D	159	132.278	106.063	57.285	1.00198.84	DS4
ATOM	37315	NH1	ARG	D	159	132.535	106.707	58.415	1.00198.84	DS4
ATOM	37316	NH2	ARG	D	159	131.344	105.119	57.260	1.00198.84	DS4
ATOM	37317	C	ARG	D	159	136.826	110.117	53.004	1.00 80.64	DS4
ATOM	37318	O	ARG	D	159	136.444	111.234	52.639	1.00 80.64	DS4
ATOM	37319	N	GLN	D	160	138.098	109.847	53.310	1.00 87.92	DS4
ATOM	37320	CA	GLN	D	160	139.133	110.881	53.244	1.00 87.92	DS4
ATOM	37321	CB	GLN	D	160	140.524	110.267	53.420	1.00123.13	DS4
ATOM	37322	CG	GLN	D	160	140.799	109.721	54.813	1.00123.13	DS4
ATOM	37323	CD	GLN	D	160	142.230	109.234	54.977	1.00123.13	DS4
ATOM	37324	OE1	GLN	D	160	143.183	109.992	54.783	1.00123.13	DS4
ATOM	37325	NE2	GLN	D	160	142.387	107.965	55.338	1.00123.13	DS4
ATOM	37326	C	GLN	D	160	139.071	111.629	51.912	1.00 87.92	DS4
ATOM	37327	O	GLN	D	160	139.159	112.860	51.875	1.00 87.92	DS4
ATOM	37328	N	ASN	D	161	138.912	110.869	50.827	1.00 79.26	DS4
ATOM	37329	CA	ASN	D	161	138.822	111.411	49.469	1.00 79.26	DS4
ATOM	37330	CB	ASN	D	161	138.879	110.276	48.445	1.00106.31	DS4
ATOM	37331	CG	ASN	D	161	140.296	109.801	48.173	1.00106.31	DS4
ATOM	37332	OD1	ASN	D	161	141.198	109.951	49.008	1.00106.31	DS4
ATOM	37333	ND2	ASN	D	161	140.497	109.208	47.000	1.00106.31	DS4
ATOM	37334	C	ASN	D	161	137.538	112.197	49.275	1.00 79.26	DS4

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ATOM	37335	O	ASN	D	161	137.571	113.392	48.981	1.00	79.26	DS4
ATOM	37336	N	LEU	D	162	136.400	111.530	49.429	1.00	92.89	DS4
ATOM	37337	CA	LEU	D	162	135.150	112.238	49.264	1.00	92.89	DS4
ATOM	37338	CB	LEU	D	162	133.958	111.287	49.322	1.00	96.27	DS4
ATOM	37339	CG	LEU	D	162	133.454	110.963	47.911	1.00	96.27	DS4
ATOM	37340	CD1	LEU	D	162	132.100	110.298	47.987	1.00	96.27	DS4
ATOM	37341	CD2	LEU	D	162	133.331	112.238	47.095	1.00	96.27	DS4
ATOM	37342	C	LEU	D	162	135.015	113.331	50.308	1.00	92.89	DS4
ATOM	37343	O	LEU	D	162	134.124	114.175	50.214	1.00	92.89	DS4
ATOM	37344	N	GLU	D	163	135.902	113.318	51.301	1.00	98.22	DS4
ATOM	37345	CA	GLU	D	163	135.889	114.346	52.334	1.00	98.22	DS4
ATOM	37346	CB	GLU	D	163	136.794	113.969	53.510	1.00152.44		DS4
ATOM	37347	CG	GLU	D	163	137.039	115.116	54.503	1.00152.44		DS4
ATOM	37348	CD	GLU	D	163	135.756	115.662	55.133	1.00152.44		DS4
ATOM	37349	OE1	GLU	D	163	135.825	116.688	55.844	1.00152.44		DS4
ATOM	37350	OE2	GLU	D	163	134.677	115.066	54.923	1.00152.44		DS4
ATOM	37351	C	GLU	D	163	136.399	115.634	51.705	1.00	98.22	DS4
ATOM	37352	O	GLU	D	163	135.634	116.580	51.491	1.00	98.22	DS4
ATOM	37353	N	ALA	D	164	137.695	115.662	51.405	1.00100.96		DS4
ATOM	37354	CA	ALA	D	164	138.310	116.831	50.784	1.00100.96		DS4
ATOM	37355	CB	ALA	D	164	139.736	116.501	50.343	1.00	85.49	DS4
ATOM	37356	C	ALA	D	164	137.474	117.270	49.583	1.00100.96		DS4
ATOM	37357	O	ALA	D	164	137.588	118.399	49.107	1.00100.96		DS4
ATOM	37358	N	MET	D	165	136.629	116.366	49.102	1.00	86.47	DS4
ATOM	37359	CA	MET	D	165	135.771	116.653	47.965	1.00	86.47	DS4
ATOM	37360	CB	MET	D	165	135.057	115.383	47.506	1.00115.05		DS4
ATOM	37361	CG	MET	D	165	135.741	114.726	46.324	1.00115.05		DS4
ATOM	37362	SD	MET	D	165	136.026	115.921	44.986	1.00115.05		DS4
ATOM	37363	CE	MET	D	165	134.414	115.943	44.168	1.00115.05		DS4
ATOM	37364	C	MET	D	165	134.751	117.755	48.224	1.00	86.47	DS4
ATOM	37365	O	MET	D	165	134.301	118.408	47.280	1.00	86.47	DS4
ATOM	37366	N	LYS	D	166	134.376	117.956	49.487	1.00	99.93	DS4
ATOM	37367	CA	LYS	D	166	133.423	119.013	49.833	1.00	99.93	DS4
ATOM	37368	CB	LYS	D	166	133.177	119.056	51.342	1.00110.17		DS4
ATOM	37369	CG	LYS	D	166	132.738	117.758	51.998	1.00110.17		DS4
ATOM	37370	CD	LYS	D	166	132.782	117.948	53.511	1.00110.17		DS4
ATOM	37371	CE	LYS	D	166	132.375	116.709	54.279	1.00110.17		DS4
ATOM	37372	NZ	LYS	D	166	132.553	116.924	55.743	1.00110.17		DS4
ATOM	37373	C	LYS	D	166	134.070	120.331	49.412	1.00	99.93	DS4
ATOM	37374	O	LYS	D	166	135.212	120.610	49.783	1.00	99.93	DS4
ATOM	37375	N	GLY	D	167	133.356	121.141	48.639	1.00143.47		DS4
ATOM	37376	CA	GLY	D	167	133.932	122.398	48.202	1.00143.47		DS4
ATOM	37377	C	GLY	D	167	134.312	122.366	46.734	1.00143.47		DS4
ATOM	37378	O	GLY	D	167	133.673	123.039	45.926	1.00143.47		DS4
ATOM	37379	N	ARG	D	168	135.343	121.594	46.385	1.00	96.38	DS4
ATOM	37380	CA	ARG	D	168	135.792	121.478	44.992	1.00	96.38	DS4
ATOM	37381	CB	ARG	D	168	136.611	120.201	44.784	1.00116.70		DS4
ATOM	37382	CG	ARG	D	168	137.988	120.118	45.427	1.00116.70		DS4
ATOM	37383	CD	ARG	D	168	138.589	118.773	45.014	1.00116.70		DS4
ATOM	37384	NE	ARG	D	168	139.884	118.448	45.608	1.00116.70		DS4
ATOM	37385	CZ	ARG	D	168	140.522	117.294	45.402	1.00116.70		DS4
ATOM	37386	NH1	ARG	D	168	139.980	116.366	44.621	1.00116.70		DS4
ATOM	37387	NH2	ARG	D	168	141.700	117.060	45.972	1.00116.70		DS4
ATOM	37388	C	ARG	D	168	134.613	121.431	44.011	1.00	96.38	DS4
ATOM	37389	O	ARG	D	168	133.580	120.817	44.298	1.00	96.38	DS4
ATOM	37390	N	LYS	D	169	134.763	122.088	42.861	1.00100.59		DS4
ATOM	37391	CA	LYS	D	169	133.725	122.064	41.834	1.00100.59		DS4
ATOM	37392	CB	LYS	D	169	133.776	123.315	40.954	1.00127.96		DS4
ATOM	37393	CG	LYS	D	169	133.159	124.551	41.578	1.00127.96		DS4
ATOM	37394	CD	LYS	D	169	133.193	125.727	40.609	1.00127.96		DS4
ATOM	37395	CE	LYS	D	169	132.520	126.967	41.201	1.00127.96		DS4
ATOM	37396	NZ	LYS	D	169	132.541	128.148	40.274	1.00127.96		DS4
ATOM	37397	C	LYS	D	169	134.042	120.845	40.989	1.00100.59		DS4
ATOM	37398	O	LYS	D	169	134.986	120.114	41.280	1.00100.59		DS4
ATOM	37399	N	VAL	D	170	133.266	120.618	39.942	1.00102.17		DS4
ATOM	37400	CA	VAL	D	170	133.516	119.472	39.082	1.00102.17		DS4
ATOM	37401	CB	VAL	D	170	132.652	118.263	39.506	1.00100.26		DS4
ATOM	37402	CG1	VAL	D	170	132.719	117.181	38.459	1.00100.26		DS4
ATOM	37403	CG2	VAL	D	170	133.149	117.712	40.827	1.00100.26		DS4
ATOM	37404	C	VAL	D	170	133.220	119.836	37.638	1.00102.17		DS4
ATOM	37405	O	VAL	D	170	132.312	120.621	37.366	1.00102.17		DS4
ATOM	37406	N	GLY	D	171	133.998	119.272	36.718	1.00	81.69	DS4
ATOM	37407	CA	GLY	D	171	133.799	119.551	35.306	1.00	81.69	DS4
ATOM	37408	C	GLY	D	171	132.345	119.797	34.948	1.00	81.69	DS4
ATOM	37409	O	GLY	D	171	131.451	119.123	35.476	1.00	81.69	DS4
ATOM	37410	N	PRO	D	172	132.073	120.758	34.050	1.00	75.61	DS4
ATOM	37411	CD	PRO	D	172	133.053	121.623	33.372	1.00	66.33	DS4

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ATOM	37412	CA	PRO	D	172	130.708	121.088	33.630	1.00	75.61	DS4
ATOM	37413	CB	PRO	D	172	130.910	122.317	32.731	1.00	66.33	DS4
ATOM	37414	CG	PRO	D	172	132.271	122.101	32.164	1.00	66.33	DS4
ATOM	37415	C	PRO	D	172	129.935	119.958	32.939	1.00	75.61	DS4
ATOM	37416	O	PRO	D	172	128.733	120.096	32.666	1.00	75.61	DS4
ATOM	37417	N	TRP	D	173	130.613	118.845	32.657	1.00	77.03	DS4
ATOM	37418	CA	TRP	D	173	129.955	117.704	32.010	1.00	77.03	DS4
ATOM	37419	CB	TRP	D	173	130.860	117.104	30.920	1.00	70.17	DS4
ATOM	37420	CG	TRP	D	173	132.058	116.351	31.423	1.00	70.17	DS4
ATOM	37421	CD2	TRP	D	173	133.327	116.900	31.779	1.00	70.17	DS4
ATOM	37422	CE2	TRP	D	173	134.141	115.828	32.204	1.00	70.17	DS4
ATOM	37423	CE3	TRP	D	173	133.855	118.194	31.782	1.00	70.17	DS4
ATOM	37424	CD1	TRP	D	173	132.149	115.005	31.641	1.00	70.17	DS4
ATOM	37425	NE1	TRP	D	173	133.399	114.683	32.109	1.00	70.17	DS4
ATOM	37426	CZ2	TRP	D	173	135.455	116.010	32.628	1.00	70.17	DS4
ATOM	37427	CZ3	TRP	D	173	135.169	118.377	32.206	1.00	70.17	DS4
ATOM	37428	CH2	TRP	D	173	135.952	117.287	32.623	1.00	70.17	DS4
ATOM	37429	C	TRP	D	173	129.658	116.681	33.097	1.00	77.03	DS4
ATOM	37430	O	TRP	D	173	129.089	115.612	32.856	1.00	77.03	DS4
ATOM	37431	N	LEU	D	174	130.042	117.056	34.310	1.00	97.62	DS4
ATOM	37432	CA	LEU	D	174	129.855	116.231	35.482	1.00	97.62	DS4
ATOM	37433	CB	LEU	D	174	131.206	115.928	36.105	1.00	64.77	DS4
ATOM	37434	CG	LEU	D	174	132.120	115.054	35.262	1.00	64.77	DS4
ATOM	37435	CD1	LEU	D	174	133.421	114.790	36.013	1.00	64.77	DS4
ATOM	37436	CD2	LEU	D	174	131.395	113.754	34.952	1.00	64.77	DS4
ATOM	37437	C	LEU	D	174	128.974	116.919	36.509	1.00	97.62	DS4
ATOM	37438	O	LEU	D	174	128.461	118.013	36.275	1.00	97.62	DS4
ATOM	37439	N	SER	D	175	128.820	116.260	37.654	1.00	91.17	DS4
ATOM	37440	CA	SER	D	175	128.014	116.751	38.764	1.00	91.17	DS4
ATOM	37441	CB	SER	D	175	126.605	117.109	38.288	1.00	93.49	DS4
ATOM	37442	OG	SER	D	175	125.935	115.972	37.770	1.00	93.49	DS4
ATOM	37443	C	SER	D	175	127.926	115.641	39.793	1.00	91.17	DS4
ATOM	37444	O	SER	D	175	127.350	114.589	39.524	1.00	91.17	DS4
ATOM	37445	N	LEU	D	176	128.510	115.857	40.963	1.00	94.78	DS4
ATOM	37446	CA	LEU	D	176	128.453	114.835	41.994	1.00	94.78	DS4
ATOM	37447	CB	LEU	D	176	129.857	114.434	42.461	1.00	64.19	DS4
ATOM	37448	CG	LEU	D	176	130.399	115.028	43.768	1.00	64.19	DS4
ATOM	37449	CD1	LEU	D	176	131.673	114.303	44.201	1.00	64.19	DS4
ATOM	37450	CD2	LEU	D	176	130.658	116.507	43.574	1.00	64.19	DS4
ATOM	37451	C	LEU	D	176	127.652	115.319	43.185	1.00	94.78	DS4
ATOM	37452	O	LEU	D	176	127.638	116.507	43.497	1.00	94.78	DS4
ATOM	37453	N	ASP	D	177	126.982	114.385	43.845	1.00	112.73	DS4
ATOM	37454	CA	ASP	D	177	126.187	114.691	45.018	1.00	112.73	DS4
ATOM	37455	CB	ASP	D	177	124.828	114.009	44.897	1.00	149.49	DS4
ATOM	37456	CG	ASP	D	177	123.930	114.290	46.072	1.00	149.49	DS4
ATOM	37457	OD1	ASP	D	177	124.341	114.011	47.216	1.00	149.49	DS4
ATOM	37458	OD2	ASP	D	177	122.808	114.788	45.851	1.00	149.49	DS4
ATOM	37459	C	ASP	D	177	126.972	114.101	46.177	1.00	112.73	DS4
ATOM	37460	O	ASP	D	177	126.697	112.987	46.600	1.00	112.73	DS4
ATOM	37461	N	VAL	D	178	127.950	114.844	46.688	1.00	72.03	DS4
ATOM	37462	CA	VAL	D	178	128.798	114.345	47.774	1.00	72.03	DS4
ATOM	37463	CB	VAL	D	178	129.735	115.444	48.319	1.00	78.11	DS4
ATOM	37464	CG1	VAL	D	178	130.844	114.812	49.156	1.00	78.11	DS4
ATOM	37465	CG2	VAL	D	178	130.328	116.234	47.181	1.00	78.11	DS4
ATOM	37466	C	VAL	D	178	128.053	113.733	48.965	1.00	72.03	DS4
ATOM	37467	O	VAL	D	178	128.644	113.008	49.771	1.00	72.03	DS4
ATOM	37468	N	GLU	D	179	126.760	114.016	49.076	1.00	133.31	DS4
ATOM	37469	CA	GLU	D	179	125.971	113.472	50.175	1.00	133.31	DS4
ATOM	37470	CB	GLU	D	179	124.519	113.961	50.081	1.00	195.95	DS4
ATOM	37471	CG	GLU	D	179	124.363	115.452	49.801	1.00	195.95	DS4
ATOM	37472	CD	GLU	D	179	125.050	116.328	50.831	1.00	195.95	DS4
ATOM	37473	OE1	GLU	D	179	126.290	116.238	50.965	1.00	195.95	DS4
ATOM	37474	OE2	GLU	D	179	124.350	117.112	51.507	1.00	195.95	DS4
ATOM	37475	C	GLU	D	179	126.001	111.940	50.151	1.00	133.31	DS4
ATOM	37476	O	GLU	D	179	126.768	111.311	50.883	1.00	133.31	DS4
ATOM	37477	N	GLY	D	180	125.163	111.351	49.299	1.00	122.57	DS4
ATOM	37478	CA	GLY	D	180	125.086	109.903	49.188	1.00	122.57	DS4
ATOM	37479	C	GLY	D	180	126.174	109.330	48.309	1.00	122.57	DS4
ATOM	37480	O	GLY	D	180	126.128	108.160	47.925	1.00	122.57	DS4
ATOM	37481	N	MET	D	181	127.149	110.173	47.986	1.00	94.60	DS4
ATOM	37482	CA	MET	D	181	128.281	109.790	47.159	1.00	94.60	DS4
ATOM	37483	CB	MET	D	181	129.060	108.681	47.868	1.00	114.89	DS4
ATOM	37484	CG	MET	D	181	129.429	109.066	49.301	1.00	114.89	DS4
ATOM	37485	SD	MET	D	181	130.217	107.776	50.304	1.00	114.89	DS4
ATOM	37486	CE	MET	D	181	131.897	108.440	50.564	1.00	114.89	DS4
ATOM	37487	C	MET	D	181	127.874	109.370	45.742	1.00	94.60	DS4
ATOM	37488	O	MET	D	181	128.397	108.397	45.200	1.00	94.60	DS4

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ATOM	37489	N	LYS	D	182	126.936	110.113	45.151	1.00	91.89	DS4
ATOM	37490	CA	LYS	D	182	126.469	109.850	43.790	1.00	91.89	DS4
ATOM	37491	CB	LYS	D	182	124.988	110.207	43.622	1.00	108.67	DS4
ATOM	37492	CG	LYS	D	182	124.054	109.689	44.687	1.00	108.67	DS4
ATOM	37493	CD	LYS	D	182	123.869	108.199	44.608	1.00	108.67	DS4
ATOM	37494	CE	LYS	D	182	123.052	107.702	45.794	1.00	108.67	DS4
ATOM	37495	NZ	LYS	D	182	122.947	106.213	45.822	1.00	108.67	DS4
ATOM	37496	C	LYS	D	182	127.275	110.757	42.863	1.00	91.89	DS4
ATOM	37497	O	LYS	D	182	128.234	111.402	43.288	1.00	91.89	DS4
ATOM	37498	N	GLY	D	183	126.853	110.816	41.604	1.00	97.56	DS4
ATOM	37499	CA	GLY	D	183	127.510	111.639	40.601	1.00	97.56	DS4
ATOM	37500	C	GLY	D	183	126.954	111.236	39.250	1.00	97.56	DS4
ATOM	37501	O	GLY	D	183	126.711	110.051	39.024	1.00	97.56	DS4
ATOM	37502	N	LYS	D	184	126.723	112.188	38.353	1.00	76.17	DS4
ATOM	37503	CA	LYS	D	184	126.193	111.829	37.043	1.00	76.17	DS4
ATOM	37504	CB	LYS	D	184	124.811	112.442	36.817	1.00	100.51	DS4
ATOM	37505	CG	LYS	D	184	123.693	111.715	37.511	1.00	100.51	DS4
ATOM	37506	CD	LYS	D	184	122.335	112.079	36.919	1.00	100.51	DS4
ATOM	37507	CE	LYS	D	184	121.225	111.279	37.608	1.00	100.51	DS4
ATOM	37508	NZ	LYS	D	184	119.884	111.389	36.956	1.00	100.51	DS4
ATOM	37509	C	LYS	D	184	127.089	112.213	35.876	1.00	76.17	DS4
ATOM	37510	O	LYS	D	184	127.827	113.202	35.923	1.00	76.17	DS4
ATOM	37511	N	PHE	D	185	127.023	111.405	34.826	1.00	68.50	DS4
ATOM	37512	CA	PHE	D	185	127.795	111.665	33.626	1.00	68.50	DS4
ATOM	37513	CB	PHE	D	185	128.278	110.361	32.993	1.00	66.69	DS4
ATOM	37514	CG	PHE	D	185	129.371	110.562	32.003	1.00	66.69	DS4
ATOM	37515	CD1	PHE	D	185	130.650	110.892	32.433	1.00	66.69	DS4
ATOM	37516	CD2	PHE	D	185	129.103	110.538	30.645	1.00	66.69	DS4
ATOM	37517	CE1	PHE	D	185	131.649	111.209	31.523	1.00	66.69	DS4
ATOM	37518	CE2	PHE	D	185	130.093	110.853	29.729	1.00	66.69	DS4
ATOM	37519	CZ	PHE	D	185	131.371	111.193	30.171	1.00	66.69	DS4
ATOM	37520	C	PHE	D	185	126.811	112.374	32.703	1.00	68.50	DS4
ATOM	37521	O	PHE	D	185	126.028	111.740	31.991	1.00	68.50	DS4
ATOM	37522	N	LEU	D	186	126.864	113.700	32.736	1.00	65.26	DS4
ATOM	37523	CA	LEU	D	186	125.963	114.563	31.974	1.00	65.26	DS4
ATOM	37524	CB	LEU	D	186	126.032	115.961	32.589	1.00	60.49	DS4
ATOM	37525	CG	LEU	D	186	125.601	115.982	34.056	1.00	60.49	DS4
ATOM	37526	CD1	LEU	D	186	126.327	117.050	34.854	1.00	60.49	DS4
ATOM	37527	CD2	LEU	D	186	124.103	116.181	34.064	1.00	60.49	DS4
ATOM	37528	C	LEU	D	186	126.137	114.659	30.456	1.00	65.26	DS4
ATOM	37529	O	LEU	D	186	125.164	114.580	29.705	1.00	65.26	DS4
ATOM	37530	N	ARG	D	187	127.372	114.845	30.011	1.00	85.76	DS4
ATOM	37531	CA	ARG	D	187	127.645	114.979	28.592	1.00	85.76	DS4
ATOM	37532	CB	ARG	D	187	127.302	116.410	28.163	1.00	129.54	DS4
ATOM	37533	CG	ARG	D	187	127.557	116.736	26.707	1.00	129.54	DS4
ATOM	37534	CD	ARG	D	187	126.759	115.832	25.787	1.00	129.54	DS4
ATOM	37535	NE	ARG	D	187	127.337	114.495	25.692	1.00	129.54	DS4
ATOM	37536	CZ	ARG	D	187	126.743	113.464	25.096	1.00	129.54	DS4
ATOM	37537	NH1	ARG	D	187	125.545	113.617	24.544	1.00	129.54	DS4
ATOM	37538	NH2	ARG	D	187	127.345	112.283	25.041	1.00	129.54	DS4
ATOM	37539	C	ARG	D	187	129.118	114.685	28.308	1.00	85.76	DS4
ATOM	37540	O	ARG	D	187	129.976	114.961	29.148	1.00	85.76	DS4
ATOM	37541	N	LEU	D	188	129.413	114.106	27.143	1.00	76.21	DS4
ATOM	37542	CA	LEU	D	188	130.800	113.838	26.768	1.00	76.21	DS4
ATOM	37543	CB	LEU	D	188	130.880	113.246	25.367	1.00	61.08	DS4
ATOM	37544	CG	LEU	D	188	130.235	111.890	25.094	1.00	61.08	DS4
ATOM	37545	CD1	LEU	D	188	130.035	111.697	23.582	1.00	61.08	DS4
ATOM	37546	CD2	LEU	D	188	131.109	110.780	25.696	1.00	61.08	DS4
ATOM	37547	C	LEU	D	188	131.438	115.219	26.751	1.00	76.21	DS4
ATOM	37548	O	LEU	D	188	130.963	116.119	26.053	1.00	76.21	DS4
ATOM	37549	N	PRO	D	189	132.521	115.416	27.512	1.00	65.38	DS4
ATOM	37550	CD	PRO	D	189	133.320	114.445	28.281	1.00	54.65	DS4
ATOM	37551	CA	PRO	D	189	133.147	116.740	27.517	1.00	65.38	DS4
ATOM	37552	CB	PRO	D	189	134.266	116.583	28.548	1.00	54.65	DS4
ATOM	37553	CG	PRO	D	189	134.659	115.149	28.392	1.00	54.65	DS4
ATOM	37554	C	PRO	D	189	133.657	117.214	26.151	1.00	65.38	DS4
ATOM	37555	O	PRO	D	189	134.114	116.418	25.333	1.00	65.38	DS4
ATOM	37556	N	ASP	D	190	133.546	118.519	25.910	1.00	82.80	DS4
ATOM	37557	CA	ASP	D	190	134.018	119.137	24.672	1.00	82.80	DS4
ATOM	37558	CB	ASP	D	190	133.471	120.562	24.539	1.00	122.05	DS4
ATOM	37559	CG	ASP	D	190	132.205	120.634	23.721	1.00	122.05	DS4
ATOM	37560	OD1	ASP	D	190	132.268	120.318	22.515	1.00	122.05	DS4
ATOM	37561	OD2	ASP	D	190	131.153	121.015	24.278	1.00	122.05	DS4
ATOM	37562	C	ASP	D	190	135.532	119.218	24.774	1.00	82.80	DS4
ATOM	37563	O	ASP	D	190	136.101	119.036	25.852	1.00	82.80	DS4
ATOM	37564	N	ARG	D	191	136.193	119.490	23.660	1.00	75.53	DS4
ATOM	37565	CA	ARG	D	191	137.639	119.616	23.713	1.00	75.53	DS4

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ATOM	37566	CB	ARG	D	191	138.217	119.860	22.319	1.00	87.95	DS4
ATOM	37567	CG	ARG	D	191	139.633	120.405	22.334	1.00	87.95	DS4
ATOM	37568	CD	ARG	D	191	140.490	119.667	23.341	1.00	87.95	DS4
ATOM	37569	NE	ARG	D	191	141.883	120.087	23.283	1.00	87.95	DS4
ATOM	37570	CZ	ARG	D	191	142.766	119.880	24.254	1.00	87.95	DS4
ATOM	37571	NH1	ARG	D	191	142.405	119.262	25.374	1.00	87.95	DS4
ATOM	37572	NH2	ARG	D	191	144.021	120.278	24.096	1.00	87.95	DS4
ATOM	37573	C	ARG	D	191	137.964	120.800	24.614	1.00	75.53	DS4
ATOM	37574	O	ARG	D	191	138.975	120.795	25.322	1.00	75.53	DS4
ATOM	37575	N	GLU	D	192	137.088	121.807	24.580	1.00	90.90	DS4
ATOM	37576	CA	GLU	D	192	137.260	123.020	25.369	1.00	90.90	DS4
ATOM	37577	CB	GLU	D	192	136.384	124.152	24.816	1.00	124.58	DS4
ATOM	37578	CG	GLU	D	192	136.792	124.663	23.432	1.00	124.58	DS4
ATOM	37579	CD	GLU	D	192	136.170	123.873	22.283	1.00	124.58	DS4
ATOM	37580	OE1	GLU	D	192	136.327	122.634	22.252	1.00	124.58	DS4
ATOM	37581	OE2	GLU	D	192	135.526	124.493	21.404	1.00	124.58	DS4
ATOM	37582	C	GLU	D	192	136.964	122.808	26.852	1.00	90.90	DS4
ATOM	37583	O	GLU	D	192	137.332	123.643	27.687	1.00	90.90	DS4
ATOM	37584	N	ASP	D	193	136.308	121.695	27.185	1.00	73.33	DS4
ATOM	37585	CA	ASP	D	193	135.988	121.389	28.582	1.00	73.33	DS4
ATOM	37586	CB	ASP	D	193	134.801	120.418	28.659	1.00	99.84	DS4
ATOM	37587	CG	ASP	D	193	133.458	121.099	28.375	1.00	99.84	DS4
ATOM	37588	OD1	ASP	D	193	133.030	121.953	29.185	1.00	99.84	DS4
ATOM	37589	OD2	ASP	D	193	132.826	120.781	27.342	1.00	99.84	DS4
ATOM	37590	C	ASP	D	193	137.207	120.806	29.306	1.00	73.33	DS4
ATOM	37591	O	ASP	D	193	137.298	120.870	30.525	1.00	73.33	DS4
ATOM	37592	N	LEU	D	194	138.141	120.253	28.536	1.00	87.86	DS4
ATOM	37593	CA	LEU	D	194	139.371	119.663	29.068	1.00	87.86	DS4
ATOM	37594	CB	LEU	D	194	139.752	118.411	28.270	1.00	65.66	DS4
ATOM	37595	CG	LEU	D	194	138.881	117.157	28.259	1.00	65.66	DS4
ATOM	37596	CD1	LEU	D	194	139.019	116.443	29.576	1.00	65.66	DS4
ATOM	37597	CD2	LEU	D	194	137.433	117.518	27.991	1.00	65.66	DS4
ATOM	37598	C	LEU	D	194	140.519	120.664	28.942	1.00	87.86	DS4
ATOM	37599	O	LEU	D	194	140.523	121.507	28.040	1.00	87.86	DS4
ATOM	37600	N	ALA	D	195	141.502	120.568	29.831	1.00	87.71	DS4
ATOM	37601	CA	ALA	D	195	142.659	121.459	29.763	1.00	87.71	DS4
ATOM	37602	CB	ALA	D	195	142.725	122.340	30.993	1.00	37.59	DS4
ATOM	37603	C	ALA	D	195	143.915	120.604	29.664	1.00	87.71	DS4
ATOM	37604	O	ALA	D	195	144.893	120.824	30.381	1.00	87.71	DS4
ATOM	37605	N	LEU	D	196	143.874	119.622	28.770	1.00	86.80	DS4
ATOM	37606	CA	LEU	D	196	144.993	118.715	28.573	1.00	86.80	DS4
ATOM	37607	CB	LEU	D	196	144.517	117.476	27.829	1.00	80.18	DS4
ATOM	37608	CG	LEU	D	196	143.848	116.458	28.747	1.00	80.18	DS4
ATOM	37609	CD1	LEU	D	196	142.884	115.570	27.968	1.00	80.18	DS4
ATOM	37610	CD2	LEU	D	196	144.935	115.646	29.429	1.00	80.18	DS4
ATOM	37611	C	LEU	D	196	146.143	119.347	27.816	1.00	86.80	DS4
ATOM	37612	O	LEU	D	196	145.961	119.850	26.707	1.00	86.80	DS4
ATOM	37613	N	PRO	D	197	147.351	119.315	28.399	1.00	76.76	DS4
ATOM	37614	CD	PRO	D	197	147.733	118.537	29.591	1.00	65.25	DS4
ATOM	37615	CA	PRO	D	197	148.536	119.890	27.763	1.00	76.76	DS4
ATOM	37616	CB	PRO	D	197	149.590	119.771	28.851	1.00	65.25	DS4
ATOM	37617	CG	PRO	D	197	149.248	118.459	29.462	1.00	65.25	DS4
ATOM	37618	C	PRO	D	197	148.879	119.046	26.541	1.00	76.76	DS4
ATOM	37619	O	PRO	D	197	150.047	118.860	26.197	1.00	76.76	DS4
ATOM	37620	N	VAL	D	198	147.842	118.519	25.906	1.00	82.18	DS4
ATOM	37621	CA	VAL	D	198	147.997	117.687	24.734	1.00	82.18	DS4
ATOM	37622	CB	VAL	D	198	147.146	116.410	24.852	1.00	101.93	DS4
ATOM	37623	CG1	VAL	D	198	147.187	115.622	23.549	1.00	101.93	DS4
ATOM	37624	CG2	VAL	D	198	147.657	115.561	26.005	1.00	101.93	DS4
ATOM	37625	C	VAL	D	198	147.541	118.462	23.521	1.00	82.18	DS4
ATOM	37626	O	VAL	D	198	146.603	119.248	23.596	1.00	82.18	DS4
ATOM	37627	N	GLN	D	199	148.220	118.236	22.406	1.00	76.28	DS4
ATOM	37628	CA	GLN	D	199	147.896	118.885	21.151	1.00	76.28	DS4
ATOM	37629	CB	GLN	D	199	149.159	119.559	20.618	1.00	141.28	DS4
ATOM	37630	CG	GLN	D	199	148.890	120.650	19.637	1.00	141.28	DS4
ATOM	37631	CD	GLN	D	199	148.227	120.124	18.398	1.00	110.50	DS4
ATOM	37632	OE1	GLN	D	199	148.862	119.465	17.578	1.00	110.50	DS4
ATOM	37633	NE2	GLN	D	199	146.934	120.394	18.256	1.00	110.50	DS4
ATOM	37634	C	GLN	D	199	147.426	117.746	20.230	1.00	76.28	DS4
ATOM	37635	O	GLN	D	199	148.159	117.312	19.347	1.00	76.28	DS4
ATOM	37636	N	GLU	D	200	146.205	117.258	20.442	1.00	77.10	DS4
ATOM	37637	CA	GLU	D	200	145.680	116.130	19.667	1.00	77.10	DS4
ATOM	37638	CB	GLU	D	200	144.208	115.864	19.999	1.00	85.75	DS4
ATOM	37639	CG	GLU	D	200	143.266	116.934	19.527	1.00	85.75	DS4
ATOM	37640	CD	GLU	D	200	143.118	118.059	20.528	1.00	85.75	DS4
ATOM	37641	OE1	GLU	D	200	144.150	118.572	21.024	1.00	85.75	DS4
ATOM	37642	OE2	GLU	D	200	141.959	118.433	20.814	1.00	85.75	DS4

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ATOM	37643	C	GLU	D	200	145.823	116.169	18.152	1.00	77.10	DS4
ATOM	37644	O	GLU	D	200	145.684	115.124	17.502	1.00	77.10	DS4
ATOM	37645	N	ASN	D	201	146.076	117.348	17.581	1.00	83.13	DS4
ATOM	37646	CA	ASN	D	201	146.246	117.456	16.127	1.00	83.13	DS4
ATOM	37647	CB	ASN	D	201	146.457	118.919	15.697	1.00	99.80	DS4
ATOM	37648	CG	ASN	D	201	146.159	119.152	14.210	1.00	99.80	DS4
ATOM	37649	OD1	ASN	D	201	145.020	118.990	13.763	1.00	99.80	DS4
ATOM	37650	ND2	ASN	D	201	147.182	119.540	13.445	1.00	99.80	DS4
ATOM	37651	C	ASN	D	201	147.477	116.620	15.769	1.00	83.13	DS4
ATOM	37652	O	ASN	D	201	147.557	116.032	14.694	1.00	83.13	DS4
ATOM	37653	N	LEU	D	202	148.436	116.564	16.689	1.00	78.41	DS4
ATOM	37654	CA	LEU	D	202	149.637	115.777	16.478	1.00	78.41	DS4
ATOM	37655	CB	LEU	D	202	150.709	116.138	17.488	1.00	51.07	DS4
ATOM	37656	CG	LEU	D	202	151.187	117.580	17.421	1.00	51.07	DS4
ATOM	37657	CD1	LEU	D	202	152.096	117.863	18.601	1.00	51.07	DS4
ATOM	37658	CD2	LEU	D	202	151.910	117.820	16.113	1.00	51.07	DS4
ATOM	37659	C	LEU	D	202	149.296	114.316	16.645	1.00	78.41	DS4
ATOM	37660	O	LEU	D	202	149.634	113.501	15.802	1.00	78.41	DS4
ATOM	37661	N	VAL	D	203	148.625	113.976	17.736	1.00	77.15	DS4
ATOM	37662	CA	VAL	D	203	148.276	112.584	17.952	1.00	77.15	DS4
ATOM	37663	CB	VAL	D	203	147.394	112.397	19.204	1.00	58.74	DS4
ATOM	37664	CG1	VAL	D	203	146.720	111.037	19.163	1.00	58.74	DS4
ATOM	37665	CG2	VAL	D	203	148.257	112.493	20.461	1.00	58.74	DS4
ATOM	37666	C	VAL	D	203	147.566	112.020	16.732	1.00	77.15	DS4
ATOM	37667	O	VAL	D	203	147.829	110.888	16.327	1.00	77.15	DS4
ATOM	37668	N	ILE	D	204	146.668	112.793	16.133	1.00	63.32	DS4
ATOM	37669	CA	ILE	D	204	145.998	112.275	14.958	1.00	63.32	DS4
ATOM	37670	CB	ILE	D	204	144.980	113.266	14.387	1.00	71.40	DS4
ATOM	37671	CG2	ILE	D	204	144.600	112.865	12.952	1.00	71.40	DS4
ATOM	37672	CG1	ILE	D	204	143.743	113.294	15.276	1.00	71.40	DS4
ATOM	37673	CD1	ILE	D	204	142.615	114.141	14.707	1.00	71.40	DS4
ATOM	37674	C	ILE	D	204	147.063	111.990	13.905	1.00	63.32	DS4
ATOM	37675	O	ILE	D	204	147.086	110.912	13.305	1.00	63.32	DS4
ATOM	37676	N	GLU	D	205	147.954	112.957	13.699	1.00	78.24	DS4
ATOM	37677	CA	GLU	D	205	149.023	112.817	12.716	1.00	78.24	DS4
ATOM	37678	CB	GLU	D	205	149.905	114.066	12.726	1.00	106.58	DS4
ATOM	37679	CG	GLU	D	205	149.172	115.330	12.295	1.00	106.58	DS4
ATOM	37680	CD	GLU	D	205	150.091	116.540	12.207	1.00	106.58	DS4
ATOM	37681	OE1	GLU	D	205	149.604	117.644	11.860	1.00	106.58	DS4
ATOM	37682	OE2	GLU	D	205	151.303	116.383	12.485	1.00	106.58	DS4
ATOM	37683	C	GLU	D	205	149.877	111.558	12.926	1.00	78.24	DS4
ATOM	37684	O	GLU	D	205	150.082	110.783	12.001	1.00	78.24	DS4
ATOM	37685	N	PHE	D	206	150.367	111.356	14.142	1.00	69.96	DS4
ATOM	37686	CA	PHE	D	206	151.190	110.198	14.480	1.00	69.96	DS4
ATOM	37687	CB	PHE	D	206	151.342	110.112	15.993	1.00	67.76	DS4
ATOM	37688	CG	PHE	D	206	152.163	108.956	16.450	1.00	67.76	DS4
ATOM	37689	CD1	PHE	D	206	153.548	108.998	16.376	1.00	67.76	DS4
ATOM	37690	CD2	PHE	D	206	151.556	107.815	16.946	1.00	67.76	DS4
ATOM	37691	CE1	PHE	D	206	154.323	107.913	16.797	1.00	67.76	DS4
ATOM	37692	CE2	PHE	D	206	152.318	106.731	17.365	1.00	67.76	DS4
ATOM	37693	CZ	PHE	D	206	153.704	106.783	17.290	1.00	67.76	DS4
ATOM	37694	C	PHE	D	206	150.597	108.892	13.964	1.00	69.96	DS4
ATOM	37695	O	PHE	D	206	151.320	107.962	13.620	1.00	69.96	DS4
ATOM	37696	N	TYR	D	207	149.279	108.813	13.921	1.00	63.32	DS4
ATOM	37697	CA	TYR	D	207	148.646	107.609	13.431	1.00	63.32	DS4
ATOM	37698	CB	TYR	D	207	147.312	107.404	14.133	1.00	67.57	DS4
ATOM	37699	CG	TYR	D	207	147.540	106.977	15.540	1.00	67.57	DS4
ATOM	37700	CD1	TYR	D	207	146.702	107.391	16.570	1.00	67.57	DS4
ATOM	37701	CE1	TYR	D	207	146.975	107.040	17.888	1.00	67.57	DS4
ATOM	37702	CD2	TYR	D	207	148.645	106.193	15.857	1.00	67.57	DS4
ATOM	37703	CE2	TYR	D	207	148.922	105.836	17.158	1.00	67.57	DS4
ATOM	37704	CZ	TYR	D	207	148.092	106.263	18.167	1.00	67.57	DS4
ATOM	37705	OH	TYR	D	207	148.406	105.915	19.451	1.00	67.57	DS4
ATOM	37706	C	TYR	D	207	148.456	107.644	11.935	1.00	63.32	DS4
ATOM	37707	O	TYR	D	207	147.934	106.688	11.352	1.00	63.32	DS4
ATOM	37708	N	SER	D	208	148.863	108.754	11.320	1.00	69.78	DS4
ATOM	37709	CA	SER	D	208	148.767	108.924	9.872	1.00	69.78	DS4
ATOM	37710	CB	SER	D	208	148.768	110.399	9.476	1.00	142.46	DS4
ATOM	37711	OG	SER	D	208	147.545	111.014	9.824	1.00	142.46	DS4
ATOM	37712	C	SER	D	208	149.979	108.261	9.280	1.00	69.78	DS4
ATOM	37713	O	SER	D	208	149.866	107.521	8.311	1.00	69.78	DS4
ATOM	37714	N	ARG	D	209	151.138	108.527	9.880	1.00	145.84	DS4
ATOM	37715	CA	ARG	D	209	152.400	107.954	9.426	1.00	145.84	DS4
ATOM	37716	CB	ARG	D	209	153.478	108.080	10.501	1.00	123.93	DS4
ATOM	37717	CG	ARG	D	209	154.838	107.621	10.026	1.00	123.93	DS4
ATOM	37718	CD	ARG	D	209	155.915	107.890	11.054	1.00	123.93	DS4
ATOM	37719	NE	ARG	D	209	157.245	107.740	10.471	1.00	123.93	DS4

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ATOM	37720	CZ	ARG	D	209	157.669	106.640	9.860	1.00123.93	DS4
ATOM	37721	NH1	ARG	D	209	156.865	105.592	9.754	1.00123.93	DS4
ATOM	37722	NH2	ARG	D	209	158.890	106.590	9.350	1.00123.93	DS4
ATOM	37723	C	ARG	D	209	152.204	106.488	9.114	1.00145.84	DS4
ATOM	37724	O	ARG	D	209	152.599	106.064	8.003	1.00145.84	DS4
ATOM	37725	OXT	ARG	D	209	151.660	105.795	10.005	1.00 86.89	DS4
TER	37725		ARG	D	209					DS4
ATOM	37726	CB	ASP	E	5	155.310	138.214	14.336	1.00154.01	ES5
ATOM	37727	CG	ASP	E	5	156.756	138.238	14.778	1.00154.01	ES5
ATOM	37728	OD1	ASP	E	5	157.009	138.059	15.988	1.00154.01	ES5
ATOM	37729	OD2	ASP	E	5	157.638	138.433	13.915	1.00154.01	ES5
ATOM	37730	C	ASP	E	5	155.186	135.797	13.643	1.00143.55	ES5
ATOM	37731	O	ASP	E	5	154.590	134.727	13.506	1.00143.55	ES5
ATOM	37732	N	ASP	E	5	154.813	136.476	16.028	1.00143.55	ES5
ATOM	37733	CA	ASP	E	5	154.636	136.862	14.599	1.00143.55	ES5
ATOM	37734	N	PHE	E	6	156.312	136.083	12.986	1.00111.20	ES5
ATOM	37735	CA	PHE	E	6	156.909	135.134	12.042	1.00111.20	ES5
ATOM	37736	CB	PHE	E	6	157.817	135.851	11.032	1.00 77.81	ES5
ATOM	37737	CG	PHE	E	6	157.084	136.438	9.847	1.00 77.81	ES5
ATOM	37738	CD1	PHE	E	6	157.785	137.121	8.855	1.00 77.81	ES5
ATOM	37739	CD2	PHE	E	6	155.706	136.328	9.727	1.00 77.81	ES5
ATOM	37740	CE1	PHE	E	6	157.126	137.689	7.763	1.00 77.81	ES5
ATOM	37741	CE2	PHE	E	6	155.037	136.893	8.640	1.00 77.81	ES5
ATOM	37742	CZ	PHE	E	6	155.750	137.576	7.657	1.00 77.81	ES5
ATOM	37743	C	PHE	E	6	157.715	134.053	12.736	1.00111.20	ES5
ATOM	37744	O	PHE	E	6	158.512	134.343	13.632	1.00111.20	ES5
ATOM	37745	N	GLU	E	7	157.495	132.809	12.313	1.00 89.12	ES5
ATOM	37746	CA	GLU	E	7	158.200	131.664	12.873	1.00 89.12	ES5
ATOM	37747	CB	GLU	E	7	157.213	130.603	13.361	1.00114.70	ES5
ATOM	37748	CG	GLU	E	7	157.880	129.347	13.904	1.00114.70	ES5
ATOM	37749	CD	GLU	E	7	156.877	128.306	14.380	1.00114.70	ES5
ATOM	37750	OE1	GLU	E	7	157.292	127.167	14.689	1.00114.70	ES5
ATOM	37751	OE2	GLU	E	7	155.671	128.627	14.452	1.00114.70	ES5
ATOM	37752	C	GLU	E	7	159.123	131.066	11.818	1.00 89.12	ES5
ATOM	37753	O	GLU	E	7	158.798	131.047	10.627	1.00 89.12	ES5
ATOM	37754	N	GLU	E	8	160.278	130.587	12.271	1.00 86.85	ES5
ATOM	37755	CA	GLU	E	8	161.278	129.995	11.394	1.00 86.85	ES5
ATOM	37756	CB	GLU	E	8	162.647	130.646	11.637	1.00134.54	ES5
ATOM	37757	CG	GLU	E	8	162.951	131.886	10.806	1.00134.54	ES5
ATOM	37758	CD	GLU	E	8	164.355	132.430	11.060	1.00134.54	ES5
ATOM	37759	OE1	GLU	E	8	165.276	131.616	11.288	1.00134.54	ES5
ATOM	37760	OE2	GLU	E	8	164.543	133.666	11.017	1.00134.54	ES5
ATOM	37761	C	GLU	E	8	161.423	128.491	11.599	1.00 86.85	ES5
ATOM	37762	O	GLU	E	8	161.766	128.036	12.689	1.00 86.85	ES5
ATOM	37763	N	LYS	E	9	161.137	127.722	10.555	1.00 77.72	ES5
ATOM	37764	CA	LYS	E	9	161.314	126.276	10.597	1.00 77.72	ES5
ATOM	37765	CB	LYS	E	9	160.032	125.536	10.210	1.00134.07	ES5
ATOM	37766	CG	LYS	E	9	158.888	125.767	11.168	1.00134.07	ES5
ATOM	37767	CD	LYS	E	9	157.762	124.762	10.970	1.00134.07	ES5
ATOM	37768	CE	LYS	E	9	158.123	123.391	11.515	1.00134.07	ES5
ATOM	37769	NZ	LYS	E	9	156.960	122.458	11.467	1.00134.07	ES5
ATOM	37770	C	LYS	E	9	162.382	126.059	9.537	1.00 77.72	ES5
ATOM	37771	O	LYS	E	9	162.343	126.692	8.474	1.00 77.72	ES5
ATOM	37772	N	MET	E	10	163.346	125.191	9.809	1.00 95.43	ES5
ATOM	37773	CA	MET	E	10	164.407	124.959	8.836	1.00 95.43	ES5
ATOM	37774	CB	MET	E	10	165.760	125.203	9.510	1.00125.12	ES5
ATOM	37775	CG	MET	E	10	166.954	124.924	8.650	1.00125.12	ES5
ATOM	37776	SD	MET	E	10	167.526	123.270	8.985	1.00125.12	ES5
ATOM	37777	CE	MET	E	10	168.640	123.602	10.344	1.00125.12	ES5
ATOM	37778	C	MET	E	10	164.327	123.568	8.191	1.00 95.43	ES5
ATOM	37779	O	MET	E	10	164.580	122.549	8.840	1.00 95.43	ES5
ATOM	37780	N	ILE	E	11	163.957	123.551	6.909	1.00106.94	ES5
ATOM	37781	CA	ILE	E	11	163.803	122.322	6.131	1.00106.94	ES5
ATOM	37782	CB	ILE	E	11	163.463	122.624	4.677	1.00 68.20	ES5
ATOM	37783	CG2	ILE	E	11	163.293	121.326	3.930	1.00 68.20	ES5
ATOM	37784	CG1	ILE	E	11	162.172	123.430	4.595	1.00 68.20	ES5
ATOM	37785	CD1	ILE	E	11	160.990	122.687	5.133	1.00 68.20	ES5
ATOM	37786	C	ILE	E	11	165.028	121.422	6.111	1.00106.94	ES5
ATOM	37787	O	ILE	E	11	165.092	120.425	6.837	1.00106.94	ES5
ATOM	37788	N	LEU	E	12	165.985	121.763	5.249	1.00 78.61	ES5
ATOM	37789	CA	LEU	E	12	167.217	120.987	5.135	1.00 78.61	ES5
ATOM	37790	CB	LEU	E	12	167.147	120.034	3.929	1.00 69.64	ES5
ATOM	37791	CG	LEU	E	12	167.404	120.542	2.498	1.00 69.64	ES5
ATOM	37792	CD1	LEU	E	12	166.579	121.787	2.259	1.00 69.64	ES5
ATOM	37793	CD2	LEU	E	12	168.883	120.843	2.276	1.00 69.64	ES5
ATOM	37794	C	LEU	E	12	168.431	121.885	4.972	1.00 78.61	ES5
ATOM	37795	O	LEU	E	12	168.320	123.014	4.498	1.00 78.61	ES5

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ATOM	37796	N	ILE	E	13	169.589	121.385	5.385	1.00	69.14	ES5
ATOM	37797	CA	ILE	E	13	170.834	122.126	5.207	1.00	69.14	ES5
ATOM	37798	CB	ILE	E	13	171.328	122.821	6.499	1.00	70.80	ES5
ATOM	37799	CG2	ILE	E	13	170.552	124.117	6.712	1.00	70.80	ES5
ATOM	37800	CG1	ILE	E	13	171.187	121.892	7.695	1.00	70.80	ES5
ATOM	37801	CD1	ILE	E	13	171.565	122.562	8.994	1.00	70.80	ES5
ATOM	37802	C	ILE	E	13	171.851	121.114	4.728	1.00	69.14	ES5
ATOM	37803	O	ILE	E	13	172.020	120.069	5.351	1.00	69.14	ES5
ATOM	37804	N	ARG	E	14	172.498	121.418	3.603	1.00	48.80	ES5
ATOM	37805	CA	ARG	E	14	173.476	120.521	2.997	1.00	48.80	ES5
ATOM	37806	CB	ARG	E	14	173.004	120.135	1.612	1.00	60.39	ES5
ATOM	37807	CG	ARG	E	14	172.727	121.330	0.752	1.00	60.39	ES5
ATOM	37808	CD	ARG	E	14	172.149	120.874	-0.529	1.00	60.39	ES5
ATOM	37809	NE	ARG	E	14	172.128	121.934	-1.516	1.00	60.39	ES5
ATOM	37810	CZ	ARG	E	14	171.668	121.752	-2.750	1.00	60.39	ES5
ATOM	37811	NH1	ARG	E	14	171.206	120.546	-3.099	1.00	60.39	ES5
ATOM	37812	NH2	ARG	E	14	171.668	122.759	-3.632	1.00	60.39	ES5
ATOM	37813	C	ARG	E	14	174.853	121.156	2.920	1.00	48.80	ES5
ATOM	37814	O	ARG	E	14	174.985	122.393	2.885	1.00	48.80	ES5
ATOM	37815	N	ARG	E	15	175.875	120.305	2.862	1.00	81.10	ES5
ATOM	37816	CA	ARG	E	15	177.239	120.794	2.857	1.00	81.10	ES5
ATOM	37817	CB	ARG	E	15	178.117	119.849	3.683	1.00	79.99	ES5
ATOM	37818	CG	ARG	E	15	179.453	120.445	4.100	1.00	79.99	ES5
ATOM	37819	CD	ARG	E	15	180.508	120.138	3.075	1.00	79.99	ES5
ATOM	37820	NE	ARG	E	15	181.027	118.780	3.200	1.00	79.99	ES5
ATOM	37821	CZ	ARG	E	15	182.027	118.435	4.010	1.00	79.99	ES5
ATOM	37822	NH1	ARG	E	15	182.621	119.348	4.767	1.00	79.99	ES5
ATOM	37823	NH2	ARG	E	15	182.443	117.179	4.064	1.00	79.99	ES5
ATOM	37824	C	ARG	E	15	177.906	121.109	1.526	1.00	81.10	ES5
ATOM	37825	O	ARG	E	15	178.965	121.708	1.532	1.00	81.10	ES5
ATOM	37826	N	THR	E	16	177.314	120.718	0.400	1.00	68.19	ES5
ATOM	37827	CA	THR	E	16	177.866	121.035	-0.936	1.00	68.19	ES5
ATOM	37828	CB	THR	E	16	177.087	122.235	-1.590	1.00	66.80	ES5
ATOM	37829	OG1	THR	E	16	177.824	122.717	-2.715	1.00	66.80	ES5
ATOM	37830	CG2	THR	E	16	176.930	123.402	-0.626	1.00	66.80	ES5
ATOM	37831	C	THR	E	16	179.381	121.344	-1.114	1.00	68.19	ES5
ATOM	37832	O	THR	E	16	179.942	122.207	-0.434	1.00	68.19	ES5
ATOM	37833	N	ALA	E	17	180.032	120.688	-2.076	1.00	98.58	ES5
ATOM	37834	CA	ALA	E	17	181.461	120.930	-2.298	1.00	98.58	ES5
ATOM	37835	CB	ALA	E	17	182.248	119.690	-1.968	1.00	62.00	ES5
ATOM	37836	C	ALA	E	17	181.888	121.442	-3.671	1.00	98.58	ES5
ATOM	37837	O	ALA	E	17	181.227	121.223	-4.684	1.00	98.58	ES5
ATOM	37838	N	ARG	E	18	183.036	122.110	-3.668	1.00	75.74	ES5
ATOM	37839	CA	ARG	E	18	183.648	122.708	-4.847	1.00	75.74	ES5
ATOM	37840	CB	ARG	E	18	183.597	124.227	-4.714	1.00	79.62	ES5
ATOM	37841	CG	ARG	E	18	184.274	124.996	-5.819	1.00	79.62	ES5
ATOM	37842	CD	ARG	E	18	185.139	126.099	-5.226	1.00	79.62	ES5
ATOM	37843	NE	ARG	E	18	184.462	126.760	-4.116	1.00	79.62	ES5
ATOM	37844	CZ	ARG	E	18	185.035	127.638	-3.299	1.00	79.62	ES5
ATOM	37845	NH1	ARG	E	18	186.309	127.973	-3.462	1.00	79.62	ES5
ATOM	37846	NH2	ARG	E	18	184.329	128.172	-2.309	1.00	79.62	ES5
ATOM	37847	C	ARG	E	18	185.102	122.230	-4.874	1.00	75.74	ES5
ATOM	37848	O	ARG	E	18	185.682	121.944	-3.828	1.00	75.74	ES5
ATOM	37849	N	MET	E	19	185.696	122.142	-6.058	1.00	66.35	ES5
ATOM	37850	CA	MET	E	19	187.070	121.667	-6.162	1.00	66.35	ES5
ATOM	37851	CB	MET	E	19	187.182	120.574	-7.214	1.00	75.40	ES5
ATOM	37852	CG	MET	E	19	186.735	119.242	-6.709	1.00	75.40	ES5
ATOM	37853	SD	MET	E	19	187.837	118.742	-5.416	1.00	75.40	ES5
ATOM	37854	CE	MET	E	19	188.340	117.059	-6.035	1.00	75.40	ES5
ATOM	37855	C	MET	E	19	188.061	122.746	-6.489	1.00	66.35	ES5
ATOM	37856	O	MET	E	19	187.783	123.659	-7.265	1.00	66.35	ES5
ATOM	37857	N	GLN	E	20	189.235	122.631	-5.893	1.00	72.89	ES5
ATOM	37858	CA	GLN	E	20	190.285	123.592	-6.125	1.00	72.89	ES5
ATOM	37859	CB	GLN	E	20	190.443	124.540	-4.941	1.00	121.74	ES5
ATOM	37860	CG	GLN	E	20	189.746	125.847	-5.139	1.00	121.74	ES5
ATOM	37861	CD	GLN	E	20	190.001	126.396	-6.518	1.00	121.74	ES5
ATOM	37862	OE1	GLN	E	20	191.153	126.534	-6.934	1.00	121.74	ES5
ATOM	37863	NE2	GLN	E	20	188.928	126.708	-7.245	1.00	121.74	ES5
ATOM	37864	C	GLN	E	20	191.553	122.828	-6.279	1.00	72.89	ES5
ATOM	37865	O	GLN	E	20	191.656	121.677	-5.850	1.00	72.89	ES5
ATOM	37866	N	ALA	E	21	192.521	123.466	-6.913	1.00	82.31	ES5
ATOM	37867	CA	ALA	E	21	193.811	122.846	-7.051	1.00	82.31	ES5
ATOM	37868	CB	ALA	E	21	194.767	123.788	-7.727	1.00	63.11	ES5
ATOM	37869	C	ALA	E	21	194.165	122.701	-5.582	1.00	82.31	ES5
ATOM	37870	O	ALA	E	21	193.949	123.614	-4.786	1.00	82.31	ES5
ATOM	37871	N	GLY	E	22	194.662	121.543	-5.203	1.00	64.46	ES5
ATOM	37872	CA	GLY	E	22	195.018	121.369	-3.819	1.00	64.43	ES5

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ATOM	37873	C	GLY	E	22	193.878	121.272	-2.819	1.00	64.48	ES5
ATOM	37874	O	GLY	E	22	194.014	121.761	-1.705	1.00	64.48	ES5
ATOM	37875	N	GLY	E	23	192.749	120.673	-3.178	1.00	78.97	ES5
ATOM	37876	CA	GLY	E	23	191.710	120.531	-2.172	1.00	78.97	ES5
ATOM	37877	C	GLY	E	23	190.262	120.812	-2.503	1.00	78.97	ES5
ATOM	37878	O	GLY	E	23	189.951	121.398	-3.547	1.00	78.97	ES5
ATOM	37879	N	ARG	E	24	189.382	120.366	-1.598	1.00	75.65	ES5
ATOM	37880	CA	ARG	E	24	187.938	120.569	-1.717	1.00	75.65	ES5
ATOM	37881	CB	ARG	E	24	187.165	119.423	-1.064	1.00	100.86	ES5
ATOM	37882	CG	ARG	E	24	187.522	118.050	-1.549	1.00	100.86	ES5
ATOM	37883	CD	ARG	E	24	186.545	117.019	-1.002	1.00	100.86	ES5
ATOM	37884	NE	ARG	E	24	186.882	115.670	-1.453	1.00	100.86	ES5
ATOM	37885	CZ	ARG	E	24	187.015	115.313	-2.733	1.00	100.86	ES5
ATOM	37886	NH1	ARG	E	24	186.836	116.207	-3.694	1.00	100.86	ES5
ATOM	37887	NH2	ARG	E	24	187.337	114.065	-3.061	1.00	100.86	ES5
ATOM	37888	C	ARG	E	24	187.608	121.851	-0.960	1.00	75.65	ES5
ATOM	37889	O	ARG	E	24	188.306	122.213	-0.016	1.00	75.65	ES5
ATOM	37890	N	ARG	E	25	186.551	122.542	-1.364	1.00	96.76	ES5
ATOM	37891	CA	ARG	E	25	186.164	123.761	-0.671	1.00	96.76	ES5
ATOM	37892	CB	ARG	E	25	186.743	124.959	-1.374	1.00	78.74	ES5
ATOM	37893	CG	ARG	E	25	188.203	124.930	-1.199	1.00	78.74	ES5
ATOM	37894	CD	ARG	E	25	188.817	126.235	-1.460	1.00	78.74	ES5
ATOM	37895	NE	ARG	E	25	190.170	126.196	-0.944	1.00	78.74	ES5
ATOM	37896	CZ	ARG	E	25	191.015	127.211	-1.016	1.00	78.74	ES5
ATOM	37897	NH1	ARG	E	25	190.636	128.358	-1.597	1.00	78.74	ES5
ATOM	37898	NH2	ARG	E	25	192.231	127.073	-0.490	1.00	78.74	ES5
ATOM	37899	C	ARG	E	25	184.674	123.881	-0.512	1.00	96.76	ES5
ATOM	37900	O	ARG	E	25	183.934	124.163	-1.457	1.00	96.76	ES5
ATOM	37901	N	PHE	E	26	184.257	123.689	0.729	1.00	74.95	ES5
ATOM	37902	CA	PHE	E	26	182.864	123.680	1.080	1.00	74.95	ES5
ATOM	37903	CB	PHE	E	26	182.738	122.937	2.382	1.00	72.73	ES5
ATOM	37904	CG	PHE	E	26	183.586	121.724	2.427	1.00	72.73	ES5
ATOM	37905	CD1	PHE	E	26	184.789	121.732	3.100	1.00	72.73	ES5
ATOM	37906	CD2	PHE	E	26	183.193	120.563	1.774	1.00	72.73	ES5
ATOM	37907	CE1	PHE	E	26	185.590	120.585	3.131	1.00	72.73	ES5
ATOM	37908	CE2	PHE	E	26	183.988	119.407	1.798	1.00	72.73	ES5
ATOM	37909	CZ	PHE	E	26	185.185	119.420	2.477	1.00	72.73	ES5
ATOM	37910	C	PHE	E	26	182.065	124.962	1.126	1.00	74.95	ES5
ATOM	37911	O	PHE	E	26	182.595	126.078	1.069	1.00	74.95	ES5
ATOM	37912	N	ARG	E	27	180.756	124.746	1.222	1.00	77.25	ES5
ATOM	37913	CA	ARG	E	27	179.750	125.785	1.273	1.00	77.25	ES5
ATOM	37914	CB	ARG	E	27	179.416	126.214	-0.155	1.00	80.77	ES5
ATOM	37915	CG	ARG	E	27	178.434	127.342	-0.263	1.00	80.77	ES5
ATOM	37916	CD	ARG	E	27	178.591	128.024	-1.597	1.00	80.77	ES5
ATOM	37917	NE	ARG	E	27	179.901	128.653	-1.704	1.00	80.77	ES5
ATOM	37918	CZ	ARG	E	27	180.364	129.236	-2.806	1.00	80.77	ES5
ATOM	37919	NH1	ARG	E	27	179.620	129.269	-3.907	1.00	80.77	ES5
ATOM	37920	NH2	ARG	E	27	181.574	129.790	-2.807	1.00	80.77	ES5
ATOM	37921	C	ARG	E	27	178.520	125.181	1.978	1.00	77.25	ES5
ATOM	37922	O	ARG	E	27	178.454	123.972	2.232	1.00	77.25	ES5
ATOM	37923	N	PHE	E	28	177.550	126.017	2.317	1.00	66.39	ES5
ATOM	37924	CA	PHE	E	28	176.371	125.502	2.984	1.00	66.39	ES5
ATOM	37925	CB	PHE	E	28	176.456	125.745	4.496	1.00	51.15	ES5
ATOM	37926	CG	PHE	E	28	177.551	124.976	5.160	1.00	51.15	ES5
ATOM	37927	CD1	PHE	E	28	178.857	125.461	5.158	1.00	51.15	ES5
ATOM	37928	CD2	PHE	E	28	177.296	123.720	5.700	1.00	51.15	ES5
ATOM	37929	CE1	PHE	E	28	179.891	124.699	5.674	1.00	51.15	ES5
ATOM	37930	CE2	PHE	E	28	178.321	122.948	6.219	1.00	51.15	ES5
ATOM	37931	CZ	PHE	E	28	179.625	123.430	6.207	1.00	51.15	ES5
ATOM	37932	C	PHE	E	28	175.106	126.113	2.444	1.00	66.39	ES5
ATOM	37933	O	PHE	E	28	175.010	127.329	2.258	1.00	66.39	ES5
ATOM	37934	N	GLY	E	29	174.136	125.246	2.188	1.00	70.71	ES5
ATOM	37935	CA	GLY	E	29	172.852	125.691	1.690	1.00	70.71	ES5
ATOM	37936	C	GLY	E	29	171.823	125.405	2.759	1.00	70.71	ES5
ATOM	37937	O	GLY	E	29	171.826	124.328	3.360	1.00	70.71	ES5
ATOM	37938	N	ALA	E	30	170.952	126.373	3.011	1.00	69.99	ES5
ATOM	37939	CA	ALA	E	30	169.923	126.215	4.025	1.00	69.99	ES5
ATOM	37940	CB	ALA	E	30	170.251	127.099	5.237	1.00	47.70	ES5
ATOM	37941	C	ALA	E	30	168.560	126.578	3.446	1.00	69.99	ES5
ATOM	37942	O	ALA	E	30	168.415	127.571	2.728	1.00	69.99	ES5
ATOM	37943	N	LEU	E	31	167.567	125.753	3.740	1.00	72.64	ES5
ATOM	37944	CA	LEU	E	31	166.216	126.002	3.258	1.00	72.64	ES5
ATOM	37945	CB	LEU	E	31	165.626	124.759	2.588	1.00	46.01	ES5
ATOM	37946	CG	LEU	E	31	165.147	124.976	1.154	1.00	46.01	ES5
ATOM	37947	CD1	LEU	E	31	163.862	124.193	0.944	1.00	46.01	ES5
ATOM	37948	CD2	LEU	E	31	164.930	126.470	0.893	1.00	46.01	ES5
ATOM	37949	C	LEU	E	31	165.364	126.375	4.452	1.00	72.64	ES5

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ATOM	37950	O	LEU	E	31	165.109	125.544	5.338	1.00	72.64	ES5
ATOM	37951	N	VAL	E	32	164.906	127.619	4.472	1.00	75.01	ES5
ATOM	37952	CA	VAL	E	32	164.115	128.081	5.595	1.00	75.01	ES5
ATOM	37953	CB	VAL	E	32	164.865	129.224	6.313	1.00	70.24	ES5
ATOM	37954	CG1	VAL	E	32	163.969	129.876	7.338	1.00	70.24	ES5
ATOM	37955	CG2	VAL	E	32	166.112	128.669	6.989	1.00	70.24	ES5
ATOM	37956	C	VAL	E	32	162.683	128.508	5.261	1.00	75.01	ES5
ATOM	37957	O	VAL	E	32	162.434	129.265	4.309	1.00	75.01	ES5
ATOM	37958	N	VAL	E	33	161.738	127.991	6.044	1.00	74.24	ES5
ATOM	37959	CA	VAL	E	33	160.343	128.332	5.848	1.00	74.24	ES5
ATOM	37960	CB	VAL	E	33	159.433	127.125	5.908	1.00	86.33	ES5
ATOM	37961	CG1	VAL	E	33	158.048	127.527	5.434	1.00	86.33	ES5
ATOM	37962	CG2	VAL	E	33	159.996	126.011	5.054	1.00	86.33	ES5
ATOM	37963	C	VAL	E	33	159.954	129.260	6.965	1.00	74.24	ES5
ATOM	37964	O	VAL	E	33	160.214	128.995	8.136	1.00	74.24	ES5
ATOM	37965	N	VAL	E	34	159.336	130.362	6.591	1.00	71.65	ES5
ATOM	37966	CA	VAL	E	34	158.924	131.349	7.553	1.00	71.65	ES5
ATOM	37967	CB	VAL	E	34	159.667	132.668	7.308	1.00	59.58	ES5
ATOM	37968	CG1	VAL	E	34	158.945	133.806	7.981	1.00	59.58	ES5
ATOM	37969	CG2	VAL	E	34	161.083	132.565	7.836	1.00	59.58	ES5
ATOM	37970	C	VAL	E	34	157.439	131.552	7.385	1.00	71.65	ES5
ATOM	37971	O	VAL	E	34	156.949	131.721	6.262	1.00	71.65	ES5
ATOM	37972	N	GLY	E	35	156.724	131.516	8.506	1.00	92.90	ES5
ATOM	37973	CA	GLY	E	35	155.284	131.704	8.482	1.00	92.90	ES5
ATOM	37974	C	GLY	E	35	154.785	132.418	9.723	1.00	92.90	ES5
ATOM	37975	O	GLY	E	35	155.561	132.734	10.630	1.00	92.90	ES5
ATOM	37976	N	ASP	E	36	153.483	132.683	9.752	1.00	76.52	ES5
ATOM	37977	CA	ASP	E	36	152.840	133.346	10.885	1.00	76.52	ES5
ATOM	37978	CB	ASP	E	36	152.334	134.747	10.477	1.00	83.95	ES5
ATOM	37979	CG	ASP	E	36	151.153	134.712	9.489	1.00	83.95	ES5
ATOM	37980	OD1	ASP	E	36	150.809	133.634	8.961	1.00	83.95	ES5
ATOM	37981	OD2	ASP	E	36	150.564	135.786	9.232	1.00	83.95	ES5
ATOM	37982	C	ASP	E	36	151.677	132.468	11.336	1.00	76.52	ES5
ATOM	37983	O	ASP	E	36	150.918	132.820	12.230	1.00	76.52	ES5
ATOM	37984	N	ARG	E	37	151.559	131.312	10.698	1.00	70.18	ES5
ATOM	37985	CA	ARG	E	37	150.492	130.375	10.983	1.00	70.18	ES5
ATOM	37986	CB	ARG	E	37	150.657	129.833	12.395	1.00	68.08	ES5
ATOM	37987	CG	ARG	E	37	151.901	128.990	12.537	1.00	68.08	ES5
ATOM	37988	CD	ARG	E	37	152.027	128.399	13.920	1.00	68.08	ES5
ATOM	37989	NE	ARG	E	37	153.115	127.421	14.021	1.00	68.08	ES5
ATOM	37990	CZ	ARG	E	37	152.996	126.118	13.753	1.00	68.08	ES5
ATOM	37991	NH1	ARG	E	37	151.821	125.619	13.364	1.00	68.08	ES5
ATOM	37992	NH2	ARG	E	37	154.056	125.310	13.875	1.00	68.08	ES5
ATOM	37993	C	ARG	E	37	149.152	131.075	10.803	1.00	70.18	ES5
ATOM	37994	O	ARG	E	37	148.110	130.565	11.201	1.00	70.18	ES5
ATOM	37995	N	GLN	E	38	149.196	132.240	10.164	1.00	76.21	ES5
ATOM	37996	CA	GLN	E	38	148.013	133.051	9.921	1.00	76.21	ES5
ATOM	37997	CB	GLN	E	38	148.173	134.417	10.590	1.00	112.24	ES5
ATOM	37998	CG	GLN	E	38	147.033	134.794	11.496	1.00	112.24	ES5
ATOM	37999	CD	GLN	E	38	146.740	133.695	12.481	1.00	112.24	ES5
ATOM	38000	OE1	GLN	E	38	147.652	133.181	13.132	1.00	112.24	ES5
ATOM	38001	NE2	GLN	E	38	145.466	133.317	12.597	1.00	112.24	ES5
ATOM	38002	C	GLN	E	38	147.767	133.266	8.442	1.00	76.21	ES5
ATOM	38003	O	GLN	E	38	147.327	134.338	8.044	1.00	76.21	ES5
ATOM	38004	N	GLY	E	39	148.059	132.262	7.627	1.00	90.62	ES5
ATOM	38005	CA	GLY	E	39	147.846	132.403	6.195	1.00	90.62	ES5
ATOM	38006	C	GLY	E	39	148.872	133.268	5.475	1.00	90.62	ES5
ATOM	38007	O	GLY	E	39	148.527	133.998	4.546	1.00	90.62	ES5
ATOM	38008	N	ARG	E	40	150.129	133.185	5.909	1.00	70.55	ES5
ATOM	38009	CA	ARG	E	40	151.230	133.937	5.313	1.00	70.55	ES5
ATOM	38010	CB	ARG	E	40	151.419	135.275	6.025	1.00	109.39	ES5
ATOM	38011	CG	ARG	E	40	150.373	136.305	5.694	1.00	109.39	ES5
ATOM	38012	CD	ARG	E	40	150.548	137.585	6.512	1.00	109.39	ES5
ATOM	38013	NE	ARG	E	40	151.880	138.189	6.396	1.00	109.39	ES5
ATOM	38014	CZ	ARG	E	40	152.434	138.621	5.261	1.00	109.39	ES5
ATOM	38015	NH1	ARG	E	40	151.781	138.522	4.106	1.00	109.39	ES5
ATOM	38016	NH2	ARG	E	40	153.648	139.168	5.285	1.00	109.39	ES5
ATOM	38017	C	ARG	E	40	152.527	133.143	5.426	1.00	70.55	ES5
ATOM	38018	O	ARG	E	40	153.062	132.998	6.527	1.00	70.55	ES5
ATOM	38019	N	VAL	E	41	153.030	132.612	4.309	1.00	69.72	ES5
ATOM	38020	CA	VAL	E	41	154.298	131.874	4.344	1.00	69.72	ES5
ATOM	38021	CB	VAL	E	41	154.148	130.375	4.129	1.00	70.73	ES5
ATOM	38022	CG1	VAL	E	41	153.762	129.711	5.423	1.00	70.73	ES5
ATOM	38023	CG2	VAL	E	41	153.135	130.115	3.027	1.00	70.73	ES5
ATOM	38024	C	VAL	E	41	155.280	132.330	3.306	1.00	69.72	ES5
ATOM	38025	O	VAL	E	41	154.902	132.803	2.223	1.00	69.72	ES5
ATOM	38026	N	GLY	E	42	156.549	132.156	3.660	1.00	85.73	ES5

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ATOM	38027	CA	GLY	E	42	157.645	132.532	2.797	1.00	85.73	ES5
ATOM	38028	C	GLY	E	42	158.774	131.530	2.908	1.00	85.73	ES5
ATOM	38029	O	GLY	E	42	159.166	131.121	4.008	1.00	85.73	ES5
ATOM	38030	N	LEU	E	43	159.296	131.134	1.752	1.00	81.65	ES5
ATOM	38031	CA	LEU	E	43	160.382	130.167	1.674	1.00	81.65	ES5
ATOM	38032	CB	LEU	E	43	159.993	129.055	0.711	1.00	66.39	ES5
ATOM	38033	CG	LEU	E	43	160.655	127.700	0.894	1.00	66.39	ES5
ATOM	38034	CD1	LEU	E	43	160.652	126.976	-0.456	1.00	66.39	ES5
ATOM	38035	CD2	LEU	E	43	162.070	127.880	1.425	1.00	66.39	ES5
ATOM	38036	C	LEU	E	43	161.636	130.864	1.161	1.00	81.65	ES5
ATOM	38037	O	LEU	E	43	161.575	131.683	0.245	1.00	81.65	ES5
ATOM	38038	N	GLY	E	44	162.776	130.533	1.747	1.00	57.55	ES5
ATOM	38039	CA	GLY	E	44	164.018	131.152	1.318	1.00	57.55	ES5
ATOM	38040	C	GLY	E	44	165.198	130.193	1.295	1.00	57.55	ES5
ATOM	38041	O	GLY	E	44	165.445	129.437	2.245	1.00	57.55	ES5
ATOM	38042	N	PHE	E	45	165.938	130.209	0.199	1.00	88.12	ES5
ATOM	38043	CA	PHE	E	45	167.078	129.327	0.105	1.00	88.12	ES5
ATOM	38044	CB	PHE	E	45	166.935	128.415	-1.099	1.00	90.71	ES5
ATOM	38045	CG	PHE	E	45	167.992	127.374	-1.177	1.00	90.71	ES5
ATOM	38046	CD1	PHE	E	45	168.267	126.573	-0.080	1.00	90.71	ES5
ATOM	38047	CD2	PHE	E	45	168.716	127.189	-2.340	1.00	90.71	ES5
ATOM	38048	CE1	PHE	E	45	169.255	125.603	-0.141	1.00	90.71	ES5
ATOM	38049	CE2	PHE	E	45	169.706	126.219	-2.407	1.00	90.71	ES5
ATOM	38050	CZ	PHE	E	45	169.975	125.425	-1.308	1.00	90.71	ES5
ATOM	38051	C	PHE	E	45	168.340	130.155	-0.012	1.00	88.12	ES5
ATOM	38052	O	PHE	E	45	168.533	130.871	-0.998	1.00	88.12	ES5
ATOM	38053	N	GLY	E	46	169.200	130.054	0.998	1.00	67.32	ES5
ATOM	38054	CA	GLY	E	46	170.422	130.832	0.992	1.00	67.32	ES5
ATOM	38055	C	GLY	E	46	171.663	130.062	1.380	1.00	67.32	ES5
ATOM	38056	O	GLY	E	46	171.636	129.205	2.269	1.00	67.32	ES5
ATOM	38057	N	LYS	E	47	172.762	130.388	0.708	1.00	78.85	ES5
ATOM	38058	CA	LYS	E	47	174.030	129.731	0.958	1.00	78.85	ES5
ATOM	38059	CB	LYS	E	47	174.551	129.062	-0.312	1.00	72.13	ES5
ATOM	38060	CG	LYS	E	47	173.502	128.395	-1.162	1.00	72.13	ES5
ATOM	38061	CD	LYS	E	47	172.830	129.416	-2.024	1.00	72.13	ES5
ATOM	38062	CE	LYS	E	47	171.906	128.753	-3.006	1.00	72.13	ES5
ATOM	38063	NZ	LYS	E	47	171.310	129.739	-3.954	1.00	72.13	ES5
ATOM	38064	C	LYS	E	47	175.065	130.724	1.437	1.00	78.85	ES5
ATOM	38065	O	LYS	E	47	174.976	131.919	1.157	1.00	78.85	ES5
ATOM	38066	N	ALA	E	48	176.057	130.202	2.148	1.00	64.08	ES5
ATOM	38067	CA	ALA	E	48	177.152	130.998	2.690	1.00	64.08	ES5
ATOM	38068	CB	ALA	E	48	176.621	131.993	3.714	1.00	103.01	ES5
ATOM	38069	C	ALA	E	48	178.172	130.050	3.334	1.00	64.08	ES5
ATOM	38070	O	ALA	E	48	177.851	128.893	3.640	1.00	64.08	ES5
ATOM	38071	N	PRO	E	49	179.418	130.523	3.521	1.00	66.35	ES5
ATOM	38072	CD	PRO	E	49	179.857	131.855	3.078	1.00	72.84	ES5
ATOM	38073	CA	PRO	E	49	180.540	129.786	4.115	1.00	66.35	ES5
ATOM	38074	CB	PRO	E	49	181.620	130.861	4.267	1.00	72.84	ES5
ATOM	38075	CG	PRO	E	49	180.861	132.186	4.122	1.00	72.84	ES5
ATOM	38076	C	PRO	E	49	180.306	128.988	5.413	1.00	66.35	ES5
ATOM	38077	O	PRO	E	49	180.932	127.946	5.616	1.00	66.35	ES5
ATOM	38078	N	GLU	E	50	179.423	129.448	6.294	1.00	83.35	ES5
ATOM	38079	CA	GLU	E	50	179.156	128.711	7.529	1.00	83.35	ES5
ATOM	38080	CB	GLU	E	50	179.691	129.489	8.724	1.00	161.79	ES5
ATOM	38081	CG	GLU	E	50	181.147	129.857	8.583	1.00	161.79	ES5
ATOM	38082	CD	GLU	E	50	181.614	130.786	9.678	1.00	161.79	ES5
ATOM	38083	OE1	GLU	E	50	180.944	131.820	9.890	1.00	161.79	ES5
ATOM	38084	OE2	GLU	E	50	182.649	130.486	10.319	1.00	161.79	ES5
ATOM	38085	C	GLU	E	50	177.657	128.481	7.689	1.00	83.35	ES5
ATOM	38086	O	GLU	E	50	176.850	129.362	7.376	1.00	83.35	ES5
ATOM	38087	N	VAL	E	51	177.288	127.297	8.170	1.00	64.59	ES5
ATOM	38088	CA	VAL	E	51	175.879	126.943	8.379	1.00	64.59	ES5
ATOM	38089	CB	VAL	E	51	175.759	125.808	9.402	1.00	51.62	ES5
ATOM	38090	CG1	VAL	E	51	174.350	125.261	9.410	1.00	51.62	ES5
ATOM	38091	CG2	VAL	E	51	176.783	124.734	9.086	1.00	51.62	ES5
ATOM	38092	C	VAL	E	51	175.032	128.128	8.862	1.00	64.59	ES5
ATOM	38093	O	VAL	E	51	174.050	128.509	8.223	1.00	64.59	ES5
ATOM	38094	N	PRO	E	52	175.399	128.716	10.011	1.00	61.78	ES5
ATOM	38095	CD	PRO	E	52	176.440	128.242	10.943	1.00	64.62	ES5
ATOM	38096	CA	PRO	E	52	174.695	129.858	10.590	1.00	61.78	ES5
ATOM	38097	CB	PRO	E	52	175.632	130.284	11.699	1.00	64.62	ES5
ATOM	38098	CG	PRO	E	52	176.090	128.962	12.219	1.00	64.62	ES5
ATOM	38099	C	PRO	E	52	174.439	130.977	9.595	1.00	61.78	ES5
ATOM	38100	O	PRO	E	52	173.283	131.286	9.282	1.00	61.78	ES5
ATOM	38101	N	LEU	E	53	175.518	131.589	9.113	1.00	64.31	ES5
ATOM	38102	CA	LEU	E	53	175.404	132.672	8.142	1.00	64.31	ES5
ATOM	38103	CB	LEU	E	53	176.743	132.899	7.439	1.00	113.56	ES5

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ATOM	38104	CG	LEU	E	53	177.887	133.566	8.202	1.00113.56	ES5
ATOM	38105	CD1	LEU	E	53	179.154	133.569	7.347	1.00113.56	ES5
ATOM	38106	CD2	LEU	E	53	177.485	134.985	8.555	1.00113.56	ES5
ATOM	38107	C	LEU	E	53	174.347	132.318	7.096	1.00 64.31	ES5
ATOM	38108	O	LEU	E	53	173.505	133.154	6.725	1.00 64.31	ES5
ATOM	38109	N	ALA	E	54	174.400	131.061	6.646	1.00 75.79	ES5
ATOM	38110	CA	ALA	E	54	173.500	130.518	5.626	1.00 75.79	ES5
ATOM	38111	CB	ALA	E	54	173.961	129.131	5.227	1.00 77.08	ES5
ATOM	38112	C	ALA	E	54	172.055	130.457	6.064	1.00 75.79	ES5
ATOM	38113	O	ALA	E	54	171.154	130.841	5.313	1.00 75.79	ES5
ATOM	38114	N	VAL	E	55	171.842	129.950	7.277	1.00 62.51	ES5
ATOM	38115	CA	VAL	E	55	170.497	129.827	7.840	1.00 62.51	ES5
ATOM	38116	CB	VAL	E	55	170.530	129.266	9.263	1.00 67.71	ES5
ATOM	38117	CG1	VAL	E	55	169.115	128.958	9.710	1.00 67.71	ES5
ATOM	38118	CG2	VAL	E	55	171.417	128.026	9.320	1.00 67.71	ES5
ATOM	38119	C	VAL	E	55	169.847	131.196	7.907	1.00 62.51	ES5
ATOM	38120	O	VAL	E	55	168.708	131.390	7.484	1.00 62.51	ES5
ATOM	38121	N	GLN	E	56	170.594	132.147	8.451	1.00 63.88	ES5
ATOM	38122	CA	GLN	E	56	170.101	133.501	8.565	1.00 63.88	ES5
ATOM	38123	CB	GLN	E	56	171.146	134.392	9.239	1.00133.98	ES5
ATOM	38124	CG	GLN	E	56	170.661	134.950	10.565	1.00133.98	ES5
ATOM	38125	CD	GLN	E	56	169.799	133.950	11.333	1.00133.98	ES5
ATOM	38126	OE1	GLN	E	56	170.237	132.835	11.627	1.00133.98	ES5
ATOM	38127	NE2	GLN	E	56	168.566	134.345	11.655	1.00133.98	ES5
ATOM	38128	C	GLN	E	56	169.772	134.012	7.182	1.00 63.88	ES5
ATOM	38129	O	GLN	E	56	168.627	134.380	6.908	1.00 63.88	ES5
ATOM	38130	N	LYS	E	57	170.775	134.006	6.306	1.00 75.50	ES5
ATOM	38131	CA	LYS	E	57	170.586	134.483	4.945	1.00 75.50	ES5
ATOM	38132	CB	LYS	E	57	171.770	134.074	4.058	1.00 82.70	ES5
ATOM	38133	CG	LYS	E	57	171.853	134.868	2.738	1.00 82.70	ES5
ATOM	38134	CD	LYS	E	57	173.169	134.644	1.980	1.00 82.70	ES5
ATOM	38135	CE	LYS	E	57	174.371	135.146	2.778	1.00 82.70	ES5
ATOM	38136	NZ	LYS	E	57	175.674	134.818	2.137	1.00 82.70	ES5
ATOM	38137	C	LYS	E	57	169.281	133.921	4.395	1.00 75.50	ES5
ATOM	38138	O	LYS	E	57	168.492	134.644	3.784	1.00 75.50	ES5
ATOM	38139	N	ALA	E	58	169.042	132.636	4.638	1.00 62.58	ES5
ATOM	38140	CA	ALA	E	58	167.820	131.991	4.166	1.00 62.58	ES5
ATOM	38141	CB	ALA	E	58	167.850	130.508	4.525	1.00 56.52	ES5
ATOM	38142	C	ALA	E	58	166.575	132.672	4.768	1.00 62.58	ES5
ATOM	38143	O	ALA	E	58	165.687	133.129	4.031	1.00 62.58	ES5
ATOM	38144	N	GLY	E	59	166.523	132.738	6.105	1.00 72.54	ES5
ATOM	38145	CA	GLY	E	59	165.407	133.368	6.794	1.00 72.54	ES5
ATOM	38146	C	GLY	E	59	165.154	134.734	6.190	1.00 72.54	ES5
ATOM	38147	O	GLY	E	59	164.020	135.109	5.905	1.00 72.54	ES5
ATOM	38148	N	TYR	E	60	166.227	135.483	5.981	1.00 79.65	ES5
ATOM	38149	CA	TYR	E	60	166.112	136.807	5.398	1.00 79.65	ES5
ATOM	38150	CB	TYR	E	60	167.506	137.434	5.263	1.00 97.91	ES5
ATOM	38151	CG	TYR	E	60	167.554	138.732	4.484	1.00 97.91	ES5
ATOM	38152	CD1	TYR	E	60	166.792	139.841	4.861	1.00 97.91	ES5
ATOM	38153	CE1	TYR	E	60	166.842	141.031	4.129	1.00 97.91	ES5
ATOM	38154	CD2	TYR	E	60	168.366	138.846	3.361	1.00 97.91	ES5
ATOM	38155	CE2	TYR	E	60	168.425	140.023	2.622	1.00 97.91	ES5
ATOM	38156	CZ	TYR	E	60	167.665	141.113	3.003	1.00 97.91	ES5
ATOM	38157	OH	TYR	E	60	167.741	142.264	2.235	1.00 97.91	ES5
ATOM	38158	C	TYR	E	60	165.422	136.720	4.039	1.00 79.65	ES5
ATOM	38159	O	TYR	E	60	164.379	137.350	3.823	1.00 79.65	ES5
ATOM	38160	N	TYR	E	61	166.001	135.930	3.133	1.00 78.71	ES5
ATOM	38161	CA	TYR	E	61	165.446	135.760	1.790	1.00 78.71	ES5
ATOM	38162	CB	TYR	E	61	166.269	134.767	0.954	1.00104.52	ES5
ATOM	38163	CG	TYR	E	61	167.647	135.224	0.529	1.00104.52	ES5
ATOM	38164	CD1	TYR	E	61	167.898	136.557	0.194	1.00104.52	ES5
ATOM	38165	CE1	TYR	E	61	169.158	136.965	-0.247	1.00104.52	ES5
ATOM	38166	CD2	TYR	E	61	168.692	134.308	0.411	1.00104.52	ES5
ATOM	38167	CE2	TYR	E	61	169.952	134.704	-0.029	1.00104.52	ES5
ATOM	38168	CZ	TYR	E	61	170.179	136.032	-0.354	1.00104.52	ES5
ATOM	38169	OH	TYR	E	61	171.431	136.425	-0.766	1.00104.52	ES5
ATOM	38170	C	TYR	E	61	164.023	135.235	1.865	1.00 78.71	ES5
ATOM	38171	O	TYR	E	61	163.195	135.530	1.005	1.00 78.71	ES5
ATOM	38172	N	ALA	E	62	163.744	134.437	2.889	1.00 64.00	ES5
ATOM	38173	CA	ALA	E	62	162.417	133.864	3.044	1.00 64.00	ES5
ATOM	38174	CB	ALA	E	62	162.451	132.726	4.060	1.00 62.63	ES5
ATOM	38175	C	ALA	E	62	161.406	134.918	3.467	1.00 64.00	ES5
ATOM	38176	O	ALA	E	62	160.277	134.919	2.981	1.00 64.00	ES5
ATOM	38177	N	ARG	E	63	161.814	135.814	4.365	1.00 87.99	ES5
ATOM	38178	CA	ARG	E	63	160.918	136.858	4.845	1.00 87.99	ES5
ATOM	38179	CB	ARG	E	63	161.639	137.799	5.790	1.00 94.51	ES5
ATOM	38180	CG	ARG	E	63	160.715	138.344	6.846	1.00 94.51	ES5

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ATOM	38181	CD	ARG	E	63	161.371	138.214	8.188	1.00	94.51	ES5
ATOM	38182	NE	ARG	E	63	161.965	136.893	8.340	1.00	94.51	ES5
ATOM	38183	CZ	ARG	E	63	162.754	136.544	9.352	1.00	94.51	ES5
ATOM	38184	NH1	ARG	E	63	163.044	137.423	10.307	1.00	94.51	ES5
ATOM	38185	NH2	ARG	E	63	163.267	135.319	9.403	1.00	94.51	ES5
ATOM	38186	C	ARG	E	63	160.379	137.627	3.661	1.00	87.99	ES5
ATOM	38187	O	ARG	E	63	159.213	138.014	3.645	1.00	87.99	ES5
ATOM	38188	N	ARG	E	64	161.242	137.859	2.676	1.00	88.04	ES5
ATOM	38189	CA	ARG	E	64	160.843	138.524	1.441	1.00	88.04	ES5
ATOM	38190	CB	ARG	E	64	162.062	139.152	0.780	1.00130.45		ES5
ATOM	38191	CG	ARG	E	64	163.022	139.700	1.810	1.00130.45		ES5
ATOM	38192	CD	ARG	E	64	163.786	140.893	1.309	1.00130.45		ES5
ATOM	38193	NE	ARG	E	64	164.277	141.674	2.439	1.00130.45		ES5
ATOM	38194	CZ	ARG	E	64	164.785	142.899	2.345	1.00130.45		ES5
ATOM	38195	NH1	ARG	E	64	164.873	143.495	1.162	1.00130.45		ES5
ATOM	38196	NH2	ARG	E	64	165.194	143.534	3.439	1.00130.45		ES5
ATOM	38197	C	ARG	E	64	160.331	137.320	0.655	1.00	88.04	ES5
ATOM	38198	O	ARG	E	64	160.765	136.196	0.911	1.00	88.04	ES5
ATOM	38199	N	ASN	E	65	159.415	137.524	-0.281	1.00	87.96	ES5
ATOM	38200	CA	ASN	E	65	158.846	136.387	-1.016	1.00	87.96	ES5
ATOM	38201	CB	ASN	E	65	159.934	135.419	-1.508	1.00102.46		ES5
ATOM	38202	CG	ASN	E	65	159.358	134.084	-1.984	1.00102.46		ES5
ATOM	38203	OD1	ASN	E	65	158.587	134.030	-2.945	1.00102.46		ES5
ATOM	38204	ND2	ASN	E	65	159.723	133.004	-1.299	1.00102.46		ES5
ATOM	38205	C	ASN	E	65	157.870	135.619	-0.112	1.00	87.96	ES5
ATOM	38206	O	ASN	E	65	158.058	134.436	0.181	1.00	87.96	ES5
ATOM	38207	N	MET	E	66	156.830	136.313	0.333	1.00	81.37	ES5
ATOM	38208	CA	MET	E	66	155.813	135.716	1.182	1.00	81.37	ES5
ATOM	38209	CB	MET	E	66	155.332	136.726	2.219	1.00	88.06	ES5
ATOM	38210	CG	MET	E	66	156.393	137.236	3.162	1.00	88.06	ES5
ATOM	38211	SD	MET	E	66	156.902	135.977	4.322	1.00	88.06	ES5
ATOM	38212	CE	MET	E	66	155.331	135.552	5.072	1.00	88.06	ES5
ATOM	38213	C	MET	E	66	154.632	135.328	0.301	1.00	81.37	ES5
ATOM	38214	O	MET	E	66	154.578	135.678	-0.883	1.00	81.37	ES5
ATOM	38215	N	VAL	E	67	153.682	134.605	0.876	1.00	70.49	ES5
ATOM	38216	CA	VAL	E	67	152.508	134.227	0.119	1.00	70.49	ES5
ATOM	38217	CB	VAL	E	67	152.674	132.829	-0.525	1.00	53.27	ES5
ATOM	38218	CG1	VAL	E	67	151.431	132.457	-1.346	1.00	53.27	ES5
ATOM	38219	CG2	VAL	E	67	153.897	132.824	-1.406	1.00	53.27	ES5
ATOM	38220	C	VAL	E	67	151.295	134.230	1.037	1.00	70.49	ES5
ATOM	38221	O	VAL	E	67	151.373	133.791	2.192	1.00	70.49	ES5
ATOM	38222	N	GLU	E	68	150.187	134.750	0.508	1.00	79.63	ES5
ATOM	38223	CA	GLU	E	68	148.913	134.820	1.216	1.00	79.63	ES5
ATOM	38224	CB	GLU	E	68	148.108	136.030	0.730	1.00147.93		ES5
ATOM	38225	CG	GLU	E	68	147.953	137.150	1.742	1.00147.93		ES5
ATOM	38226	CD	GLU	E	68	149.281	137.654	2.267	1.00147.93		ES5
ATOM	38227	OE1	GLU	E	68	150.152	138.042	1.457	1.00147.93		ES5
ATOM	38228	OE2	GLU	E	68	149.452	137.665	3.501	1.00147.93		ES5
ATOM	38229	C	GLU	E	68	148.133	133.541	0.908	1.00	79.63	ES5
ATOM	38230	O	GLU	E	68	147.632	133.373	-0.202	1.00	79.63	ES5
ATOM	38231	N	VAL	E	69	148.029	132.643	1.882	1.00	70.51	ES5
ATOM	38232	CA	VAL	E	69	147.307	131.394	1.681	1.00	70.51	ES5
ATOM	38233	CB	VAL	E	69	147.894	130.286	2.557	1.00	77.53	ES5
ATOM	38234	CG1	VAL	E	69	147.397	128.931	2.079	1.00	77.53	ES5
ATOM	38235	CG2	VAL	E	69	149.411	130.362	2.539	1.00	77.53	ES5
ATOM	38236	C	VAL	E	69	145.829	131.559	2.039	1.00	70.51	ES5
ATOM	38237	O	VAL	E	69	145.487	131.793	3.195	1.00	70.51	ES5
ATOM	38238	N	PRO	E	70	144.932	131.436	1.052	1.00	58.01	ES5
ATOM	38239	CD	PRO	E	70	145.199	131.329	-0.391	1.00102.67		ES5
ATOM	38240	CA	PRO	E	70	143.493	131.583	1.301	1.00	58.01	ES5
ATOM	38241	CB	PRO	E	70	142.890	131.496	-0.103	1.00102.67		ES5
ATOM	38242	CG	PRO	E	70	143.991	132.005	-0.982	1.00102.67		ES5
ATOM	38243	C	PRO	E	70	142.913	130.515	2.218	1.00	58.01	ES5
ATOM	38244	O	PRO	E	70	142.156	129.667	1.762	1.00	58.01	ES5
ATOM	38245	N	LEU	E	71	143.243	130.546	3.503	1.00	76.52	ES5
ATOM	38246	CA	LEU	E	71	142.720	129.534	4.421	1.00	76.52	ES5
ATOM	38247	CB	LEU	E	71	143.410	129.652	5.779	1.00	93.89	ES5
ATOM	38248	CG	LEU	E	71	144.937	129.572	5.745	1.00	93.89	ES5
ATOM	38249	CD1	LEU	E	71	145.517	129.907	7.119	1.00	93.89	ES5
ATOM	38250	CD2	LEU	E	71	145.355	128.179	5.296	1.00	93.89	ES5
ATOM	38251	C	LEU	E	71	141.200	129.607	4.616	1.00	76.52	ES5
ATOM	38252	O	LEU	E	71	140.630	130.676	4.812	1.00	76.52	ES5
ATOM	38253	N	GLN	E	72	140.535	128.466	4.533	1.00	71.75	ES5
ATOM	38254	CA	GLN	E	72	139.102	128.432	4.746	1.00	71.75	ES5
ATOM	38255	CB	GLN	E	72	138.344	128.032	3.485	1.00	99.13	ES5
ATOM	38256	CG	GLN	E	72	138.479	128.983	2.326	1.00	99.13	ES5
ATOM	38257	CD	GLN	E	72	137.529	128.627	1.191	1.00	99.13	ES5

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ATOM	38258	OE1	GLN	E	72	137.326	127.451	0.886	1.00	99.13	ES5
ATOM	38259	NE2	GLN	E	72	136.949	129.642	0.555	1.00	99.13	ES5
ATOM	38260	C	GLN	E	72	138.864	127.380	5.805	1.00	71.75	ES5
ATOM	38261	O	GLN	E	72	138.969	126.186	5.534	1.00	71.75	ES5
ATOM	38262	N	ASN	E	73	138.575	127.825	7.020	1.00	100.32	ES5
ATOM	38263	CA	ASN	E	73	138.298	126.903	8.106	1.00	100.32	ES5
ATOM	38264	CB	ASN	E	73	137.039	126.100	7.770	1.00	129.40	ES5
ATOM	38265	CG	ASN	E	73	136.485	125.355	8.961	1.00	129.40	ES5
ATOM	38266	OD1	ASN	E	73	135.607	124.504	8.816	1.00	129.40	ES5
ATOM	38267	ND2	ASN	E	73	136.988	125.676	10.152	1.00	129.40	ES5
ATOM	38268	C	ASN	E	73	139.478	125.962	8.340	1.00	100.32	ES5
ATOM	38269	O	ASN	E	73	139.308	124.750	8.494	1.00	100.32	ES5
ATOM	38270	N	GLY	E	74	140.680	126.525	8.354	1.00	79.47	ES5
ATOM	38271	CA	GLY	E	74	141.864	125.713	8.587	1.00	79.47	ES5
ATOM	38272	C	GLY	E	74	142.334	124.823	7.444	1.00	79.47	ES5
ATOM	38273	O	GLY	E	74	143.405	124.217	7.543	1.00	79.47	ES5
ATOM	38274	N	THR	E	75	141.547	124.738	6.368	1.00	71.21	ES5
ATOM	38275	CA	THR	E	75	141.906	123.917	5.208	1.00	71.21	ES5
ATOM	38276	CB	THR	E	75	140.798	122.911	4.854	1.00	70.81	ES5
ATOM	38277	OG1	THR	E	75	141.299	121.949	3.919	1.00	70.81	ES5
ATOM	38278	CG2	THR	E	75	139.617	123.627	4.234	1.00	70.81	ES5
ATOM	38279	C	THR	E	75	142.161	124.783	3.986	1.00	71.21	ES5
ATOM	38280	O	THR	E	75	142.541	125.945	4.108	1.00	71.21	ES5
ATOM	38281	N	ILE	E	76	141.927	124.218	2.808	1.00	61.60	ES5
ATOM	38282	CA	ILE	E	76	142.171	124.927	1.563	1.00	61.60	ES5
ATOM	38283	CB	ILE	E	76	143.480	124.405	0.939	1.00	68.32	ES5
ATOM	38284	CG2	ILE	E	76	143.392	124.339	-0.558	1.00	68.32	ES5
ATOM	38285	CG1	ILE	E	76	144.621	125.302	1.392	1.00	68.32	ES5
ATOM	38286	CD1	ILE	E	76	145.958	124.870	0.894	1.00	68.32	ES5
ATOM	38287	C	ILE	E	76	141.018	124.853	0.566	1.00	61.60	ES5
ATOM	38288	O	ILE	E	76	140.374	123.820	0.422	1.00	61.60	ES5
ATOM	38289	N	PRO	E	77	140.764	125.959	-0.153	1.00	60.03	ES5
ATOM	38290	CD	PRO	E	77	141.680	127.110	-0.176	1.00	55.03	ES5
ATOM	38291	CA	PRO	E	77	139.710	126.133	-1.159	1.00	60.03	ES5
ATOM	38292	CB	PRO	E	77	140.036	127.481	-1.785	1.00	55.03	ES5
ATOM	38293	CG	PRO	E	77	141.506	127.597	-1.602	1.00	55.03	ES5
ATOM	38294	C	PRO	E	77	139.510	125.063	-2.200	1.00	60.03	ES5
ATOM	38295	O	PRO	E	77	138.416	124.936	-2.719	1.00	60.03	ES5
ATOM	38296	N	HIS	E	78	140.535	124.298	-2.527	1.00	61.89	ES5
ATOM	38297	CA	HIS	E	78	140.364	123.236	-3.522	1.00	61.89	ES5
ATOM	38298	CB	HIS	E	78	139.889	123.811	-4.855	1.00	73.78	ES5
ATOM	38299	CG	HIS	E	78	140.788	124.875	-5.390	1.00	73.78	ES5
ATOM	38300	CD2	HIS	E	78	140.607	126.210	-5.526	1.00	73.78	ES5
ATOM	38301	ND1	HIS	E	78	142.088	124.621	-5.773	1.00	73.78	ES5
ATOM	38302	CE1	HIS	E	78	142.671	125.757	-6.115	1.00	73.78	ES5
ATOM	38303	NE2	HIS	E	78	141.795	126.736	-5.973	1.00	73.78	ES5
ATOM	38304	C	HIS	E	78	141.676	122.518	-3.740	1.00	61.89	ES5
ATOM	38305	O	HIS	E	78	142.711	122.933	-3.220	1.00	61.89	ES5
ATOM	38306	N	GLU	E	79	141.640	121.452	-4.527	1.00	75.82	ES5
ATOM	38307	CA	GLU	E	79	142.842	120.678	-4.783	1.00	75.82	ES5
ATOM	38308	CB	GLU	E	79	142.478	119.209	-4.994	1.00	118.53	ES5
ATOM	38309	CG	GLU	E	79	141.002	118.924	-4.804	1.00	118.53	ES5
ATOM	38310	CD	GLU	E	79	140.143	119.586	-5.866	1.00	118.53	ES5
ATOM	38311	OE1	GLU	E	79	140.657	120.477	-6.573	1.00	118.53	ES5
ATOM	38312	OE2	GLU	E	79	138.952	119.224	-5.991	1.00	118.53	ES5
ATOM	38313	C	GLU	E	79	143.610	121.200	-5.985	1.00	75.82	ES5
ATOM	38314	O	GLU	E	79	143.025	121.508	-7.015	1.00	75.82	ES5
ATOM	38315	N	ILE	E	80	144.924	121.326	-5.826	1.00	63.52	ES5
ATOM	38316	CA	ILE	E	80	145.807	121.760	-6.902	1.00	63.52	ES5
ATOM	38317	CB	ILE	E	80	146.610	123.065	-6.595	1.00	74.67	ES5
ATOM	38318	CG2	ILE	E	80	146.350	124.123	-7.633	1.00	74.67	ES5
ATOM	38319	CG1	ILE	E	80	146.305	123.543	-5.195	1.00	74.67	ES5
ATOM	38320	CD1	ILE	E	80	146.901	122.649	-4.159	1.00	74.67	ES5
ATOM	38321	C	ILE	E	80	146.862	120.681	-7.033	1.00	63.52	ES5
ATOM	38322	O	ILE	E	80	147.099	119.895	-6.105	1.00	63.52	ES5
ATOM	38323	N	GLU	E	81	147.483	120.657	-8.204	1.00	67.74	ES5
ATOM	38324	CA	GLU	E	81	148.570	119.750	-8.497	1.00	67.74	ES5
ATOM	38325	CB	GLU	E	81	148.093	118.571	-9.338	1.00	150.58	ES5
ATOM	38326	CG	GLU	E	81	147.331	117.565	-8.489	1.00	150.58	ES5
ATOM	38327	CD	GLU	E	81	146.935	116.319	-9.245	1.00	150.58	ES5
ATOM	38328	OE1	GLU	E	81	147.818	115.728	-9.904	1.00	150.58	ES5
ATOM	38329	OE2	GLU	E	81	145.747	115.928	-9.169	1.00	150.58	ES5
ATOM	38330	C	GLU	E	81	149.556	120.633	-9.231	1.00	67.74	ES5
ATOM	38331	O	GLU	E	81	149.247	121.220	-10.266	1.00	67.74	ES5
ATOM	38332	N	VAL	E	82	150.729	120.776	-8.635	1.00	55.44	ES5
ATOM	38333	CA	VAL	E	82	151.777	121.601	-9.188	1.00	55.44	ES5
ATOM	38334	CB	VAL	E	82	152.157	122.702	-8.200	1.00	49.61	ES5

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ATOM	38335	CG1	VAL	E	82	153.659	122.957	-8.234	1.00	49.61	ESS
ATOM	38336	CG2	VAL	E	82	151.381	123.966	-8.530	1.00	49.61	ESS
ATOM	38337	C	VAL	E	82	152.995	120.760	-9.502	1.00	55.44	ESS
ATOM	38338	O	VAL	E	82	153.316	119.796	-8.795	1.00	55.44	ESS
ATOM	38339	N	GLU	E	83	153.667	121.134	-10.581	1.00	74.86	ESS
ATOM	38340	CA	GLU	E	83	154.860	120.438	-11.024	1.00	74.86	ESS
ATOM	38341	CB	GLU	E	83	154.625	119.833	-12.413	1.00	120.75	ESS
ATOM	38342	CG	GLU	E	83	154.161	118.380	-12.403	1.00	120.75	ESS
ATOM	38343	CD	GLU	E	83	153.720	117.883	-13.778	1.00	120.75	ESS
ATOM	38344	OE1	GLU	E	83	154.427	118.155	-14.773	1.00	120.75	ESS
ATOM	38345	OE2	GLU	E	83	152.669	117.205	-13.863	1.00	120.75	ESS
ATOM	38346	C	GLU	E	83	156.007	121.429	-11.084	1.00	74.86	ESS
ATOM	38347	O	GLU	E	83	155.908	122.464	-11.731	1.00	74.86	ESS
ATOM	38348	N	PHE	E	84	157.087	121.135	-10.383	1.00	71.27	ESS
ATOM	38349	CA	PHE	E	84	158.244	122.008	-10.423	1.00	71.27	ESS
ATOM	38350	CB	PHE	E	84	158.446	122.724	-9.106	1.00	61.02	ESS
ATOM	38351	CG	PHE	E	84	159.463	123.816	-9.174	1.00	61.02	ESS
ATOM	38352	CD1	PHE	E	84	159.141	125.049	-9.730	1.00	61.02	ESS
ATOM	38353	CD2	PHE	E	84	160.739	123.629	-8.655	1.00	61.02	ESS
ATOM	38354	CE1	PHE	E	84	160.074	126.096	-9.766	1.00	61.02	ESS
ATOM	38355	CE2	PHE	E	84	161.682	124.665	-8.686	1.00	61.02	ESS
ATOM	38356	CZ	PHE	E	84	161.344	125.905	-9.243	1.00	61.02	ESS
ATOM	38357	C	PHE	E	84	159.418	121.094	-10.692	1.00	71.27	ESS
ATOM	38358	O	PHE	E	84	159.890	120.380	-9.798	1.00	71.27	ESS
ATOM	38359	N	GLY	E	85	159.877	121.114	-11.937	1.00	66.53	ESS
ATOM	38360	CA	GLY	E	85	160.974	120.261	-12.329	1.00	66.53	ESS
ATOM	38361	C	GLY	E	85	160.408	118.871	-12.519	1.00	66.53	ESS
ATOM	38362	O	GLY	E	85	159.393	118.677	-13.200	1.00	66.53	ESS
ATOM	38363	N	ALA	E	86	161.060	117.892	-11.914	1.00	62.65	ESS
ATOM	38364	CA	ALA	E	86	160.586	116.531	-12.033	1.00	62.65	ESS
ATOM	38365	CB	ALA	E	86	161.762	115.577	-12.031	1.00	89.91	ESS
ATOM	38366	C	ALA	E	86	159.695	116.278	-10.837	1.00	62.65	ESS
ATOM	38367	O	ALA	E	86	159.194	115.167	-10.638	1.00	62.65	ESS
ATOM	38368	N	SER	E	87	159.491	117.338	-10.058	1.00	70.72	ESS
ATOM	38369	CA	SER	E	87	158.701	117.280	-8.836	1.00	70.72	ESS
ATOM	38370	CB	SER	E	87	159.408	118.111	-7.777	1.00	52.52	ESS
ATOM	38371	OG	SER	E	87	160.809	117.912	-7.862	1.00	52.52	ESS
ATOM	38372	C	SER	E	87	157.248	117.741	-8.979	1.00	70.72	ESS
ATOM	38373	O	SER	E	87	156.967	118.861	-9.410	1.00	70.72	ESS
ATOM	38374	N	LYS	E	88	156.330	116.857	-8.610	1.00	63.76	ESS
ATOM	38375	CA	LYS	E	88	154.893	117.119	-8.669	1.00	63.76	ESS
ATOM	38376	CB	LYS	E	88	154.191	115.930	-9.341	1.00	69.32	ESS
ATOM	38377	CG	LYS	E	88	152.829	116.172	-10.003	1.00	69.32	ESS
ATOM	38378	CD	LYS	E	88	152.299	114.826	-10.582	1.00	69.32	ESS
ATOM	38379	CE	LYS	E	88	151.342	114.980	-11.778	1.00	69.32	ESS
ATOM	38380	NZ	LYS	E	88	150.013	115.520	-11.405	1.00	69.32	ESS
ATOM	38381	C	LYS	E	88	154.505	117.193	-7.194	1.00	63.76	ESS
ATOM	38382	O	LYS	E	88	155.206	116.656	-6.338	1.00	63.76	ESS
ATOM	38383	N	ILE	E	89	153.406	117.862	-6.884	1.00	55.30	ESS
ATOM	38384	CA	ILE	E	89	152.966	117.969	-5.498	1.00	55.30	ESS
ATOM	38385	CB	ILE	E	89	153.566	119.246	-4.808	1.00	45.31	ESS
ATOM	38386	CG2	ILE	E	89	152.767	120.501	-5.190	1.00	45.31	ESS
ATOM	38387	CG1	ILE	E	89	153.674	119.032	-3.286	1.00	45.31	ESS
ATOM	38388	CD1	ILE	E	89	152.396	118.684	-2.596	1.00	45.31	ESS
ATOM	38389	C	ILE	E	89	151.457	118.037	-5.555	1.00	55.30	ESS
ATOM	38390	O	ILE	E	89	150.884	118.748	-6.371	1.00	55.30	ESS
ATOM	38391	N	VAL	E	90	150.797	117.266	-4.719	1.00	68.22	ESS
ATOM	38392	CA	VAL	E	90	149.356	117.297	-4.749	1.00	68.22	ESS
ATOM	38393	CB	VAL	E	90	148.768	115.927	-5.088	1.00	44.11	ESS
ATOM	38394	CG1	VAL	E	90	147.257	115.984	-4.960	1.00	44.11	ESS
ATOM	38395	CG2	VAL	E	90	149.183	115.516	-6.506	1.00	44.11	ESS
ATOM	38396	C	VAL	E	90	148.804	117.738	-3.419	1.00	68.22	ESS
ATOM	38397	O	VAL	E	90	149.267	117.310	-2.354	1.00	68.22	ESS
ATOM	38398	N	LEU	E	91	147.803	118.600	-3.490	1.00	72.82	ESS
ATOM	38399	CA	LEU	E	91	147.168	119.101	-2.294	1.00	72.82	ESS
ATOM	38400	CB	LEU	E	91	147.526	120.569	-2.100	1.00	45.15	ESS
ATOM	38401	CG	LEU	E	91	149.013	120.923	-2.056	1.00	45.15	ESS
ATOM	38402	CD1	LEU	E	91	149.158	122.437	-1.946	1.00	45.15	ESS
ATOM	38403	CD2	LEU	E	91	149.682	120.238	-0.877	1.00	45.15	ESS
ATOM	38404	C	LEU	E	91	145.659	118.918	-2.410	1.00	72.82	ESS
ATOM	38405	O	LEU	E	91	145.019	119.388	-3.352	1.00	72.82	ESS
ATOM	38406	N	LYS	E	92	145.096	118.211	-1.446	1.00	65.79	ESS
ATOM	38407	CA	LYS	E	92	143.671	117.959	-1.430	1.00	65.79	ESS
ATOM	38408	CB	LYS	E	92	143.431	116.461	-1.471	1.00	86.03	ESS
ATOM	38409	CG	LYS	E	92	142.161	116.055	-2.138	1.00	86.03	ESS
ATOM	38410	CD	LYS	E	92	142.069	114.552	-2.130	1.00	86.03	ESS
ATOM	38411	CE	LYS	E	92	140.865	114.069	-2.906	1.00	86.03	ESS

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ATOM	38412	NZ	LYS	E	92	140.735	112.595	-2.776	1.00	86.03	ES5
ATOM	38413	C	LYS	E	92	143.165	118.538	-0.116	1.00	65.79	ES5
ATOM	38414	O	LYS	E	92	143.743	118.296	0.947	1.00	65.79	ES5
ATOM	38415	N	PRO	E	93	142.086	119.323	-0.167	1.00	63.72	ES5
ATOM	38416	CD	PRO	E	93	141.244	119.634	-1.336	1.00	56.69	ES5
ATOM	38417	CA	PRO	E	93	141.535	119.922	1.052	1.00	63.72	ES5
ATOM	38418	CB	PRO	E	93	140.579	120.965	0.501	1.00	56.69	ES5
ATOM	38419	CG	PRO	E	93	140.011	120.264	-0.701	1.00	56.69	ES5
ATOM	38420	C	PRO	E	93	140.824	118.853	1.869	1.00	63.72	ES5
ATOM	38421	O	PRO	E	93	140.325	117.880	1.304	1.00	63.72	ES5
ATOM	38422	N	ALA	E	94	140.770	119.019	3.186	1.00	63.61	ES5
ATOM	38423	CA	ALA	E	94	140.103	118.020	4.012	1.00	63.61	ES5
ATOM	38424	CB	ALA	E	94	141.116	117.037	4.551	1.00	66.73	ES5
ATOM	38425	C	ALA	E	94	139.292	118.591	5.162	1.00	63.61	ES5
ATOM	38426	O	ALA	E	94	139.544	119.707	5.632	1.00	63.61	ES5
ATOM	38427	N	ALA	E	95	138.317	117.805	5.612	1.00	62.35	ES5
ATOM	38428	CA	ALA	E	95	137.457	118.197	6.719	1.00	62.35	ES5
ATOM	38429	CB	ALA	E	95	136.357	117.160	6.935	1.00	77.64	ES5
ATOM	38430	C	ALA	E	95	138.299	118.303	7.967	1.00	62.35	ES5
ATOM	38431	O	ALA	E	95	139.426	117.819	8.017	1.00	62.35	ES5
ATOM	38432	N	PRO	E	96	137.757	118.953	8.994	1.00	63.17	ES5
ATOM	38433	CD	PRO	E	96	136.578	119.825	8.872	1.00	83.06	ES5
ATOM	38434	CA	PRO	E	96	138.421	119.150	10.286	1.00	63.17	ES5
ATOM	38435	CB	PRO	E	96	137.455	120.069	11.021	1.00	83.06	ES5
ATOM	38436	CG	PRO	E	96	136.872	120.882	9.896	1.00	83.06	ES5
ATOM	38437	C	PRO	E	96	138.641	117.834	11.026	1.00	63.17	ES5
ATOM	38438	O	PRO	E	96	137.801	116.938	10.961	1.00	63.17	ES5
ATOM	38439	N	GLY	E	97	139.769	117.728	11.729	1.00	87.94	ES5
ATOM	38440	CA	GLY	E	97	140.071	116.514	12.472	1.00	87.94	ES5
ATOM	38441	C	GLY	E	97	140.815	115.505	11.620	1.00	87.94	ES5
ATOM	38442	O	GLY	E	97	140.951	114.337	11.970	1.00	87.94	ES5
ATOM	38443	N	THR	E	98	141.298	115.976	10.483	1.00	62.08	ES5
ATOM	38444	CA	THR	E	98	142.034	115.148	9.547	1.00	62.08	ES5
ATOM	38445	CB	THR	E	98	141.792	115.628	8.088	1.00	53.88	ES5
ATOM	38446	OG1	THR	E	98	140.484	115.226	7.651	1.00	53.88	ES5
ATOM	38447	CG2	THR	E	98	142.845	115.057	7.156	1.00	53.88	ES5
ATOM	38448	C	THR	E	98	143.527	115.238	9.851	1.00	62.08	ES5
ATOM	38449	O	THR	E	98	144.276	114.268	9.671	1.00	62.08	ES5
ATOM	38450	N	GLY	E	99	143.945	116.415	10.313	1.00	74.86	ES5
ATOM	38451	CA	GLY	E	99	145.346	116.669	10.609	1.00	74.86	ES5
ATOM	38452	C	GLY	E	99	146.084	117.081	9.342	1.00	74.86	ES5
ATOM	38453	O	GLY	E	99	145.463	117.354	8.300	1.00	74.86	ES5
ATOM	38454	N	VAL	E	100	147.410	117.143	9.414	1.00	76.36	ES5
ATOM	38455	CA	VAL	E	100	148.185	117.498	8.232	1.00	76.36	ES5
ATOM	38456	CB	VAL	E	100	149.272	118.517	8.540	1.00	57.48	ES5
ATOM	38457	CG1	VAL	E	100	149.699	119.198	7.258	1.00	57.48	ES5
ATOM	38458	CG2	VAL	E	100	148.772	119.518	9.560	1.00	57.48	ES5
ATOM	38459	C	VAL	E	100	148.864	116.247	7.712	1.00	76.36	ES5
ATOM	38460	O	VAL	E	100	149.872	115.803	8.267	1.00	76.36	ES5
ATOM	38461	N	ILE	E	101	148.307	115.666	6.659	1.00	68.59	ES5
ATOM	38462	CA	ILE	E	101	148.892	114.468	6.088	1.00	68.59	ES5
ATOM	38463	CB	ILE	E	101	147.814	113.490	5.667	1.00	72.72	ES5
ATOM	38464	CG2	ILE	E	101	148.436	112.201	5.177	1.00	72.72	ES5
ATOM	38465	CG1	ILE	E	101	146.930	113.200	6.870	1.00	72.72	ES5
ATOM	38466	CD1	ILE	E	101	145.975	112.051	6.632	1.00	72.72	ES5
ATOM	38467	C	ILE	E	101	149.772	114.825	4.896	1.00	68.59	ES5
ATOM	38468	O	ILE	E	101	149.303	114.983	3.764	1.00	68.59	ES5
ATOM	38469	N	ALA	E	102	151.062	114.954	5.174	1.00	61.20	ES5
ATOM	38470	CA	ALA	E	102	152.020	115.305	4.152	1.00	61.20	ES5
ATOM	38471	CB	ALA	E	102	151.945	116.793	3.867	1.00	69.97	ES5
ATOM	38472	C	ALA	E	102	153.422	114.935	4.604	1.00	61.20	ES5
ATOM	38473	O	ALA	E	102	153.651	114.604	5.772	1.00	61.20	ES5
ATOM	38474	N	GLY	E	103	154.356	114.992	3.661	1.00	61.58	ES5
ATOM	38475	CA	GLY	E	103	155.733	114.676	3.969	1.00	61.58	ES5
ATOM	38476	C	GLY	E	103	156.379	115.783	4.770	1.00	61.58	ES5
ATOM	38477	O	GLY	E	103	155.828	116.871	4.915	1.00	61.58	ES5
ATOM	38478	N	ALA	E	104	157.570	115.501	5.275	1.00	68.13	ES5
ATOM	38479	CA	ALA	E	104	158.304	116.455	6.085	1.00	68.13	ES5
ATOM	38480	CB	ALA	E	104	159.654	115.883	6.441	1.00	110.70	ES5
ATOM	38481	C	ALA	E	104	158.476	117.838	5.475	1.00	68.13	ES5
ATOM	38482	O	ALA	E	104	158.515	118.825	6.205	1.00	68.13	ES5
ATOM	38483	N	VAL	E	105	158.587	117.938	4.157	1.00	68.08	ES5
ATOM	38484	CA	VAL	E	105	158.766	119.257	3.565	1.00	68.08	ES5
ATOM	38485	CB	VAL	E	105	159.600	119.180	2.264	1.00	46.47	ES5
ATOM	38486	CG1	VAL	E	105	159.428	120.462	1.425	1.00	46.47	ES5
ATOM	38487	CG2	VAL	E	105	161.065	118.990	2.623	1.00	46.47	ES5
ATOM	38488	C	VAL	E	105	157.448	119.975	3.305	1.00	68.08	ES5

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ATOM	38489	O	VAL	E	105	157.192	121.039	3.881	1.00	68.08	ES5
ATOM	38490	N	PRO	E	106	156.587	119.401	2.448	1.00	67.22	ES5
ATOM	38491	CD	PRO	E	106	156.654	118.047	1.878	1.00	71.66	ES5
ATOM	38492	CA	PRO	E	106	155.297	120.024	2.139	1.00	67.22	ES5
ATOM	38493	CB	PRO	E	106	154.535	118.910	1.432	1.00	71.66	ES5
ATOM	38494	CG	PRO	E	106	155.605	118.118	0.800	1.00	71.66	ES5
ATOM	38495	C	PRO	E	106	154.609	120.432	3.431	1.00	67.22	ES5
ATOM	38496	O	PRO	E	106	153.918	121.452	3.496	1.00	67.22	ES5
ATOM	38497	N	ARG	E	107	154.807	119.612	4.457	1.00	75.99	ES5
ATOM	38498	CA	ARG	E	107	154.220	119.856	5.764	1.00	75.99	ES5
ATOM	38499	CB	ARG	E	107	154.559	118.702	6.707	1.00	76.97	ES5
ATOM	38500	CG	ARG	E	107	154.738	119.113	8.152	1.00	76.97	ES5
ATOM	38501	CD	ARG	E	107	154.915	117.907	9.034	1.00	76.97	ES5
ATOM	38502	NE	ARG	E	107	153.680	117.138	9.125	1.00	76.97	ES5
ATOM	38503	CZ	ARG	E	107	153.595	115.839	8.862	1.00	76.97	ES5
ATOM	38504	NH1	ARG	E	107	154.680	115.156	8.483	1.00	76.97	ES5
ATOM	38505	NH2	ARG	E	107	152.422	115.224	8.986	1.00	76.97	ES5
ATOM	38506	C	ARG	E	107	154.705	121.169	6.354	1.00	75.99	ES5
ATOM	38507	O	ARG	E	107	153.921	122.098	6.543	1.00	75.99	ES5
ATOM	38508	N	ALA	E	108	156.000	121.236	6.641	1.00	56.85	ES5
ATOM	38509	CA	ALA	E	108	156.611	122.426	7.221	1.00	56.85	ES5
ATOM	38510	CB	ALA	E	108	158.116	122.346	7.085	1.00	55.73	ES5
ATOM	38511	C	ALA	E	108	156.100	123.701	6.567	1.00	56.85	ES5
ATOM	38512	O	ALA	E	108	155.830	124.698	7.232	1.00	56.85	ES5
ATOM	38513	N	ILE	E	109	155.976	123.674	5.250	1.00	71.77	ES5
ATOM	38514	CA	ILE	E	109	155.487	124.836	4.530	1.00	71.77	ES5
ATOM	38515	CB	ILE	E	109	155.640	124.615	3.039	1.00	58.84	ES5
ATOM	38516	CG2	ILE	E	109	154.993	125.739	2.270	1.00	58.84	ES5
ATOM	38517	CG1	ILE	E	109	157.114	124.492	2.710	1.00	58.84	ES5
ATOM	38518	CD1	ILE	E	109	157.350	123.788	1.417	1.00	58.84	ES5
ATOM	38519	C	ILE	E	109	154.016	125.051	4.859	1.00	71.77	ES5
ATOM	38520	O	ILE	E	109	153.591	126.167	5.131	1.00	71.77	ES5
ATOM	38521	N	LEU	E	110	153.252	123.963	4.839	1.00	67.44	ES5
ATOM	38522	CA	LEU	E	110	151.826	124.009	5.117	1.00	67.44	ES5
ATOM	38523	CB	LEU	E	110	151.162	122.686	4.714	1.00	38.30	ES5
ATOM	38524	CG	LEU	E	110	151.013	122.493	3.204	1.00	38.30	ES5
ATOM	38525	CD1	LEU	E	110	150.260	121.191	2.935	1.00	38.30	ES5
ATOM	38526	CD2	LEU	E	110	150.271	123.707	2.595	1.00	38.30	ES5
ATOM	38527	C	LEU	E	110	151.482	124.334	6.560	1.00	67.44	ES5
ATOM	38528	O	LEU	E	110	150.479	124.995	6.808	1.00	67.44	ES5
ATOM	38529	N	GLU	E	111	152.301	123.882	7.508	1.00	79.12	ES5
ATOM	38530	CA	GLU	E	111	152.025	124.150	8.917	1.00	79.12	ES5
ATOM	38531	CB	GLU	E	111	152.955	123.334	9.813	1.00	138.56	ES5
ATOM	38532	CG	GLU	E	111	152.764	121.838	9.609	1.00	138.56	ES5
ATOM	38533	CD	GLU	E	111	153.294	120.989	10.754	1.00	138.56	ES5
ATOM	38534	OE1	GLU	E	111	154.502	121.084	11.076	1.00	138.56	ES5
ATOM	38535	OE2	GLU	E	111	152.490	120.216	11.326	1.00	138.56	ES5
ATOM	38536	C	GLU	E	111	152.108	125.639	9.245	1.00	79.12	ES5
ATOM	38537	O	GLU	E	111	151.234	126.169	9.934	1.00	79.12	ES5
ATOM	38538	N	LEU	E	112	153.131	126.325	8.751	1.00	53.46	ES5
ATOM	38539	CA	LEU	E	112	153.217	127.749	9.013	1.00	53.46	ES5
ATOM	38540	CB	LEU	E	112	154.595	128.304	8.715	1.00	51.68	ES5
ATOM	38541	CG	LEU	E	112	155.758	127.523	9.287	1.00	51.68	ES5
ATOM	38542	CD1	LEU	E	112	156.913	128.482	9.527	1.00	51.68	ES5
ATOM	38543	CD2	LEU	E	112	155.345	126.856	10.582	1.00	51.68	ES5
ATOM	38544	C	LEU	E	112	152.243	128.431	8.094	1.00	53.46	ES5
ATOM	38545	O	LEU	E	112	151.855	129.567	8.326	1.00	53.46	ES5
ATOM	38546	N	ALA	E	113	151.853	127.758	7.024	1.00	73.17	ES5
ATOM	38547	CA	ALA	E	113	150.917	128.374	6.100	1.00	73.17	ES5
ATOM	38548	CB	ALA	E	113	150.590	127.413	4.970	1.00	140.13	ES5
ATOM	38549	C	ALA	E	113	149.662	128.714	6.890	1.00	73.17	ES5
ATOM	38550	O	ALA	E	113	148.784	129.438	6.412	1.00	73.17	ES5
ATOM	38551	N	GLY	E	114	149.601	128.198	8.115	1.00	66.95	ES5
ATOM	38552	CA	GLY	E	114	148.444	128.426	8.951	1.00	66.95	ES5
ATOM	38553	C	GLY	E	114	147.403	127.397	8.562	1.00	66.95	ES5
ATOM	38554	O	GLY	E	114	146.209	127.573	8.795	1.00	66.95	ES5
ATOM	38555	N	VAL	E	115	147.866	126.318	7.942	1.00	64.26	ES5
ATOM	38556	CA	VAL	E	115	146.976	125.247	7.525	1.00	64.26	ES5
ATOM	38557	CB	VAL	E	115	147.459	124.531	6.262	1.00	35.23	ES5
ATOM	38558	CG1	VAL	E	115	146.594	123.317	6.042	1.00	35.23	ES5
ATOM	38559	CG2	VAL	E	115	147.387	125.458	5.055	1.00	35.23	ES5
ATOM	38560	C	VAL	E	115	146.899	124.210	8.621	1.00	64.26	ES5
ATOM	38561	O	VAL	E	115	147.878	123.950	9.322	1.00	64.26	ES5
ATOM	38562	N	THR	E	116	145.741	123.584	8.743	1.00	78.19	ES5
ATOM	38563	CA	THR	E	116	145.579	122.613	9.789	1.00	78.19	ES5
ATOM	38564	CB	THR	E	116	144.713	123.213	10.891	1.00	68.05	ES5
ATOM	38565	OG1	THR	E	116	145.063	122.608	12.136	1.00	68.05	ES5

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ATOM	38566	CG2	THR	E	116	143.230	122.990	10.605	1.00	68.05	ES5
ATOM	38567	C	THR	E	116	145.027	121.248	9.376	1.00	78.19	ES5
ATOM	38568	O	THR	E	116	145.262	120.257	10.069	1.00	78.19	ES5
ATOM	38569	N	ASP	E	117	144.302	121.182	8.262	1.00	78.67	ES5
ATOM	38570	CA	ASP	E	117	143.745	119.906	7.809	1.00	78.67	ES5
ATOM	38571	CB	ASP	E	117	142.269	119.791	8.231	1.00	123.61	ES5
ATOM	38572	CG	ASP	E	117	142.092	119.574	9.742	1.00	123.61	ES5
ATOM	38573	OD1	ASP	E	117	142.344	118.451	10.226	1.00	123.61	ES5
ATOM	38574	OD2	ASP	E	117	141.700	120.525	10.454	1.00	123.61	ES5
ATOM	38575	C	ASP	E	117	143.860	119.710	6.299	1.00	78.67	ES5
ATOM	38576	O	ASP	E	117	143.076	120.291	5.543	1.00	78.67	ES5
ATOM	38577	N	ILE	E	118	144.845	118.912	5.867	1.00	77.50	ES5
ATOM	38578	CA	ILE	E	118	145.035	118.614	4.442	1.00	77.50	ES5
ATOM	38579	CB	ILE	E	118	146.070	119.487	3.744	1.00	73.61	ES5
ATOM	38580	CG2	ILE	E	118	145.903	119.347	2.241	1.00	73.61	ES5
ATOM	38581	CG1	ILE	E	118	145.880	120.951	4.052	1.00	73.61	ES5
ATOM	38582	CD1	ILE	E	118	146.859	121.819	3.240	1.00	73.61	ES5
ATOM	38583	C	ILE	E	118	145.547	117.211	4.158	1.00	77.50	ES5
ATOM	38584	O	ILE	E	118	146.230	116.602	4.988	1.00	77.50	ES5
ATOM	38585	N	LEU	E	119	145.222	116.736	2.953	1.00	74.05	ES5
ATOM	38586	CA	LEU	E	119	145.653	115.442	2.431	1.00	74.05	ES5
ATOM	38587	CB	LEU	E	119	144.483	114.700	1.797	1.00	66.30	ES5
ATOM	38588	CG	LEU	E	119	143.480	114.226	2.847	1.00	66.30	ES5
ATOM	38589	CD1	LEU	E	119	142.355	113.450	2.185	1.00	66.30	ES5
ATOM	38590	CD2	LEU	E	119	144.198	113.360	3.872	1.00	66.30	ES5
ATOM	38591	C	LEU	E	119	146.676	115.819	1.368	1.00	74.05	ES5
ATOM	38592	O	LEU	E	119	146.390	116.644	0.497	1.00	74.05	ES5
ATOM	38593	N	THR	E	120	147.860	115.215	1.439	1.00	71.32	ES5
ATOM	38594	CA	THR	E	120	148.950	115.536	0.523	1.00	71.32	ES5
ATOM	38595	CB	THR	E	120	150.027	116.305	1.278	1.00	64.99	ES5
ATOM	38596	OG1	THR	E	120	150.020	117.658	0.831	1.00	64.99	ES5
ATOM	38597	CG2	THR	E	120	151.420	115.677	1.077	1.00	64.99	ES5
ATOM	38598	C	THR	E	120	149.623	114.351	-0.124	1.00	71.32	ES5
ATOM	38599	O	THR	E	120	149.481	113.231	0.342	1.00	71.32	ES5
ATOM	38600	N	LYS	E	121	150.379	114.602	-1.190	1.00	75.84	ES5
ATOM	38601	CA	LYS	E	121	151.123	113.535	-1.850	1.00	75.84	ES5
ATOM	38602	CB	LYS	E	121	150.188	112.615	-2.636	1.00	63.78	ES5
ATOM	38603	CG	LYS	E	121	150.904	111.452	-3.317	1.00	63.78	ES5
ATOM	38604	CD	LYS	E	121	151.752	110.653	-2.337	1.00	63.78	ES5
ATOM	38605	CE	LYS	E	121	152.520	109.563	-3.067	1.00	63.78	ES5
ATOM	38606	NZ	LYS	E	121	153.368	108.705	-2.185	1.00	63.78	ES5
ATOM	38607	C	LYS	E	121	152.206	114.060	-2.778	1.00	75.84	ES5
ATOM	38608	O	LYS	E	121	151.931	114.875	-3.662	1.00	75.84	ES5
ATOM	38609	N	GLU	E	122	153.436	113.592	-2.562	1.00	74.83	ES5
ATOM	38610	CA	GLU	E	122	154.583	113.982	-3.383	1.00	74.83	ES5
ATOM	38611	CB	GLU	E	122	155.867	114.002	-2.559	1.00	100.20	ES5
ATOM	38612	CG	GLU	E	122	155.979	115.146	-1.590	1.00	100.20	ES5
ATOM	38613	CD	GLU	E	122	157.224	115.044	-0.733	1.00	100.20	ES5
ATOM	38614	OE1	GLU	E	122	158.337	114.976	-1.306	1.00	100.20	ES5
ATOM	38615	OE2	GLU	E	122	157.092	115.032	0.513	1.00	100.20	ES5
ATOM	38616	C	GLU	E	122	154.745	112.952	-4.479	1.00	74.83	ES5
ATOM	38617	O	GLU	E	122	154.911	111.768	-4.196	1.00	74.83	ES5
ATOM	38618	N	LEU	E	123	154.709	113.391	-5.727	1.00	60.54	ES5
ATOM	38619	CA	LEU	E	123	154.848	112.458	-6.828	1.00	60.54	ES5
ATOM	38620	CB	LEU	E	123	153.565	112.451	-7.632	1.00	53.09	ES5
ATOM	38621	CG	LEU	E	123	152.424	111.821	-6.846	1.00	53.09	ES5
ATOM	38622	CD1	LEU	E	123	151.114	112.041	-7.587	1.00	53.09	ES5
ATOM	38623	CD2	LEU	E	123	152.716	110.338	-6.628	1.00	53.09	ES5
ATOM	38624	C	LEU	E	123	156.009	112.835	-7.717	1.00	60.54	ES5
ATOM	38625	O	LEU	E	123	156.136	113.996	-8.091	1.00	60.54	ES5
ATOM	38626	N	GLY	E	124	156.856	111.871	-8.067	1.00	68.79	ES5
ATOM	38627	CA	GLY	E	124	157.997	112.188	-8.921	1.00	68.79	ES5
ATOM	38628	C	GLY	E	124	159.245	112.609	-8.148	1.00	68.79	ES5
ATOM	38629	O	GLY	E	124	159.427	112.203	-6.995	1.00	68.79	ES5
ATOM	38630	N	SER	E	125	160.106	113.416	-8.766	1.00	55.22	ES5
ATOM	38631	CA	SER	E	125	161.326	113.864	-8.095	1.00	55.22	ES5
ATOM	38632	CB	SER	E	125	161.937	115.071	-8.794	1.00	81.86	ES5
ATOM	38633	OG	SER	E	125	162.914	115.668	-7.958	1.00	81.86	ES5
ATOM	38634	C	SER	E	125	161.043	114.251	-6.657	1.00	55.22	ES5
ATOM	38635	O	SER	E	125	160.619	115.379	-6.374	1.00	55.22	ES5
ATOM	38636	N	ARG	E	126	161.298	113.326	-5.744	1.00	58.63	ES5
ATOM	38637	CA	ARG	E	126	161.038	113.597	-4.356	1.00	58.63	ES5
ATOM	38638	CB	ARG	E	126	160.997	112.281	-3.589	1.00	83.89	ES5
ATOM	38639	CG	ARG	E	126	160.031	112.303	-2.430	1.00	83.89	ES5
ATOM	38640	CD	ARG	E	126	159.331	110.969	-2.281	1.00	83.89	ES5
ATOM	38641	NE	ARG	E	126	158.302	110.772	-3.305	1.00	83.89	ES5
ATOM	38642	CZ	ARG	E	126	157.559	109.671	-3.410	1.00	83.89	ES5

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ATOM	38643	NH1	ARG	E	126	157.728	108.666	-2.557	1.00	83.89	ES5
ATOM	38644	NH2	ARG	E	126	156.644	109.574	-4.364	1.00	83.89	ES5
ATOM	38645	C	ARG	E	126	162.076	114.553	-3.773	1.00	58.63	ES5
ATOM	38646	O	ARG	E	126	162.207	114.684	-2.558	1.00	58.63	ES5
ATOM	38647	N	ASN	E	127	162.799	115.257	-4.630	1.00	58.90	ES5
ATOM	38648	CA	ASN	E	127	163.801	116.175	-4.111	1.00	58.90	ES5
ATOM	38649	CB	ASN	E	127	164.696	116.715	-5.219	1.00	79.68	ES5
ATOM	38650	CG	ASN	E	127	165.612	117.809	-4.719	1.00	79.68	ES5
ATOM	38651	OD1	ASN	E	127	165.171	118.928	-4.460	1.00	79.68	ES5
ATOM	38652	ND2	ASN	E	127	166.886	117.485	-4.551	1.00	79.68	ES5
ATOM	38653	C	ASN	E	127	163.216	117.356	-3.356	1.00	58.90	ES5
ATOM	38654	O	ASN	E	127	162.439	118.135	-3.909	1.00	58.90	ES5
ATOM	38655	N	PRO	E	128	163.627	117.528	-2.090	1.00	63.01	ES5
ATOM	38656	CD	PRO	E	128	164.792	116.846	-1.517	1.00	42.35	ES5
ATOM	38657	CA	PRO	E	128	163.189	118.596	-1.190	1.00	63.01	ES5
ATOM	38658	CB	PRO	E	128	164.152	118.473	-0.014	1.00	42.35	ES5
ATOM	38659	CG	PRO	E	128	165.367	117.932	-0.653	1.00	42.35	ES5
ATOM	38660	C	PRO	E	128	163.185	119.998	-1.784	1.00	63.01	ES5
ATOM	38661	O	PRO	E	128	162.125	120.609	-1.926	1.00	63.01	ES5
ATOM	38662	N	ILE	E	129	164.356	120.515	-2.131	1.00	64.88	ES5
ATOM	38663	CA	ILE	E	129	164.408	121.856	-2.682	1.00	64.88	ES5
ATOM	38664	CB	ILE	E	129	165.781	122.185	-3.260	1.00	70.56	ES5
ATOM	38665	CG2	ILE	E	129	165.824	123.646	-3.702	1.00	70.56	ES5
ATOM	38666	CG1	ILE	E	129	166.845	121.930	-2.191	1.00	70.56	ES5
ATOM	38667	CD1	ILE	E	129	168.212	122.468	-2.537	1.00	70.56	ES5
ATOM	38668	C	ILE	E	129	163.354	122.092	-3.749	1.00	64.88	ES5
ATOM	38669	O	ILE	E	129	162.792	123.179	-3.808	1.00	64.88	ES5
ATOM	38670	N	ASN	E	130	163.059	121.100	-4.585	1.00	61.64	ES5
ATOM	38671	CA	ASN	E	130	162.033	121.319	-5.605	1.00	61.64	ES5
ATOM	38672	CB	ASN	E	130	162.247	120.414	-6.819	1.00	64.65	ES5
ATOM	38673	CG	ASN	E	130	163.551	120.696	-7.530	1.00	64.65	ES5
ATOM	38674	OD1	ASN	E	130	163.975	121.846	-7.651	1.00	64.65	ES5
ATOM	38675	ND2	ASN	E	130	164.191	119.642	-8.016	1.00	64.65	ES5
ATOM	38676	C	ASN	E	130	160.620	121.131	-5.050	1.00	61.64	ES5
ATOM	38677	O	ASN	E	130	159.719	121.917	-5.356	1.00	61.64	ES5
ATOM	38678	N	ILE	E	131	160.414	120.093	-4.245	1.00	76.70	ES5
ATOM	38679	CA	ILE	E	131	159.099	119.885	-3.648	1.00	76.70	ES5
ATOM	38680	CB	ILE	E	131	159.127	118.765	-2.582	1.00	60.53	ES5
ATOM	38681	CG2	ILE	E	131	157.783	118.624	-1.933	1.00	60.53	ES5
ATOM	38682	CG1	ILE	E	131	159.460	117.434	-3.244	1.00	60.53	ES5
ATOM	38683	CD1	ILE	E	131	158.539	117.102	-4.390	1.00	60.53	ES5
ATOM	38684	C	ILE	E	131	158.743	121.217	-2.988	1.00	76.70	ES5
ATOM	38685	O	ILE	E	131	157.657	121.768	-3.210	1.00	76.70	ES5
ATOM	38686	N	ALA	E	132	159.674	121.740	-2.194	1.00	62.07	ES5
ATOM	38687	CA	ALA	E	132	159.479	123.025	-1.535	1.00	62.07	ES5
ATOM	38688	CB	ALA	E	132	160.794	123.552	-1.044	1.00	33.15	ES5
ATOM	38689	C	ALA	E	132	158.866	124.032	-2.509	1.00	62.07	ES5
ATOM	38690	O	ALA	E	132	157.732	124.486	-2.319	1.00	62.07	ES5
ATOM	38691	N	TYR	E	133	159.622	124.373	-3.552	1.00	52.62	ES5
ATOM	38692	CA	TYR	E	133	159.162	125.326	-4.559	1.00	52.62	ES5
ATOM	38693	CB	TYR	E	133	160.198	125.464	-5.672	1.00	111.00	ES5
ATOM	38694	CG	TYR	E	133	161.485	126.120	-5.238	1.00	111.00	ES5
ATOM	38695	CD1	TYR	E	133	162.633	126.000	-6.015	1.00	111.00	ES5
ATOM	38696	CE1	TYR	E	133	163.835	126.582	-5.629	1.00	111.00	ES5
ATOM	38697	CD2	TYR	E	133	161.564	126.853	-4.049	1.00	111.00	ES5
ATOM	38698	CE2	TYR	E	133	162.763	127.447	-3.647	1.00	111.00	ES5
ATOM	38699	CZ	TYR	E	133	163.900	127.303	-4.448	1.00	111.00	ES5
ATOM	38700	OH	TYR	E	133	165.114	127.857	-4.086	1.00	111.00	ES5
ATOM	38701	C	TYR	E	133	157.820	124.930	-5.160	1.00	52.62	ES5
ATOM	38702	O	TYR	E	133	156.993	125.792	-5.479	1.00	52.62	ES5
ATOM	38703	N	ALA	E	134	157.597	123.631	-5.319	1.00	58.41	ES5
ATOM	38704	CA	ALA	E	134	156.337	123.179	-5.884	1.00	58.41	ES5
ATOM	38705	CB	ALA	E	134	156.375	121.682	-6.119	1.00	153.60	ES5
ATOM	38706	C	ALA	E	134	155.192	123.541	-4.936	1.00	58.41	ES5
ATOM	38707	O	ALA	E	134	154.180	124.112	-5.356	1.00	58.41	ES5
ATOM	38708	N	THR	E	135	155.360	123.212	-3.658	1.00	76.80	ES5
ATOM	38709	CA	THR	E	135	154.342	123.510	-2.666	1.00	76.80	ES5
ATOM	38710	CB	THR	E	135	154.810	123.126	-1.262	1.00	64.97	ES5
ATOM	38711	OG1	THR	E	135	155.134	121.733	-1.239	1.00	64.97	ES5
ATOM	38712	CG2	THR	E	135	153.718	123.392	-0.246	1.00	64.97	ES5
ATOM	38713	C	THR	E	135	154.015	124.999	-2.696	1.00	76.80	ES5
ATOM	38714	O	THR	E	135	152.850	125.377	-2.812	1.00	76.80	ES5
ATOM	38715	N	MET	E	136	155.037	125.847	-2.590	1.00	76.77	ES5
ATOM	38716	CA	MET	E	136	154.815	127.289	-2.634	1.00	76.77	ES5
ATOM	38717	CB	MET	E	136	156.140	128.037	-2.724	1.00	83.11	ES5
ATOM	38718	CG	MET	E	136	156.911	127.993	-1.440	1.00	83.11	ES5
ATOM	38719	SD	MET	E	136	155.937	128.724	-0.113	1.00	83.11	ES5

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ATOM	38720	CE	MET	E	136	156.779	130.329	0.092	1.00	83.11	ES5
ATOM	38721	C	MET	E	136	153.968	127.623	-3.846	1.00	76.77	ES5
ATOM	38722	O	MET	E	136	152.911	128.246	-3.721	1.00	76.77	ES5
ATOM	38723	N	GLU	E	137	154.432	127.194	-5.018	1.00	57.28	ES5
ATOM	38724	CA	GLU	E	137	153.712	127.445	-6.254	1.00	57.28	ES5
ATOM	38725	CB	GLU	E	137	154.357	126.699	-7.414	1.00	96.90	ES5
ATOM	38726	CG	GLU	E	137	154.944	127.649	-8.434	1.00	96.90	ES5
ATOM	38727	CD	GLU	E	137	154.011	128.819	-8.719	1.00	96.90	ES5
ATOM	38728	OE1	GLU	E	137	152.872	128.564	-9.173	1.00	96.90	ES5
ATOM	38729	OE2	GLU	E	137	154.416	129.984	-8.483	1.00	96.90	ES5
ATOM	38730	C	GLU	E	137	152.261	127.030	-6.128	1.00	57.28	ES5
ATOM	38731	O	GLU	E	137	151.359	127.780	-6.494	1.00	57.28	ES5
ATOM	38732	N	ALA	E	138	152.036	125.833	-5.603	1.00	57.59	ES5
ATOM	38733	CA	ALA	E	138	150.681	125.340	-5.421	1.00	57.59	ES5
ATOM	38734	CB	ALA	E	138	150.714	123.980	-4.758	1.00	53.24	ES5
ATOM	38735	C	ALA	E	138	149.873	126.327	-4.574	1.00	57.59	ES5
ATOM	38736	O	ALA	E	138	148.783	126.755	-4.972	1.00	57.59	ES5
ATOM	38737	N	LEU	E	139	150.401	126.686	-3.409	1.00	58.96	ES5
ATOM	38738	CA	LEU	E	139	149.720	127.634	-2.554	1.00	58.96	ES5
ATOM	38739	CB	LEU	E	139	150.592	127.969	-1.358	1.00	49.91	ES5
ATOM	38740	CG	LEU	E	139	150.773	126.788	-0.405	1.00	49.91	ES5
ATOM	38741	CD1	LEU	E	139	151.397	127.284	0.896	1.00	49.91	ES5
ATOM	38742	CD2	LEU	E	139	149.423	126.134	-0.109	1.00	49.91	ES5
ATOM	38743	C	LEU	E	139	149.394	128.901	-3.341	1.00	58.96	ES5
ATOM	38744	O	LEU	E	139	148.238	129.336	-3.388	1.00	58.96	ES5
ATOM	38745	N	ARG	E	140	150.409	129.484	-3.971	1.00	63.74	ES5
ATOM	38746	CA	ARG	E	140	150.210	130.689	-4.767	1.00	63.74	ES5
ATOM	38747	CB	ARG	E	140	151.449	131.018	-5.589	1.00	77.53	ES5
ATOM	38748	CG	ARG	E	140	152.501	131.820	-4.885	1.00	77.53	ES5
ATOM	38749	CD	ARG	E	140	153.245	132.728	-5.867	1.00	77.53	ES5
ATOM	38750	NE	ARG	E	140	154.579	132.998	-5.367	1.00	77.53	ES5
ATOM	38751	CZ	ARG	E	140	155.514	132.062	-5.289	1.00	77.53	ES5
ATOM	38752	NH1	ARG	E	140	155.237	130.826	-5.699	1.00	77.53	ES5
ATOM	38753	NH2	ARG	E	140	156.705	132.339	-4.762	1.00	77.53	ES5
ATOM	38754	C	ARG	E	140	149.038	130.635	-5.748	1.00	63.74	ES5
ATOM	38755	O	ARG	E	140	148.470	131.675	-6.082	1.00	63.74	ES5
ATOM	38756	N	GLN	E	141	148.672	129.450	-6.228	1.00	57.32	ES5
ATOM	38757	CA	GLN	E	141	147.590	129.385	-7.201	1.00	57.32	ES5
ATOM	38758	CB	GLN	E	141	147.944	128.394	-8.290	1.00	82.85	ES5
ATOM	38759	CG	GLN	E	141	149.364	128.535	-8.743	1.00	82.85	ES5
ATOM	38760	CD	GLN	E	141	149.633	127.745	-9.983	1.00	82.85	ES5
ATOM	38761	OE1	GLN	E	141	149.032	126.695	-10.201	1.00	82.85	ES5
ATOM	38762	NE2	GLN	E	141	150.547	128.236	-10.810	1.00	82.85	ES5
ATOM	38763	C	GLN	E	141	146.215	129.064	-6.645	1.00	57.32	ES5
ATOM	38764	O	GLN	E	141	145.241	128.949	-7.406	1.00	57.32	ES5
ATOM	38765	N	LEU	E	142	146.128	128.910	-5.328	1.00	67.48	ES5
ATOM	38766	CA	LEU	E	142	144.846	128.640	-4.690	1.00	67.48	ES5
ATOM	38767	CB	LEU	E	142	145.026	128.510	-3.184	1.00	46.60	ES5
ATOM	38768	CG	LEU	E	142	145.825	127.286	-2.778	1.00	46.60	ES5
ATOM	38769	CD1	LEU	E	142	146.333	127.437	-1.368	1.00	46.60	ES5
ATOM	38770	CD2	LEU	E	142	144.935	126.072	-2.930	1.00	46.60	ES5
ATOM	38771	C	LEU	E	142	143.978	129.848	-4.981	1.00	67.48	ES5
ATOM	38772	O	LEU	E	142	144.471	130.975	-4.992	1.00	67.48	ES5
ATOM	38773	N	ARG	E	143	142.695	129.620	-5.220	1.00	57.72	ES5
ATOM	38774	CA	ARG	E	143	141.779	130.718	-5.499	1.00	57.72	ES5
ATOM	38775	CB	ARG	E	143	141.567	130.849	-7.007	1.00	69.80	ES5
ATOM	38776	CG	ARG	E	143	142.815	131.247	-7.740	1.00	69.80	ES5
ATOM	38777	CD	ARG	E	143	143.277	132.564	-7.194	1.00	69.80	ES5
ATOM	38778	NE	ARG	E	143	144.724	132.693	-7.243	1.00	69.80	ES5
ATOM	38779	CZ	ARG	E	143	145.425	132.730	-8.366	1.00	69.80	ES5
ATOM	38780	NH1	ARG	E	143	144.798	132.641	-9.535	1.00	69.80	ES5
ATOM	38781	NH2	ARG	E	143	146.745	132.869	-8.315	1.00	69.80	ES5
ATOM	38782	C	ARG	E	143	140.447	130.467	-4.816	1.00	57.72	ES5
ATOM	38783	O	ARG	E	143	140.075	129.320	-4.609	1.00	57.72	ES5
ATOM	38784	N	THR	E	144	139.719	131.524	-4.477	1.00	75.08	ES5
ATOM	38785	CA	THR	E	144	138.427	131.350	-3.823	1.00	75.08	ES5
ATOM	38786	CB	THR	E	144	138.364	132.163	-2.548	1.00	80.57	ES5
ATOM	38787	OG1	THR	E	144	139.438	131.744	-1.706	1.00	80.57	ES5
ATOM	38788	CG2	THR	E	144	137.033	131.950	-1.828	1.00	80.57	ES5
ATOM	38789	C	THR	E	144	137.262	131.733	-4.714	1.00	75.08	ES5
ATOM	38790	O	THR	E	144	137.424	132.496	-5.669	1.00	75.08	ES5
ATOM	38791	N	LYS	E	145	136.084	131.199	-4.396	1.00	94.81	ES5
ATOM	38792	CA	LYS	E	145	134.898	131.490	-5.179	1.00	94.81	ES5
ATOM	38793	CB	LYS	E	145	133.638	130.952	-4.499	1.00	117.67	ES5
ATOM	38794	CG	LYS	E	145	132.499	130.766	-5.485	1.00	117.67	ES5
ATOM	38795	CD	LYS	E	145	131.398	129.879	-4.945	1.00	117.67	ES5
ATOM	38796	CE	LYS	E	145	130.369	129.576	-6.033	1.00	117.67	ES5

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ATOM	38797	NZ	LYS	E	145	129.219	128.775	-5.515	1.00117.67	ES5
ATOM	38798	C	LYS	E	145	134.828	132.994	-5.339	1.00 94.81	ES5
ATOM	38799	O	LYS	E	145	134.304	133.498	-6.327	1.00 94.81	ES5
ATOM	38800	N	ALA	E	146	135.376	133.708	-4.362	1.00 58.31	ES5
ATOM	38801	CA	ALA	E	146	135.422	135.161	-4.426	1.00 58.31	ES5
ATOM	38802	CB	ALA	E	146	136.134	135.725	-3.196	1.00 55.62	ES5
ATOM	38803	C	ALA	E	146	136.214	135.497	-5.685	1.00 58.31	ES5
ATOM	38804	O	ALA	E	146	135.644	135.911	-6.696	1.00 58.31	ES5
ATOM	38805	N	ASP	E	147	137.531	135.289	-5.609	1.00 58.77	ES5
ATOM	38806	CA	ASP	E	147	138.458	135.558	-6.710	1.00 58.77	ES5
ATOM	38807	CB	ASP	E	147	139.780	134.864	-6.453	1.00 93.87	ES5
ATOM	38808	CG	ASP	E	147	140.142	134.858	-5.003	1.00 93.87	ES5
ATOM	38809	OD1	ASP	E	147	140.939	135.724	-4.587	1.00 93.87	ES5
ATOM	38810	OD2	ASP	E	147	139.612	133.994	-4.272	1.00 93.87	ES5
ATOM	38811	C	ASP	E	147	137.907	135.038	-8.016	1.00 58.77	ES5
ATOM	38812	O	ASP	E	147	137.969	135.708	-9.043	1.00 58.77	ES5
ATOM	38813	N	VAL	E	148	137.384	133.824	-7.968	1.00 52.97	ES5
ATOM	38814	CA	VAL	E	148	136.843	133.196	-9.150	1.00 52.97	ES5
ATOM	38815	CB	VAL	E	148	136.435	131.764	-8.855	1.00 69.12	ES5
ATOM	38816	CG1	VAL	E	148	135.757	131.151	-10.068	1.00 69.12	ES5
ATOM	38817	CG2	VAL	E	148	137.676	130.972	-8.463	1.00 69.12	ES5
ATOM	38818	C	VAL	E	148	135.659	133.958	-9.683	1.00 52.97	ES5
ATOM	38819	O	VAL	E	148	135.627	134.291	-10.873	1.00 52.97	ES5
ATOM	38820	N	GLU	E	149	134.684	134.224	-8.812	1.00 74.87	ES5
ATOM	38821	CA	GLU	E	149	133.483	134.966	-9.198	1.00 74.87	ES5
ATOM	38822	CB	GLU	E	149	132.545	135.144	-8.007	1.00197.86	ES5
ATOM	38823	CG	GLU	E	149	131.335	136.004	-8.322	1.00197.86	ES5
ATOM	38824	CD	GLU	E	149	130.720	136.624	-7.084	1.00197.86	ES5
ATOM	38825	OE1	GLU	E	149	131.438	137.351	-6.364	1.00197.86	ES5
ATOM	38826	OE2	GLU	E	149	129.520	136.390	-6.832	1.00197.86	ES5
ATOM	38827	C	GLU	E	149	133.944	136.331	-9.679	1.00 74.87	ES5
ATOM	38828	O	GLU	E	149	133.443	136.866	-10.672	1.00 74.87	ES5
ATOM	38829	N	ARG	E	150	134.910	136.882	-8.950	1.00 80.85	ES5
ATOM	38830	CA	ARG	E	150	135.495	138.171	-9.265	1.00 80.85	ES5
ATOM	38831	CB	ARG	E	150	136.676	138.434	-8.333	1.00157.64	ES5
ATOM	38832	CG	ARG	E	150	136.539	139.669	-7.472	1.00157.64	ES5
ATOM	38833	CD	ARG	E	150	136.808	140.924	-8.275	1.00157.64	ES5
ATOM	38834	NE	ARG	E	150	136.838	142.122	-7.438	1.00157.64	ES5
ATOM	38835	CZ	ARG	E	150	137.645	142.294	-6.392	1.00157.64	ES5
ATOM	38836	NH1	ARG	E	150	138.500	141.340	-6.037	1.00157.64	ES5
ATOM	38837	NH2	ARG	E	150	137.604	143.429	-5.704	1.00157.64	ES5
ATOM	38838	C	ARG	E	150	135.967	138.141	-10.717	1.00 80.85	ES5
ATOM	38839	O	ARG	E	150	135.503	138.924	-11.539	1.00 80.85	ES5
ATOM	38840	N	LEU	E	151	136.871	137.218	-11.038	1.00 82.00	ES5
ATOM	38841	CA	LEU	E	151	137.409	137.104	-12.392	1.00 82.00	ES5
ATOM	38842	CB	LEU	E	151	138.342	135.905	-12.507	1.00 69.17	ES5
ATOM	38843	CG	LEU	E	151	139.733	136.068	-11.914	1.00 69.17	ES5
ATOM	38844	CD1	LEU	E	151	140.603	134.876	-12.317	1.00 69.17	ES5
ATOM	38845	CD2	LEU	E	151	140.332	137.370	-12.429	1.00 69.17	ES5
ATOM	38846	C	LEU	E	151	136.385	136.985	-13.495	1.00 82.00	ES5
ATOM	38847	O	LEU	E	151	136.511	137.631	-14.529	1.00 82.00	ES5
ATOM	38848	N	ARG	E	152	135.369	136.162	-13.279	1.00 62.44	ES5
ATOM	38849	CA	ARG	E	152	134.371	135.943	-14.306	1.00 62.44	ES5
ATOM	38850	CB	ARG	E	152	133.838	134.540	-14.189	1.00 81.28	ES5
ATOM	38851	CG	ARG	E	152	134.846	133.553	-13.759	1.00 81.28	ES5
ATOM	38852	CD	ARG	E	152	134.157	132.237	-13.711	1.00 81.28	ES5
ATOM	38853	NE	ARG	E	152	135.001	131.186	-13.177	1.00 81.28	ES5
ATOM	38854	CZ	ARG	E	152	134.544	129.980	-12.862	1.00 81.28	ES5
ATOM	38855	NH1	ARG	E	152	133.251	129.694	-13.033	1.00 81.28	ES5
ATOM	38856	NH2	ARG	E	152	135.381	129.067	-12.386	1.00 81.28	ES5
ATOM	38857	C	ARG	E	152	133.178	136.881	-14.383	1.00 62.44	ES5
ATOM	38858	O	ARG	E	152	132.067	136.407	-14.616	1.00 62.44	ES5
ATOM	38859	N	LYS	E	153	133.359	138.187	-14.202	1.00 86.97	ES5
ATOM	38860	CA	LYS	E	153	132.204	139.076	-14.312	1.00 86.97	ES5
ATOM	38861	CB	LYS	E	153	132.161	140.080	-13.156	1.00121.56	ES5
ATOM	38862	CG	LYS	E	153	131.572	139.495	-11.877	1.00121.56	ES5
ATOM	38863	CD	LYS	E	153	130.831	140.552	-11.051	1.00121.56	ES5
ATOM	38864	CE	LYS	E	153	130.255	139.971	-9.751	1.00121.56	ES5
ATOM	38865	NZ	LYS	E	153	129.376	140.925	-9.004	1.00121.56	ES5
ATOM	38866	C	LYS	E	153	132.135	139.802	-15.662	1.00 86.97	ES5
ATOM	38867	O	LYS	E	153	131.601	139.259	-16.631	1.00 86.97	ES5
ATOM	38868	N	GLY	E	154	132.658	141.023	-15.726	1.00192.43	ES5
ATOM	38869	CA	GLY	E	154	132.638	141.775	-16.974	1.00192.43	ES5
ATOM	38870	C	GLY	E	154	131.293	141.855	-17.685	1.00192.43	ES5
ATOM	38871	O	GLY	E	154	130.292	141.332	-17.152	1.00192.43	ES5
ATOM	38872	OXT	GLY	E	154	131.231	142.447	-18.785	1.00148.03	ES5
TER	38872		GLY	E	154					ES5

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ATOM	38873	CB	MET	F	1	157.136	113.872	-83.824	1.00167.48	FS6
ATOM	38874	CG	MET	F	1	156.741	112.838	-84.852	1.00167.48	FS6
ATOM	38875	SD	MET	F	1	157.136	113.399	-86.512	1.00167.48	FS6
ATOM	38876	CE	MET	F	1	155.641	114.292	-86.948	1.00167.48	FS6
ATOM	38877	C	MET	F	1	157.430	114.530	-81.446	1.00117.03	FS6
ATOM	38878	O	MET	F	1	156.681	115.130	-80.674	1.00117.03	FS6
ATOM	38879	N	MET	F	1	155.452	113.169	-82.153	1.00117.03	FS6
ATOM	38880	CA	MET	F	1	156.898	113.444	-82.376	1.00117.03	FS6
ATOM	38881	N	ARG	F	2	158.734	114.775	-81.531	1.00 88.80	FS6
ATOM	38882	CA	ARG	F	2	159.385	115.787	-80.714	1.00 88.80	FS6
ATOM	38883	CB	ARG	F	2	160.023	115.152	-79.470	1.00105.20	FS6
ATOM	38884	CG	ARG	F	2	159.041	114.535	-78.482	1.00105.20	FS6
ATOM	38885	CD	ARG	F	2	159.776	113.926	-77.293	1.00105.20	FS6
ATOM	38886	NE	ARG	F	2	158.906	113.045	-76.517	1.00105.20	FS6
ATOM	38887	CZ	ARG	F	2	159.331	112.019	-75.776	1.00105.20	FS6
ATOM	38888	NH1	ARG	F	2	160.626	111.736	-75.700	1.00105.20	FS6
ATOM	38889	NH2	ARG	F	2	158.455	111.258	-75.123	1.00105.20	FS6
ATOM	38890	C	ARG	F	2	160.456	116.505	-81.532	1.00 88.80	FS6
ATOM	38891	O	ARG	F	2	160.950	115.978	-82.533	1.00 88.80	FS6
ATOM	38892	N	ARG	F	3	160.812	117.702	-81.075	1.00 96.92	FS6
ATOM	38893	CA	ARG	F	3	161.803	118.557	-81.721	1.00 96.92	FS6
ATOM	38894	CB	ARG	F	3	161.376	120.008	-81.547	1.00144.20	FS6
ATOM	38895	CG	ARG	F	3	161.652	120.907	-82.716	1.00144.20	FS6
ATOM	38896	CD	ARG	F	3	161.220	122.305	-82.359	1.00144.20	FS6
ATOM	38897	NE	ARG	F	3	161.051	123.149	-83.532	1.00144.20	FS6
ATOM	38898	CZ	ARG	F	3	160.735	124.437	-83.471	1.00144.20	FS6
ATOM	38899	NH1	ARG	F	3	160.558	125.021	-82.291	1.00144.20	FS6
ATOM	38900	NH2	ARG	F	3	160.593	125.141	-84.587	1.00144.20	FS6
ATOM	38901	C	ARG	F	3	163.201	118.367	-81.120	1.00 96.92	FS6
ATOM	38902	O	ARG	F	3	163.394	118.537	-79.913	1.00 96.92	FS6
ATOM	38903	N	TYR	F	4	164.175	118.029	-81.961	1.00 97.56	FS6
ATOM	38904	CA	TYR	F	4	165.551	117.823	-81.504	1.00 97.56	FS6
ATOM	38905	CB	TYR	F	4	165.968	116.358	-81.665	1.00101.98	FS6
ATOM	38906	CG	TYR	F	4	165.057	115.367	-80.998	1.00101.98	FS6
ATOM	38907	CD1	TYR	F	4	165.132	115.131	-79.631	1.00101.98	FS6
ATOM	38908	CE1	TYR	F	4	164.275	114.232	-79.014	1.00101.98	FS6
ATOM	38909	CD2	TYR	F	4	164.099	114.680	-81.736	1.00101.98	FS6
ATOM	38910	CE2	TYR	F	4	163.237	113.785	-81.135	1.00101.98	FS6
ATOM	38911	CZ	TYR	F	4	163.328	113.562	-79.774	1.00101.98	FS6
ATOM	38912	OH	TYR	F	4	162.469	112.669	-79.180	1.00101.98	FS6
ATOM	38913	C	TYR	F	4	166.534	118.667	-82.301	1.00 97.56	FS6
ATOM	38914	O	TYR	F	4	166.167	119.339	-83.263	1.00 97.56	FS6
ATOM	38915	N	GLU	F	5	167.792	118.606	-81.888	1.00 90.95	FS6
ATOM	38916	CA	GLU	F	5	168.872	119.312	-82.550	1.00 90.95	FS6
ATOM	38917	CB	GLU	F	5	169.350	120.486	-81.707	1.00 87.47	FS6
ATOM	38918	CG	GLU	F	5	168.465	121.700	-81.843	1.00 87.47	FS6
ATOM	38919	CD	GLU	F	5	169.001	122.905	-81.095	1.00 87.47	FS6
ATOM	38920	OE1	GLU	F	5	170.226	123.164	-81.173	1.00 87.47	FS6
ATOM	38921	OE2	GLU	F	5	168.190	123.599	-80.441	1.00 87.47	FS6
ATOM	38922	C	GLU	F	5	169.994	118.314	-82.719	1.00 90.95	FS6
ATOM	38923	O	GLU	F	5	170.510	117.789	-81.736	1.00 90.95	FS6
ATOM	38924	N	VAL	F	6	170.360	118.035	-83.966	1.00 72.39	FS6
ATOM	38925	CA	VAL	F	6	171.432	117.090	-84.238	1.00 72.39	FS6
ATOM	38926	CB	VAL	F	6	171.071	116.145	-85.377	1.00 56.37	FS6
ATOM	38927	CG1	VAL	F	6	172.214	115.179	-85.613	1.00 56.37	FS6
ATOM	38928	CG2	VAL	F	6	169.815	115.391	-85.041	1.00 56.37	FS6
ATOM	38929	C	VAL	F	6	172.728	117.787	-84.612	1.00 72.39	FS6
ATOM	38930	O	VAL	F	6	172.810	118.439	-85.641	1.00 72.39	FS6
ATOM	38931	N	ASN	F	7	173.741	117.644	-83.768	1.00 78.71	FS6
ATOM	38932	CA	ASN	F	7	175.037	118.247	-84.022	1.00 78.71	FS6
ATOM	38933	CB	ASN	F	7	175.662	118.719	-82.722	1.00 83.82	FS6
ATOM	38934	CG	ASN	F	7	174.959	119.910	-82.157	1.00 83.82	FS6
ATOM	38935	OD1	ASN	F	7	175.262	121.046	-82.521	1.00 83.82	FS6
ATOM	38936	ND2	ASN	F	7	173.996	119.668	-81.273	1.00 83.82	FS6
ATOM	38937	C	ASN	F	7	175.914	117.186	-84.626	1.00 78.71	FS6
ATOM	38938	O	ASN	F	7	175.989	116.070	-84.106	1.00 78.71	FS6
ATOM	38939	N	ILE	F	8	176.574	117.521	-85.727	1.00 93.40	FS6
ATOM	38940	CA	ILE	F	8	177.454	116.563	-86.368	1.00 93.40	FS6
ATOM	38941	CB	ILE	F	8	176.767	115.909	-87.581	1.00 77.90	FS6
ATOM	38942	CG2	ILE	F	8	177.728	114.946	-88.264	1.00 77.90	FS6
ATOM	38943	CG1	ILE	F	8	175.506	115.172	-87.103	1.00 77.90	FS6
ATOM	38944	CD1	ILE	F	8	174.847	114.268	-88.134	1.00 77.90	FS6
ATOM	38945	C	ILE	F	8	178.764	117.206	-86.789	1.00 93.40	FS6
ATOM	38946	O	ILE	F	8	178.771	118.229	-87.470	1.00 93.40	FS6
ATOM	38947	N	VAL	F	9	179.871	116.608	-86.356	1.00101.90	FS6
ATOM	38948	CA	VAL	F	9	181.197	117.113	-86.690	1.00101.90	FS6
ATOM	38949	CB	VAL	F	9	181.989	117.493	-85.452	1.00 63.57	FS6

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ATOM	38950	CG1	VAL	F	9	183.254	118.196	-85.879	1.00	63.57	FS6
ATOM	38951	CG2	VAL	F	9	181.157	118.370	-84.543	1.00	63.57	FS6
ATOM	38952	C	VAL	F	9	182.009	116.065	-87.434	1.00101.90		FS6
ATOM	38953	O	VAL	F	9	182.191	114.945	-86.948	1.00101.90		FS6
ATOM	38954	N	LEU	F	10	182.516	116.435	-88.604	1.00	99.45	FS6
ATOM	38955	CA	LEU	F	10	183.291	115.496	-89.397	1.00	99.45	FS6
ATOM	38956	CB	LEU	F	10	182.451	115.013	-90.585	1.00	79.72	FS6
ATOM	38957	CG	LEU	F	10	181.394	116.006	-91.066	1.00	79.72	FS6
ATOM	38958	CD1	LEU	F	10	182.032	117.118	-91.871	1.00	79.72	FS6
ATOM	38959	CD2	LEU	F	10	180.374	115.265	-91.896	1.00	79.72	FS6
ATOM	38960	C	LEU	F	10	184.651	116.003	-89.867	1.00	99.45	FS6
ATOM	38961	O	LEU	F	10	184.997	117.174	-89.691	1.00	99.45	FS6
ATOM	38962	N	ASN	F	11	185.413	115.083	-90.453	1.00115.43		FS6
ATOM	38963	CA	ASN	F	11	186.752	115.336	-90.966	1.00115.43		FS6
ATOM	38964	CB	ASN	F	11	187.154	114.205	-91.905	1.00114.90		FS6
ATOM	38965	CG	ASN	F	11	188.572	113.759	-91.688	1.00114.90		FS6
ATOM	38966	OD1	ASN	F	11	189.484	114.580	-91.594	1.00114.90		FS6
ATOM	38967	ND2	ASN	F	11	188.773	112.447	-91.607	1.00114.90		FS6
ATOM	38968	C	ASN	F	11	186.877	116.657	-91.706	1.00115.43		FS6
ATOM	38969	O	ASN	F	11	186.256	116.857	-92.746	1.00115.43		FS6
ATOM	38970	N	PRO	F	12	187.706	117.572	-91.192	1.00110.12		FS6
ATOM	38971	CD	PRO	F	12	188.573	117.431	-90.011	1.00102.10		FS6
ATOM	38972	CA	PRO	F	12	187.897	118.878	-91.827	1.00110.12		FS6
ATOM	38973	CB	PRO	F	12	188.647	119.663	-90.760	1.00102.10		FS6
ATOM	38974	CG	PRO	F	12	189.520	118.612	-90.161	1.00102.10		FS6
ATOM	38975	C	PRO	F	12	188.683	118.781	-93.135	1.00110.12		FS6
ATOM	38976	O	PRO	F	12	188.899	119.786	-93.819	1.00110.12		FS6
ATOM	38977	N	ASN	F	13	189.106	117.567	-93.477	1.00139.73		FS6
ATOM	38978	CA	ASN	F	13	189.873	117.339	-94.697	1.00139.73		FS6
ATOM	38979	CB	ASN	F	13	191.121	116.509	-94.396	1.00133.54		FS6
ATOM	38980	CG	ASN	F	13	191.961	117.104	-93.292	1.00133.54		FS6
ATOM	38981	OD1	ASN	F	13	192.281	118.293	-93.316	1.00133.54		FS6
ATOM	38982	ND2	ASN	F	13	192.333	116.277	-92.316	1.00133.54		FS6
ATOM	38983	C	ASN	F	13	189.056	116.623	-95.760	1.00139.73		FS6
ATOM	38984	O	ASN	F	13	189.462	115.578	-96.261	1.00139.73		FS6
ATOM	38985	N	LEU	F	14	187.905	117.181	-96.106	1.00142.74		FS6
ATOM	38986	CA	LEU	F	14	187.067	116.567	-97.120	1.00142.74		FS6
ATOM	38987	CB	LEU	F	14	185.669	116.288	-96.560	1.00100.60		FS6
ATOM	38988	CG	LEU	F	14	185.543	115.364	-95.345	1.00100.60		FS6
ATOM	38989	CD1	LEU	F	14	184.072	115.084	-95.085	1.00100.60		FS6
ATOM	38990	CD2	LEU	F	14	186.282	114.061	-95.587	1.00100.60		FS6
ATOM	38991	C	LEU	F	14	186.962	117.480	-98.332	1.00142.74		FS6
ATOM	38992	O	LEU	F	14	186.560	118.638	-98.209	1.00142.74		FS6
ATOM	38993	N	ASP	F	15	187.338	116.969	-99.501	1.00	98.90	FS6
ATOM	38994	CA	ASP	F	15	187.248	117.769	-100.713	1.00	98.90	FS6
ATOM	38995	CB	ASP	F	15	188.055	117.135	-101.852	1.00191.42		FS6
ATOM	38996	CG	ASP	F	15	187.563	115.749	-102.223	1.00191.42		FS6
ATOM	38997	OD1	ASP	F	15	186.370	115.608	-102.565	1.00191.42		FS6
ATOM	38998	OD2	ASP	F	15	188.373	114.798	-102.179	1.00191.42		FS6
ATOM	38999	C	ASP	F	15	185.779	117.855	-101.096	1.00	98.90	FS6
ATOM	39000	O	ASP	F	15	184.989	116.979	-100.743	1.00	98.90	FS6
ATOM	39001	N	GLN	F	16	185.421	118.916	-101.809	1.00113.79		FS6
ATOM	39002	CA	GLN	F	16	184.048	119.143	-102.246	1.00113.79		FS6
ATOM	39003	CB	GLN	F	16	184.057	119.989	-103.520	1.00163.03		FS6
ATOM	39004	CG	GLN	F	16	182.682	120.217	-104.121	1.00163.03		FS6
ATOM	39005	CD	GLN	F	16	181.668	120.656	-103.086	1.00163.03		FS6
ATOM	39006	OE1	GLN	F	16	181.903	121.597	-102.327	1.00163.03		FS6
ATOM	39007	NE2	GLN	F	16	180.530	119.973	-103.049	1.00163.03		FS6
ATOM	39008	C	GLN	F	16	183.189	117.887	-102.475	1.00113.79		FS6
ATOM	39009	O	GLN	F	16	181.990	117.893	-102.186	1.00113.79		FS6
ATOM	39010	N	SER	F	17	183.792	116.819	-102.993	1.00118.64		FS6
ATOM	39011	CA	SER	F	17	183.057	115.582	-103.268	1.00118.64		FS6
ATOM	39012	CB	SER	F	17	183.773	114.781	-104.361	1.00152.77		FS6
ATOM	39013	OG	SER	F	17	183.823	115.506	-105.579	1.00152.77		FS6
ATOM	39014	C	SER	F	17	182.846	114.694	-102.044	1.00118.64		FS6
ATOM	39015	O	SER	F	17	181.727	114.253	-101.774	1.00118.64		FS6
ATOM	39016	N	GLN	F	18	183.927	114.425	-101.317	1.00124.43		FS6
ATOM	39017	CA	GLN	F	18	183.868	113.595	-100.119	1.00124.43		FS6
ATOM	39018	CB	GLN	F	18	185.243	113.516	-99.464	1.00135.17		FS6
ATOM	39019	CG	GLN	F	18	186.339	112.969	-100.351	1.00135.17		FS6
ATOM	39020	CD	GLN	F	18	187.724	113.283	-99.807	1.00135.17		FS6
ATOM	39021	OE1	GLN	F	18	188.736	112.827	-100.343	1.00135.17		FS6
ATOM	39022	NE2	GLN	F	18	187.773	114.075	-98.742	1.00135.17		FS6
ATOM	39023	C	GLN	F	18	182.890	114.206	-99.127	1.00124.43		FS6
ATOM	39024	O	GLN	F	18	181.979	113.534	-98.644	1.00124.43		FS6
ATOM	39025	N	LEU	F	19	183.094	115.486	-98.829	1.00146.99		FS6
ATOM	39026	CA	LEU	F	19	182.245	116.214	-97.894	1.00146.99		FS6

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ATOM	39027	CB	LEU	F	19	182.691	117.677	-97.801	1.00112.73	FS6
ATOM	39028	CG	LEU	F	19	181.834	118.613	-96.937	1.00112.73	FS6
ATOM	39029	CD1	LEU	F	19	182.650	119.837	-96.572	1.00112.73	FS6
ATOM	39030	CD2	LEU	F	19	180.552	119.021	-97.671	1.00112.73	FS6
ATOM	39031	C	LEU	F	19	180.780	116.156	-98.296	1.00146.99	FS6
ATOM	39032	O	LEU	F	19	179.940	115.670	-97.538	1.00146.99	FS6
ATOM	39033	N	ALA	F	20	180.475	116.667	-99.484	1.00124.95	FS6
ATOM	39034	CA	ALA	F	20	179.107	116.673	-99.983	1.00124.95	FS6
ATOM	39035	CB	ALA	F	20	179.064	117.303	-101.364	1.00178.13	FS6
ATOM	39036	C	ALA	F	20	178.513	115.260	-100.022	1.00124.95	FS6
ATOM	39037	O	ALA	F	20	177.303	115.094	-100.207	1.00124.95	FS6
ATOM	39038	N	LEU	F	21	179.361	114.247	-99.850	1.00126.99	FS6
ATOM	39039	CA	LEU	F	21	178.898	112.862	-99.843	1.00126.99	FS6
ATOM	39040	CB	LEU	F	21	180.026	111.893	-100.189	1.00 91.70	FS6
ATOM	39041	CG	LEU	F	21	179.633	110.442	-99.857	1.00 91.70	FS6
ATOM	39042	CD1	LEU	F	21	178.455	110.015	-100.735	1.00 91.70	FS6
ATOM	39043	CD2	LEU	F	21	180.819	109.512	-100.046	1.00 91.70	FS6
ATOM	39044	C	LEU	F	21	178.345	112.466	-98.478	1.00126.99	FS6
ATOM	39045	O	LEU	F	21	177.239	111.934	-98.379	1.00126.99	FS6
ATOM	39046	N	GLU	F	22	179.133	112.704	-97.431	1.00149.80	FS6
ATOM	39047	CA	GLU	F	22	178.727	112.364	-96.068	1.00149.80	FS6
ATOM	39048	CB	GLU	F	22	179.748	112.909	-95.063	1.00121.89	FS6
ATOM	39049	CG	GLU	F	22	181.165	112.360	-95.258	1.00121.89	FS6
ATOM	39050	CD	GLU	F	22	181.281	110.867	-94.955	1.00121.89	FS6
ATOM	39051	OE1	GLU	F	22	180.420	110.089	-95.414	1.00121.89	FS6
ATOM	39052	OE2	GLU	F	22	182.243	110.465	-94.267	1.00121.89	FS6
ATOM	39053	C	GLU	F	22	177.340	112.923	-95.777	1.00149.80	FS6
ATOM	39054	O	GLU	F	22	176.518	112.271	-95.127	1.00149.80	FS6
ATOM	39055	N	LYS	F	23	177.087	114.131	-96.274	1.00108.98	FS6
ATOM	39056	CA	LYS	F	23	175.800	114.788	-96.091	1.00108.98	FS6
ATOM	39057	CB	LYS	F	23	175.850	116.210	-96.644	1.00 94.38	FS6
ATOM	39058	CG	LYS	F	23	176.975	117.054	-96.068	1.00 94.38	FS6
ATOM	39059	CD	LYS	F	23	176.827	118.507	-96.480	1.00 94.38	FS6
ATOM	39060	CE	LYS	F	23	175.484	119.064	-96.011	1.00 94.38	FS6
ATOM	39061	NZ	LYS	F	23	175.239	120.456	-96.493	1.00 94.38	FS6
ATOM	39062	C	LYS	F	23	174.724	113.990	-96.811	1.00108.98	FS6
ATOM	39063	O	LYS	F	23	173.559	114.002	-96.417	1.00108.98	FS6
ATOM	39064	N	GLU	F	24	175.119	113.302	-97.877	1.00138.86	FS6
ATOM	39065	CA	GLU	F	24	174.187	112.482	-98.635	1.00138.86	FS6
ATOM	39066	CB	GLU	F	24	174.889	111.841	-99.839	1.00176.42	FS6
ATOM	39067	CG	GLU	F	24	174.188	110.608	-100.405	1.00176.42	FS6
ATOM	39068	CD	GLU	F	24	172.745	110.872	-100.794	1.00176.42	FS6
ATOM	39069	OE1	GLU	F	24	172.509	111.733	-101.665	1.00176.42	FS6
ATOM	39070	OE2	GLU	F	24	171.846	110.216	-100.227	1.00176.42	FS6
ATOM	39071	C	GLU	F	24	173.637	111.399	-97.721	1.00138.86	FS6
ATOM	39072	O	GLU	F	24	172.421	111.229	-97.612	1.00138.86	FS6
ATOM	39073	N	ILE	F	25	174.536	110.675	-97.056	1.00119.05	FS6
ATOM	39074	CA	ILE	F	25	174.123	109.605	-96.153	1.00119.05	FS6
ATOM	39075	CB	ILE	F	25	175.321	108.772	-95.660	1.00110.24	FS6
ATOM	39076	CG2	ILE	F	25	174.814	107.555	-94.892	1.00110.24	FS6
ATOM	39077	CG1	ILE	F	25	176.170	108.327	-96.854	1.00110.24	FS6
ATOM	39078	CD1	ILE	F	25	177.369	107.484	-96.490	1.00110.24	FS6
ATOM	39079	C	ILE	F	25	173.390	110.169	-94.944	1.00119.05	FS6
ATOM	39080	O	ILE	F	25	172.433	109.566	-94.461	1.00119.05	FS6
ATOM	39081	N	ILE	F	26	173.842	111.320	-94.453	1.00 98.38	FS6
ATOM	39082	CA	ILE	F	26	173.188	111.950	-93.313	1.00 98.38	FS6
ATOM	39083	CB	ILE	F	26	173.906	113.265	-92.887	1.00 74.50	FS6
ATOM	39084	CG2	ILE	F	26	173.081	113.994	-91.826	1.00 74.50	FS6
ATOM	39085	CG1	ILE	F	26	175.307	112.960	-92.343	1.00 74.50	FS6
ATOM	39086	CD1	ILE	F	26	176.063	114.203	-91.868	1.00 74.50	FS6
ATOM	39087	C	ILE	F	26	171.744	112.264	-93.723	1.00 98.38	FS6
ATOM	39088	O	ILE	F	26	170.796	111.746	-93.131	1.00 98.38	FS6
ATOM	39089	N	GLN	F	27	171.585	113.106	-94.742	1.00 98.95	FS6
ATOM	39090	CA	GLN	F	27	170.265	113.473	-95.245	1.00 98.95	FS6
ATOM	39091	CB	GLN	F	27	170.401	114.217	-96.569	1.00142.00	FS6
ATOM	39092	CG	GLN	F	27	170.925	115.614	-96.408	1.00142.00	FS6
ATOM	39093	CD	GLN	F	27	169.964	116.485	-95.637	1.00142.00	FS6
ATOM	39094	OE1	GLN	F	27	170.291	117.614	-95.277	1.00142.00	FS6
ATOM	39095	NE2	GLN	F	27	168.763	115.970	-95.385	1.00142.00	FS6
ATOM	39096	C	GLN	F	27	169.410	112.234	-95.455	1.00 98.95	FS6
ATOM	39097	O	GLN	F	27	168.217	112.219	-95.136	1.00 98.95	FS6
ATOM	39098	N	ARG	F	28	170.037	111.198	-96.002	1.00 99.49	FS6
ATOM	39099	CA	ARG	F	28	169.362	109.940	-96.264	1.00 99.49	FS6
ATOM	39100	CB	ARG	F	28	170.307	108.996	-97.008	1.00133.17	FS6
ATOM	39101	CG	ARG	F	28	169.631	108.016	-97.944	1.00133.17	FS6
ATOM	39102	CD	ARG	F	28	170.639	107.000	-98.458	1.00133.17	FS6
ATOM	39103	NE	ARG	F	28	170.181	106.310	-99.663	1.00133.17	FS6

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ATOM	39104	CZ	ARG	F	28	170.206	106.836	-100.888	1.00133.17	FS6
ATOM	39105	NH1	ARG	F	28	170.671	108.065	-101.076	1.00133.17	FS6
ATOM	39106	NH2	ARG	F	28	169.764	106.135	-101.928	1.00133.17	FS6
ATOM	39107	C	ARG	F	28	168.977	109.335	-94.918	1.00 99.49	FS6
ATOM	39108	O	ARG	F	28	167.799	109.139	-94.623	1.00 99.49	FS6
ATOM	39109	N	ALA	F	29	169.987	109.062	-94.098	1.00110.42	FS6
ATOM	39110	CA	ALA	F	29	169.797	108.470	-92.776	1.00110.42	FS6
ATOM	39111	CB	ALA	F	29	171.098	108.510	-92.004	1.00124.36	FS6
ATOM	39112	C	ALA	F	29	168.703	109.147	-91.969	1.00110.42	FS6
ATOM	39113	O	ALA	F	29	167.892	108.479	-91.333	1.00110.42	FS6
ATOM	39114	N	LEU	F	30	168.698	110.473	-91.976	1.00104.34	FS6
ATOM	39115	CA	LEU	F	30	167.682	111.216	-91.254	1.00104.34	FS6
ATOM	39116	CB	LEU	F	30	167.806	112.703	-91.567	1.00 73.89	FS6
ATOM	39117	CG	LEU	F	30	169.067	113.329	-90.972	1.00 73.89	FS6
ATOM	39118	CD1	LEU	F	30	169.418	114.640	-91.656	1.00 73.89	FS6
ATOM	39119	CD2	LEU	F	30	168.840	113.538	-89.486	1.00 73.89	FS6
ATOM	39120	C	LEU	F	30	166.326	110.686	-91.699	1.00104.34	FS6
ATOM	39121	O	LEU	F	30	165.566	110.149	-90.890	1.00104.34	FS6
ATOM	39122	N	GLU	F	31	166.037	110.824	-92.990	1.00112.70	FS6
ATOM	39123	CA	GLU	F	31	164.777	110.345	-93.552	1.00112.70	FS6
ATOM	39124	CB	GLU	F	31	164.831	110.352	-95.077	1.00176.18	FS6
ATOM	39125	CG	GLU	F	31	164.208	111.555	-95.735	1.00176.18	FS6
ATOM	39126	CD	GLU	F	31	163.766	111.247	-97.152	1.00176.18	FS6
ATOM	39127	OE1	GLU	F	31	164.609	110.782	-97.949	1.00176.18	FS6
ATOM	39128	OE2	GLU	F	31	162.577	111.462	-97.466	1.00176.18	FS6
ATOM	39129	C	GLU	F	31	164.458	108.927	-93.099	1.00112.70	FS6
ATOM	39130	O	GLU	F	31	163.407	108.673	-92.518	1.00112.70	FS6
ATOM	39131	N	ASN	F	32	165.376	108.010	-93.386	1.00105.93	FS6
ATOM	39132	CA	ASN	F	32	165.232	106.599	-93.044	1.00105.93	FS6
ATOM	39133	CB	ASN	F	32	166.552	105.879	-93.310	1.00149.36	FS6
ATOM	39134	CG	ASN	F	32	167.031	106.062	-94.734	1.00149.36	FS6
ATOM	39135	OD1	ASN	F	32	168.189	105.792	-95.049	1.00149.36	FS6
ATOM	39136	ND2	ASN	F	32	166.137	106.520	-95.607	1.00149.36	FS6
ATOM	39137	C	ASN	F	32	164.793	106.347	-91.602	1.00105.93	FS6
ATOM	39138	O	ASN	F	32	164.388	105.234	-91.259	1.00105.93	FS6
ATOM	39139	N	TYR	F	33	164.876	107.375	-90.761	1.00123.11	FS6
ATOM	39140	CA	TYR	F	33	164.480	107.240	-89.367	1.00123.11	FS6
ATOM	39141	CB	TYR	F	33	165.677	107.488	-88.448	1.00 90.72	FS6
ATOM	39142	CG	TYR	F	33	166.630	106.314	-88.387	1.00 90.72	FS6
ATOM	39143	CD1	TYR	F	33	167.856	106.344	-89.051	1.00 90.72	FS6
ATOM	39144	CE1	TYR	F	33	168.719	105.246	-89.018	1.00 90.72	FS6
ATOM	39145	CD2	TYR	F	33	166.288	105.158	-87.687	1.00 90.72	FS6
ATOM	39146	CE2	TYR	F	33	167.137	104.057	-87.645	1.00 90.72	FS6
ATOM	39147	CZ	TYR	F	33	168.350	104.104	-88.310	1.00 90.72	FS6
ATOM	39148	OH	TYR	F	33	169.192	103.013	-88.258	1.00 90.72	FS6
ATOM	39149	C	TYR	F	33	163.327	108.150	-88.975	1.00123.11	FS6
ATOM	39150	O	TYR	F	33	162.908	108.164	-87.821	1.00123.11	FS6
ATOM	39151	N	GLY	F	34	162.809	108.908	-89.934	1.00 89.52	FS6
ATOM	39152	CA	GLY	F	34	161.694	109.790	-89.650	1.00 89.52	FS6
ATOM	39153	C	GLY	F	34	162.090	111.235	-89.414	1.00 89.52	FS6
ATOM	39154	O	GLY	F	34	161.233	112.081	-89.157	1.00 89.52	FS6
ATOM	39155	N	ALA	F	35	163.382	111.532	-89.500	1.00125.67	FS6
ATOM	39156	CA	ALA	F	35	163.854	112.897	-89.287	1.00125.67	FS6
ATOM	39157	CB	ALA	F	35	165.383	112.929	-89.270	1.00104.00	FS6
ATOM	39158	C	ALA	F	35	163.319	113.850	-90.353	1.00125.67	FS6
ATOM	39159	O	ALA	F	35	163.588	113.694	-91.544	1.00125.67	FS6
ATOM	39160	N	ARG	F	36	162.553	114.837	-89.912	1.00 84.02	FS6
ATOM	39161	CA	ARG	F	36	161.984	115.832	-90.811	1.00 84.02	FS6
ATOM	39162	CB	ARG	F	36	160.487	115.951	-90.539	1.00113.74	FS6
ATOM	39163	CG	ARG	F	36	159.798	117.101	-91.230	1.00113.74	FS6
ATOM	39164	CD	ARG	F	36	158.441	117.336	-90.586	1.00113.74	FS6
ATOM	39165	NE	ARG	F	36	157.843	118.603	-90.992	1.00113.74	FS6
ATOM	39166	CZ	ARG	F	36	158.447	119.784	-90.886	1.00113.74	FS6
ATOM	39167	NH1	ARG	F	36	159.674	119.864	-90.389	1.00113.74	FS6
ATOM	39168	NH2	ARG	F	36	157.820	120.889	-91.272	1.00113.74	FS6
ATOM	39169	C	ARG	F	36	162.698	117.168	-90.552	1.00 84.02	FS6
ATOM	39170	O	ARG	F	36	162.379	117.888	-89.605	1.00 84.02	FS6
ATOM	39171	N	VAL	F	37	163.670	117.491	-91.398	1.00104.53	FS6
ATOM	39172	CA	VAL	F	37	164.448	118.719	-91.242	1.00104.53	FS6
ATOM	39173	CB	VAL	F	37	165.506	118.849	-92.356	1.00100.34	FS6
ATOM	39174	CG1	VAL	F	37	166.374	120.088	-92.103	1.00100.34	FS6
ATOM	39175	CG2	VAL	F	37	166.354	117.580	-92.420	1.00100.34	FS6
ATOM	39176	C	VAL	F	37	163.643	120.016	-91.217	1.00104.53	FS6
ATOM	39177	O	VAL	F	37	162.945	120.341	-92.172	1.00104.53	FS6
ATOM	39178	N	GLU	F	38	163.762	120.764	-90.126	1.00 95.45	FS6
ATOM	39179	CA	GLU	F	38	163.059	122.033	-89.993	1.00 95.45	FS6
ATOM	39180	CB	GLU	F	38	162.560	122.235	-88.561	1.00112.71	FS6

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ATOM	39181	CG	GLU	F	38	161.504	121.236	-88.123	1.00112.71	FS6
ATOM	39182	CD	GLU	F	38	160.826	121.640	-86.830	1.00112.71	FS6
ATOM	39183	OE1	GLU	F	38	159.987	120.860	-86.332	1.00112.71	FS6
ATOM	39184	OE2	GLU	F	38	161.127	122.738	-86.315	1.00112.71	FS6
ATOM	39185	C	GLU	F	38	163.951	123.202	-90.396	1.00 95.45	FS6
ATOM	39186	O	GLU	F	38	163.474	124.321	-90.546	1.00 95.45	FS6
ATOM	39187	N	LYS	F	39	165.246	122.939	-90.547	1.00116.32	FS6
ATOM	39188	CA	LYS	F	39	166.221	123.944	-90.976	1.00116.32	FS6
ATOM	39189	CB	LYS	F	39	165.914	125.336	-90.411	1.00139.64	FS6
ATOM	39190	CG	LYS	F	39	166.224	125.559	-88.958	1.00139.64	FS6
ATOM	39191	CD	LYS	F	39	165.939	127.015	-88.633	1.00139.64	FS6
ATOM	39192	CE	LYS	F	39	166.241	127.355	-87.187	1.00139.64	FS6
ATOM	39193	NZ	LYS	F	39	165.936	128.789	-86.897	1.00139.64	FS6
ATOM	39194	C	LYS	F	39	167.634	123.538	-90.610	1.00116.32	FS6
ATOM	39195	O	LYS	F	39	167.838	122.665	-89.769	1.00116.32	FS6
ATOM	39196	N	VAL	F	40	168.611	124.180	-91.243	1.00104.63	FS6
ATOM	39197	CA	VAL	F	40	170.005	123.836	-91.008	1.00104.63	FS6
ATOM	39198	CB	VAL	F	40	170.466	122.768	-92.054	1.00 86.22	FS6
ATOM	39199	CG1	VAL	F	40	169.844	123.065	-93.403	1.00 86.22	FS6
ATOM	39200	CG2	VAL	F	40	171.985	122.751	-92.174	1.00 86.22	FS6
ATOM	39201	C	VAL	F	40	170.990	125.004	-90.999	1.00104.63	FS6
ATOM	39202	O	VAL	F	40	170.744	126.050	-91.594	1.00104.63	FS6
ATOM	39203	N	GLU	F	41	172.098	124.802	-90.291	1.00109.55	FS6
ATOM	39204	CA	GLU	F	41	173.178	125.774	-90.176	1.00109.55	FS6
ATOM	39205	CB	GLU	F	41	173.250	126.352	-88.766	1.00149.90	FS6
ATOM	39206	CG	GLU	F	41	172.108	127.269	-88.404	1.00149.90	FS6
ATOM	39207	CD	GLU	F	41	172.226	127.781	-86.987	1.00149.90	FS6
ATOM	39208	OE1	GLU	F	41	173.305	128.308	-86.642	1.00149.90	FS6
ATOM	39209	OE2	GLU	F	41	171.245	127.659	-86.221	1.00149.90	FS6
ATOM	39210	C	GLU	F	41	174.454	125.002	-90.453	1.00109.55	FS6
ATOM	39211	O	GLU	F	41	174.620	123.889	-89.960	1.00109.55	FS6
ATOM	39212	N	GLU	F	42	175.357	125.587	-91.232	1.00135.34	FS6
ATOM	39213	CA	GLU	F	42	176.604	124.911	-91.563	1.00135.34	FS6
ATOM	39214	CB	GLU	F	42	176.561	124.450	-93.021	1.00129.97	FS6
ATOM	39215	CG	GLU	F	42	177.574	123.380	-93.387	1.00129.97	FS6
ATOM	39216	CD	GLU	F	42	177.337	122.823	-94.783	1.00129.97	FS6
ATOM	39217	OE1	GLU	F	42	178.084	121.912	-95.205	1.00129.97	FS6
ATOM	39218	OE2	GLU	F	42	176.396	123.298	-95.458	1.00129.97	FS6
ATOM	39219	C	GLU	F	42	177.793	125.833	-91.332	1.00135.34	FS6
ATOM	39220	O	GLU	F	42	178.291	126.470	-92.258	1.00135.34	FS6
ATOM	39221	N	LEU	F	43	178.237	125.899	-90.081	1.00109.37	FS6
ATOM	39222	CA	LEU	F	43	179.366	126.737	-89.699	1.00109.37	FS6
ATOM	39223	CB	LEU	F	43	179.527	126.731	-88.178	1.00 90.88	FS6
ATOM	39224	CG	LEU	F	43	178.433	127.405	-87.347	1.00 90.88	FS6
ATOM	39225	CD1	LEU	F	43	178.584	128.904	-87.478	1.00 90.88	FS6
ATOM	39226	CD2	LEU	F	43	177.040	126.943	-87.785	1.00 90.88	FS6
ATOM	39227	C	LEU	F	43	180.646	126.233	-90.353	1.00109.37	FS6
ATOM	39228	O	LEU	F	43	181.623	126.974	-90.487	1.00109.37	FS6
ATOM	39229	N	GLY	F	44	180.638	124.965	-90.749	1.00131.97	FS6
ATOM	39230	CA	GLY	F	44	181.798	124.390	-91.401	1.00131.97	FS6
ATOM	39231	C	GLY	F	44	182.987	124.134	-90.498	1.00131.97	FS6
ATOM	39232	O	GLY	F	44	182.876	123.417	-89.509	1.00131.97	FS6
ATOM	39233	N	LEU	F	45	184.129	124.723	-90.840	1.00114.09	FS6
ATOM	39234	CA	LEU	F	45	185.347	124.543	-90.057	1.00114.09	FS6
ATOM	39235	CB	LEU	F	45	186.578	124.758	-90.933	1.00108.16	FS6
ATOM	39236	CG	LEU	F	45	186.848	123.728	-92.023	1.00108.16	FS6
ATOM	39237	CD1	LEU	F	45	188.249	123.959	-92.578	1.00108.16	FS6
ATOM	39238	CD2	LEU	F	45	186.739	122.320	-91.448	1.00108.16	FS6
ATOM	39239	C	LEU	F	45	185.463	125.457	-88.849	1.00114.09	FS6
ATOM	39240	O	LEU	F	45	185.095	126.628	-88.910	1.00114.09	FS6
ATOM	39241	N	ARG	F	46	185.985	124.909	-87.753	1.00110.34	FS6
ATOM	39242	CA	ARG	F	46	186.195	125.664	-86.518	1.00110.34	FS6
ATOM	39243	CB	ARG	F	46	184.918	125.714	-85.668	1.00155.31	FS6
ATOM	39244	CG	ARG	F	46	183.807	126.573	-86.263	1.00155.31	FS6
ATOM	39245	CD	ARG	F	46	182.866	127.084	-85.189	1.00155.31	FS6
ATOM	39246	NE	ARG	F	46	183.549	127.982	-84.258	1.00155.31	FS6
ATOM	39247	CZ	ARG	F	46	182.980	128.540	-83.190	1.00155.31	FS6
ATOM	39248	NH1	ARG	F	46	181.705	128.297	-82.904	1.00155.31	FS6
ATOM	39249	NH2	ARG	F	46	183.686	129.347	-82.405	1.00155.31	FS6
ATOM	39250	C	ARG	F	46	187.337	125.049	-85.717	1.00110.34	FS6
ATOM	39251	O	ARG	F	46	187.484	123.824	-85.654	1.00110.34	FS6
ATOM	39252	N	ARG	F	47	188.154	125.912	-85.120	1.00102.04	FS6
ATOM	39253	CA	ARG	F	47	189.299	125.467	-84.343	1.00102.04	FS6
ATOM	39254	CB	ARG	F	47	190.234	126.648	-84.055	1.00169.28	FS6
ATOM	39255	CG	ARG	F	47	190.521	127.520	-85.275	1.00169.28	FS6
ATOM	39256	CD	ARG	F	47	190.941	126.680	-86.483	1.00169.28	FS6
ATOM	39257	NE	ARG	F	47	190.914	127.436	-87.739	1.00169.28	FS6

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ATOM	39258	CZ	ARG	F	47	190.969	126.885	-88.953	1.00169.28	FS6
ATOM	39259	NH1	ARG	F	47	191.056	125.565	-89.086	1.00169.28	FS6
ATOM	39260	NH2	ARG	F	47	190.928	127.652	-90.038	1.00169.28	FS6
ATOM	39261	C	ARG	F	47	188.821	124.851	-83.042	1.00102.04	FS6
ATOM	39262	O	ARG	F	47	188.366	125.564	-82.149	1.00102.04	FS6
ATOM	39263	N	LEU	F	48	188.910	123.526	-82.947	1.00 80.88	FS6
ATOM	39264	CA	LEU	F	48	188.493	122.805	-81.746	1.00 80.88	FS6
ATOM	39265	CB	LEU	F	48	188.639	121.305	-81.959	1.00 61.20	FS6
ATOM	39266	CG	LEU	F	48	187.865	120.753	-83.153	1.00 61.20	FS6
ATOM	39267	CD1	LEU	F	48	188.110	119.246	-83.244	1.00 61.20	FS6
ATOM	39268	CD2	LEU	F	48	186.368	121.070	-83.016	1.00 61.20	FS6
ATOM	39269	C	LEU	F	48	189.351	123.222	-80.558	1.00 80.88	FS6
ATOM	39270	O	LEU	F	48	190.499	123.615	-80.735	1.00 80.88	FS6
ATOM	39271	N	ALA	F	49	188.800	123.132	-79.350	1.00 76.92	FS6
ATOM	39272	CA	ALA	F	49	189.544	123.514	-78.149	1.00 76.92	FS6
ATOM	39273	CB	ALA	F	49	188.620	123.535	-76.945	1.00140.06	FS6
ATOM	39274	C	ALA	F	49	190.674	122.528	-77.923	1.00 76.92	FS6
ATOM	39275	O	ALA	F	49	191.682	122.842	-77.288	1.00 76.92	FS6
ATOM	39276	N	TYR	F	50	190.484	121.330	-78.459	1.00 97.57	FS6
ATOM	39277	CA	TYR	F	50	191.463	120.262	-78.358	1.00 97.57	FS6
ATOM	39278	CB	TYR	F	50	191.254	119.467	-77.072	1.00 79.35	FS6
ATOM	39279	CG	TYR	F	50	189.882	118.848	-76.979	1.00 79.35	FS6
ATOM	39280	CD1	TYR	F	50	188.780	119.604	-76.584	1.00 79.35	FS6
ATOM	39281	CE1	TYR	F	50	187.501	119.049	-76.536	1.00 79.35	FS6
ATOM	39282	CD2	TYR	F	50	189.677	117.517	-77.324	1.00 79.35	FS6
ATOM	39283	CE2	TYR	F	50	188.402	116.952	-77.282	1.00 79.35	FS6
ATOM	39284	CZ	TYR	F	50	187.318	117.725	-76.888	1.00 79.35	FS6
ATOM	39285	OH	TYR	F	50	186.055	117.173	-76.863	1.00 79.35	FS6
ATOM	39286	C	TYR	F	50	191.284	119.338	-79.557	1.00 97.57	FS6
ATOM	39287	O	TYR	F	50	190.213	119.284	-80.163	1.00 97.57	FS6
ATOM	39288	N	PRO	F	51	192.333	118.594	-79.910	1.00 75.64	FS6
ATOM	39289	CD	PRO	F	51	193.630	118.509	-79.224	1.00111.91	FS6
ATOM	39290	CA	PRO	F	51	192.296	117.669	-81.039	1.00 75.64	FS6
ATOM	39291	CB	PRO	F	51	193.711	117.104	-81.062	1.00111.91	FS6
ATOM	39292	CG	PRO	F	51	194.100	117.140	-79.631	1.00111.91	FS6
ATOM	39293	C	PRO	F	51	191.248	116.572	-80.938	1.00 75.64	FS6
ATOM	39294	O	PRO	F	51	190.983	116.039	-79.862	1.00 75.64	FS6
ATOM	39295	N	ILE	F	52	190.657	116.247	-82.081	1.00112.03	FS6
ATOM	39296	CA	ILE	F	52	189.653	115.201	-82.178	1.00112.03	FS6
ATOM	39297	CB	ILE	F	52	188.267	115.791	-82.501	1.00 78.60	FS6
ATOM	39298	CG2	ILE	F	52	187.303	114.678	-82.916	1.00 78.60	FS6
ATOM	39299	CG1	ILE	F	52	187.753	116.560	-81.281	1.00 78.60	FS6
ATOM	39300	CD1	ILE	F	52	186.313	117.045	-81.395	1.00 78.60	FS6
ATOM	39301	C	ILE	F	52	190.106	114.264	-83.292	1.00112.03	FS6
ATOM	39302	O	ILE	F	52	190.119	114.639	-84.467	1.00112.03	FS6
ATOM	39303	N	ALA	F	53	190.481	113.047	-82.911	1.00104.56	FS6
ATOM	39304	CA	ALA	F	53	190.978	112.069	-83.865	1.00104.56	FS6
ATOM	39305	CB	ALA	F	53	189.905	111.743	-84.895	1.00 88.26	FS6
ATOM	39306	C	ALA	F	53	192.207	112.707	-84.527	1.00104.56	FS6
ATOM	39307	O	ALA	F	53	192.260	112.894	-85.743	1.00104.56	FS6
ATOM	39308	N	LYS	F	54	193.177	113.061	-83.682	1.00 95.82	FS6
ATOM	39309	CA	LYS	F	54	194.446	113.684	-84.072	1.00 95.82	FS6
ATOM	39310	CB	LYS	F	54	195.232	112.761	-85.007	1.00113.03	FS6
ATOM	39311	CG	LYS	F	54	195.113	111.279	-84.676	1.00113.03	FS6
ATOM	39312	CD	LYS	F	54	195.433	110.984	-83.220	1.00113.03	FS6
ATOM	39313	CE	LYS	F	54	194.952	109.585	-82.838	1.00113.03	FS6
ATOM	39314	NZ	LYS	F	54	195.108	109.283	-81.381	1.00113.03	FS6
ATOM	39315	C	LYS	F	54	194.272	115.046	-84.732	1.00 95.82	FS6
ATOM	39316	O	LYS	F	54	195.126	115.921	-84.600	1.00 95.82	FS6
ATOM	39317	N	ASP	F	55	193.153	115.213	-85.428	1.00 91.86	FS6
ATOM	39318	CA	ASP	F	55	192.828	116.443	-86.145	1.00 91.86	FS6
ATOM	39319	CB	ASP	F	55	191.650	116.163	-87.078	1.00149.05	FS6
ATOM	39320	CG	ASP	F	55	191.637	117.063	-88.287	1.00149.05	FS6
ATOM	39321	OD1	ASP	F	55	191.573	118.299	-88.119	1.00149.05	FS6
ATOM	39322	OD2	ASP	F	55	191.691	116.525	-89.412	1.00149.05	FS6
ATOM	39323	C	ASP	F	55	192.479	117.604	-85.198	1.00 91.86	FS6
ATOM	39324	O	ASP	F	55	191.595	117.466	-84.352	1.00 91.86	FS6
ATOM	39325	N	PRO	F	56	193.158	118.765	-85.342	1.00 87.66	FS6
ATOM	39326	CD	PRO	F	56	194.368	118.905	-86.169	1.00 85.13	FS6
ATOM	39327	CA	PRO	F	56	192.970	119.979	-84.534	1.00 87.66	FS6
ATOM	39328	CB	PRO	F	56	194.346	120.609	-84.571	1.00 85.13	FS6
ATOM	39329	CG	PRO	F	56	194.725	120.371	-85.979	1.00 85.13	FS6
ATOM	39330	C	PRO	F	56	191.889	120.976	-84.991	1.00 87.66	FS6
ATOM	39331	O	PRO	F	56	191.871	122.131	-84.542	1.00 87.66	FS6
ATOM	39332	N	GLN	F	57	190.998	120.537	-85.877	1.00 73.38	FS6
ATOM	39333	CA	GLN	F	57	189.919	121.385	-86.386	1.00 73.38	FS6
ATOM	39334	CB	GLN	F	57	190.321	122.036	-87.711	1.00178.02	FS6

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ATOM	39335	CG	GLN	F	57	191.786	122.419	-87.817	1.00178.02	FS6
ATOM	39336	CD	GLN	F	57	192.215	122.685	-89.248	1.00178.02	FS6
ATOM	39337	OE1	GLN	F	57	193.394	122.910	-89.522	1.00178.02	FS6
ATOM	39338	NE2	GLN	F	57	191.256	122.660	-90.170	1.00178.02	FS6
ATOM	39339	C	GLN	F	57	188.773	120.430	-86.652	1.00 73.38	FS6
ATOM	39340	O	GLN	F	57	188.946	119.212	-86.572	1.00 73.38	FS6
ATOM	39341	N	GLY	F	58	187.608	120.975	-86.977	1.00 80.34	FS6
ATOM	39342	CA	GLY	F	58	186.468	120.126	-87.260	1.00 80.34	FS6
ATOM	39343	C	GLY	F	58	185.484	120.810	-88.187	1.00 80.34	FS6
ATOM	39344	O	GLY	F	58	185.450	122.045	-88.263	1.00 80.34	FS6
ATOM	39345	N	TYR	F	59	184.695	120.017	-88.908	1.00 92.57	FS6
ATOM	39346	CA	TYR	F	59	183.689	120.570	-89.806	1.00 92.57	FS6
ATOM	39347	CB	TYR	F	59	183.754	119.902	-91.173	1.00102.10	FS6
ATOM	39348	CG	TYR	F	59	182.966	120.655	-92.210	1.00102.10	FS6
ATOM	39349	CD1	TYR	F	59	183.460	121.833	-92.760	1.00102.10	FS6
ATOM	39350	CE1	TYR	F	59	182.727	122.550	-93.697	1.00102.10	FS6
ATOM	39351	CD2	TYR	F	59	181.714	120.210	-92.620	1.00102.10	FS6
ATOM	39352	CE2	TYR	F	59	180.971	120.921	-93.555	1.00102.10	FS6
ATOM	39353	CZ	TYR	F	59	181.484	122.088	-94.092	1.00102.10	FS6
ATOM	39354	OH	TYR	F	59	180.762	122.780	-95.037	1.00102.10	FS6
ATOM	39355	C	TYR	F	59	182.319	120.320	-89.177	1.00 92.57	FS6
ATOM	39356	O	TYR	F	59	181.871	119.174	-89.086	1.00 92.57	FS6
ATOM	39357	N	PHE	F	60	181.658	121.398	-88.759	1.00117.17	FS6
ATOM	39358	CA	PHE	F	60	180.365	121.306	-88.090	1.00117.17	FS6
ATOM	39359	CB	PHE	F	60	180.280	122.355	-86.975	1.00111.60	FS6
ATOM	39360	CG	PHE	F	60	181.276	122.153	-85.865	1.00111.60	FS6
ATOM	39361	CD1	PHE	F	60	182.630	122.394	-86.069	1.00111.60	FS6
ATOM	39362	CD2	PHE	F	60	180.859	121.729	-84.610	1.00111.60	FS6
ATOM	39363	CE1	PHE	F	60	183.557	122.219	-85.034	1.00111.60	FS6
ATOM	39364	CE2	PHE	F	60	181.776	121.551	-83.570	1.00111.60	FS6
ATOM	39365	CZ	PHE	F	60	183.127	121.796	-83.784	1.00111.60	FS6
ATOM	39366	C	PHE	F	60	179.104	121.405	-88.942	1.00117.17	FS6
ATOM	39367	O	PHE	F	60	179.031	122.168	-89.908	1.00117.17	FS6
ATOM	39368	N	LEU	F	61	178.110	120.619	-88.534	1.00119.71	FS6
ATOM	39369	CA	LEU	F	61	176.795	120.549	-89.163	1.00119.71	FS6
ATOM	39370	CB	LEU	F	61	176.581	119.188	-89.820	1.00 98.43	FS6
ATOM	39371	CG	LEU	F	61	177.409	118.902	-91.064	1.00 98.43	FS6
ATOM	39372	CD1	LEU	F	61	177.164	117.470	-91.516	1.00 98.43	FS6
ATOM	39373	CD2	LEU	F	61	177.034	119.904	-92.148	1.00 98.43	FS6
ATOM	39374	C	LEU	F	61	175.763	120.723	-88.060	1.00119.71	FS6
ATOM	39375	O	LEU	F	61	176.018	120.377	-86.908	1.00119.71	FS6
ATOM	39376	N	TRP	F	62	174.592	121.240	-88.412	1.00114.02	FS6
ATOM	39377	CA	TRP	F	62	173.550	121.457	-87.420	1.00114.02	FS6
ATOM	39378	CB	TRP	F	62	173.700	122.858	-86.828	1.00118.66	FS6
ATOM	39379	CG	TRP	F	62	172.832	123.106	-85.648	1.00118.66	FS6
ATOM	39380	CD2	TRP	F	62	171.541	123.719	-85.653	1.00118.66	FS6
ATOM	39381	CE2	TRP	F	62	171.087	123.746	-84.317	1.00118.66	FS6
ATOM	39382	CE3	TRP	F	62	170.720	124.249	-86.657	1.00118.66	FS6
ATOM	39383	CD1	TRP	F	62	173.102	122.789	-84.350	1.00118.66	FS6
ATOM	39384	NE1	TRP	F	62	172.060	123.173	-83.541	1.00118.66	FS6
ATOM	39385	CZ2	TRP	F	62	169.846	124.284	-83.959	1.00118.66	FS6
ATOM	39386	CZ3	TRP	F	62	169.486	124.784	-86.301	1.00118.66	FS6
ATOM	39387	CH2	TRP	F	62	169.063	124.796	-84.963	1.00118.66	FS6
ATOM	39388	C	TRP	F	62	172.150	121.298	-88.013	1.00114.02	FS6
ATOM	39389	O	TRP	F	62	171.685	122.160	-88.749	1.00114.02	FS6
ATOM	39390	N	TYR	F	63	171.479	120.195	-87.695	1.00109.89	FS6
ATOM	39391	CA	TYR	F	63	170.132	119.970	-88.199	1.00109.89	FS6
ATOM	39392	CB	TYR	F	63	170.029	118.642	-88.947	1.00138.00	FS6
ATOM	39393	CG	TYR	F	63	171.050	118.467	-90.033	1.00138.00	FS6
ATOM	39394	CD1	TYR	F	63	171.369	119.514	-90.894	1.00138.00	FS6
ATOM	39395	CE1	TYR	F	63	172.309	119.348	-91.905	1.00138.00	FS6
ATOM	39396	CD2	TYR	F	63	171.694	117.245	-90.211	1.00138.00	FS6
ATOM	39397	CE2	TYR	F	63	172.632	117.067	-91.217	1.00138.00	FS6
ATOM	39398	CZ	TYR	F	63	172.937	118.119	-92.062	1.00138.00	FS6
ATOM	39399	OH	TYR	F	63	173.862	117.935	-93.065	1.00138.00	FS6
ATOM	39400	C	TYR	F	63	169.129	119.955	-87.062	1.00109.89	FS6
ATOM	39401	O	TYR	F	63	169.327	119.288	-86.046	1.00109.89	FS6
ATOM	39402	N	GLN	F	64	168.049	120.703	-87.244	1.00 95.43	FS6
ATOM	39403	CA	GLN	F	64	166.978	120.773	-86.267	1.00 95.43	FS6
ATOM	39404	CB	GLN	F	64	166.509	122.214	-86.125	1.00 97.18	FS6
ATOM	39405	CG	GLN	F	64	165.185	122.355	-85.425	1.00 97.18	FS6
ATOM	39406	CD	GLN	F	64	164.844	123.796	-85.168	1.00 97.18	FS6
ATOM	39407	OE1	GLN	F	64	165.497	124.464	-84.365	1.00 97.18	FS6
ATOM	39408	NE2	GLN	F	64	163.825	124.297	-85.857	1.00 97.18	FS6
ATOM	39409	C	GLN	F	64	165.855	119.911	-86.816	1.00 95.43	FS6
ATOM	39410	O	GLN	F	64	165.214	120.288	-87.786	1.00 95.43	FS6
ATOM	39411	N	VAL	F	65	165.612	118.757	-86.208	1.00 90.99	FS6

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ATOM	39412	CA	VAL	F	65	164.567	117.876	-86.716	1.00	90.99	FS6
ATOM	39413	CB	VAL	F	65	165.099	116.427	-86.947	1.00	69.70	FS6
ATOM	39414	CG1	VAL	F	65	166.525	116.477	-87.444	1.00	69.70	FS6
ATOM	39415	CG2	VAL	F	65	165.004	115.597	-85.665	1.00	69.70	FS6
ATOM	39416	C	VAL	F	65	163.329	117.775	-85.841	1.00	90.99	FS6
ATOM	39417	O	VAL	F	65	163.241	118.381	-84.774	1.00	90.99	FS6
ATOM	39418	N	GLU	F	66	162.379	116.996	-86.342	1.00	94.59	FS6
ATOM	39419	CA	GLU	F	66	161.115	116.692	-85.691	1.00	94.59	FS6
ATOM	39420	CB	GLU	F	66	159.984	117.516	-86.313	1.00	159.49	FS6
ATOM	39421	CG	GLU	F	66	158.587	117.137	-85.833	1.00	159.49	FS6
ATOM	39422	CD	GLU	F	66	157.486	117.830	-86.622	1.00	159.49	FS6
ATOM	39423	OE1	GLU	F	66	157.440	119.080	-86.607	1.00	159.49	FS6
ATOM	39424	OE2	GLU	F	66	156.671	117.124	-87.258	1.00	159.49	FS6
ATOM	39425	C	GLU	F	66	160.978	115.224	-86.082	1.00	94.59	FS6
ATOM	39426	O	GLU	F	66	160.796	114.923	-87.263	1.00	94.59	FS6
ATOM	39427	N	MET	F	67	161.082	114.308	-85.120	1.00	76.44	FS6
ATOM	39428	CA	MET	F	67	161.018	112.884	-85.455	1.00	76.44	FS6
ATOM	39429	CB	MET	F	67	162.405	112.398	-85.882	1.00	105.95	FS6
ATOM	39430	CG	MET	F	67	163.453	112.559	-84.786	1.00	105.95	FS6
ATOM	39431	SD	MET	F	67	165.088	111.900	-85.174	1.00	105.95	FS6
ATOM	39432	CE	MET	F	67	164.927	110.194	-84.599	1.00	105.95	FS6
ATOM	39433	C	MET	F	67	160.532	111.996	-84.326	1.00	76.44	FS6
ATOM	39434	O	MET	F	67	160.507	112.404	-83.167	1.00	76.44	FS6
ATOM	39435	N	PRO	F	68	160.142	110.757	-84.654	1.00	108.93	FS6
ATOM	39436	CD	PRO	F	68	160.006	110.181	-86.001	1.00	126.82	FS6
ATOM	39437	CA	PRO	F	68	159.662	109.815	-83.646	1.00	108.93	FS6
ATOM	39438	CB	PRO	F	68	159.415	108.549	-84.454	1.00	126.82	FS6
ATOM	39439	CG	PRO	F	68	158.991	109.089	-85.771	1.00	126.82	FS6
ATOM	39440	C	PRO	F	68	160.733	109.622	-82.586	1.00	108.93	FS6
ATOM	39441	O	PRO	F	68	161.781	109.023	-82.843	1.00	108.93	FS6
ATOM	39442	N	GLU	F	69	160.459	110.152	-81.400	1.00	106.32	FS6
ATOM	39443	CA	GLU	F	69	161.361	110.074	-80.257	1.00	106.32	FS6
ATOM	39444	CB	GLU	F	69	160.633	110.559	-79.002	1.00	126.41	FS6
ATOM	39445	CG	GLU	F	69	159.267	111.200	-79.264	1.00	126.41	FS6
ATOM	39446	CD	GLU	F	69	158.198	110.189	-79.654	1.00	126.41	FS6
ATOM	39447	OE1	GLU	F	69	158.276	109.624	-80.766	1.00	126.41	FS6
ATOM	39448	OE2	GLU	F	69	157.277	109.954	-78.842	1.00	126.41	FS6
ATOM	39449	C	GLU	F	69	161.896	108.665	-80.015	1.00	106.32	FS6
ATOM	39450	O	GLU	F	69	163.072	108.478	-79.689	1.00	106.32	FS6
ATOM	39451	N	ASP	F	70	161.024	107.679	-80.175	1.00	92.14	FS6
ATOM	39452	CA	ASP	F	70	161.389	106.289	-79.961	1.00	92.14	FS6
ATOM	39453	CB	ASP	F	70	160.139	105.416	-80.027	1.00	162.21	FS6
ATOM	39454	CG	ASP	F	70	159.502	105.428	-81.398	1.00	162.21	FS6
ATOM	39455	OD1	ASP	F	70	159.197	106.532	-81.896	1.00	162.21	FS6
ATOM	39456	OD2	ASP	F	70	159.307	104.337	-81.977	1.00	162.21	FS6
ATOM	39457	C	ASP	F	70	162.419	105.776	-80.969	1.00	92.14	FS6
ATOM	39458	O	ASP	F	70	162.648	104.568	-81.063	1.00	92.14	FS6
ATOM	39459	N	ARG	F	71	163.039	106.679	-81.723	1.00	109.70	FS6
ATOM	39460	CA	ARG	F	71	164.039	106.274	-82.709	1.00	109.70	FS6
ATOM	39461	CB	ARG	F	71	163.388	106.098	-84.081	1.00	139.60	FS6
ATOM	39462	CG	ARG	F	71	162.318	105.025	-84.097	1.00	139.60	FS6
ATOM	39463	CD	ARG	F	71	162.461	104.124	-85.299	1.00	139.60	FS6
ATOM	39464	NE	ARG	F	71	162.399	104.879	-86.545	1.00	139.60	FS6
ATOM	39465	CZ	ARG	F	71	162.494	104.331	-87.752	1.00	139.60	FS6
ATOM	39466	NH1	ARG	F	71	162.656	103.019	-87.872	1.00	139.60	FS6
ATOM	39467	NH2	ARG	F	71	162.430	105.092	-88.838	1.00	139.60	FS6
ATOM	39468	C	ARG	F	71	165.195	107.259	-82.809	1.00	109.70	FS6
ATOM	39469	O	ARG	F	71	165.998	107.204	-83.739	1.00	109.70	FS6
ATOM	39470	N	VAL	F	72	165.276	108.160	-81.841	1.00	92.15	FS6
ATOM	39471	CA	VAL	F	72	166.339	109.144	-81.829	1.00	92.15	FS6
ATOM	39472	CB	VAL	F	72	166.115	110.207	-80.736	1.00	94.99	FS6
ATOM	39473	CG1	VAL	F	72	167.318	111.129	-80.644	1.00	94.99	FS6
ATOM	39474	CG2	VAL	F	72	164.880	111.012	-81.055	1.00	94.99	FS6
ATOM	39475	C	VAL	F	72	167.645	108.436	-81.558	1.00	92.15	FS6
ATOM	39476	O	VAL	F	72	168.665	108.744	-82.165	1.00	92.15	FS6
ATOM	39477	N	ASN	F	73	167.619	107.475	-80.648	1.00	94.31	FS6
ATOM	39478	CA	ASN	F	73	168.843	106.773	-80.335	1.00	94.31	FS6
ATOM	39479	CB	ASN	F	73	168.671	105.908	-79.083	1.00	98.28	FS6
ATOM	39480	CG	ASN	F	73	169.323	106.535	-77.853	1.00	98.28	FS6
ATOM	39481	OD1	ASN	F	73	170.541	106.447	-77.659	1.00	98.28	FS6
ATOM	39482	ND2	ASN	F	73	168.516	107.192	-77.033	1.00	98.28	FS6
ATOM	39483	C	ASN	F	73	169.356	105.956	-81.505	1.00	94.31	FS6
ATOM	39484	O	ASN	F	73	170.565	105.881	-81.701	1.00	94.31	FS6
ATOM	39485	N	ASP	F	74	168.460	105.361	-82.295	1.00	106.93	FS6
ATOM	39486	CA	ASP	F	74	168.898	104.577	-83.455	1.00	106.93	FS6
ATOM	39487	CB	ASP	F	74	167.761	103.725	-84.014	1.00	110.77	FS6
ATOM	39488	CG	ASP	F	74	167.194	102.777	-82.988	1.00	110.77	FS6

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ATOM	39489	OD1	ASP	F	74	167.981	102.237	-82.186	1.00110.77	FS6
ATOM	39490	OD2	ASP	F	74	165.963	102.563	-82.989	1.00110.77	FS6
ATOM	39491	C	ASP	F	74	169.418	105.500	-84.550	1.00106.93	FS6
ATOM	39492	O	ASP	F	74	170.443	105.221	-85.167	1.00106.93	FS6
ATOM	39493	N	LEU	F	75	168.703	106.598	-84.782	1.00 83.47	FS6
ATOM	39494	CA	LEU	F	75	169.094	107.586	-85.784	1.00 83.47	FS6
ATOM	39495	CB	LEU	F	75	168.235	108.852	-85.638	1.00 88.69	FS6
ATOM	39496	CG	LEU	F	75	168.434	110.052	-86.583	1.00 88.69	FS6
ATOM	39497	CD1	LEU	F	75	169.783	110.741	-86.357	1.00 88.69	FS6
ATOM	39498	CD2	LEU	F	75	168.304	109.566	-88.015	1.00 88.69	FS6
ATOM	39499	C	LEU	F	75	170.569	107.958	-85.627	1.00 83.47	FS6
ATOM	39500	O	LEU	F	75	171.279	108.175	-86.616	1.00 83.47	FS6
ATOM	39501	N	ALA	F	76	171.031	108.036	-84.385	1.00 89.55	FS6
ATOM	39502	CA	ALA	F	76	172.414	108.402	-84.140	1.00 89.55	FS6
ATOM	39503	CB	ALA	F	76	172.521	109.214	-82.852	1.00 64.39	FS6
ATOM	39504	C	ALA	F	76	173.385	107.217	-84.127	1.00 89.55	FS6
ATOM	39505	O	ALA	F	76	174.594	107.423	-84.226	1.00 89.55	FS6
ATOM	39506	N	ARG	F	77	172.889	105.987	-83.987	1.00109.49	FS6
ATOM	39507	CA	ARG	F	77	173.797	104.842	-84.045	1.00109.49	FS6
ATOM	39508	CB	ARG	F	77	173.067	103.507	-84.003	1.00163.81	FS6
ATOM	39509	CG	ARG	F	77	172.509	103.070	-82.694	1.00163.81	FS6
ATOM	39510	CD	ARG	F	77	171.840	101.732	-82.919	1.00163.81	FS6
ATOM	39511	NE	ARG	F	77	171.087	101.269	-81.760	1.00163.81	FS6
ATOM	39512	CZ	ARG	F	77	170.238	100.246	-81.791	1.00163.81	FS6
ATOM	39513	NH1	ARG	F	77	170.040	99.585	-82.928	1.00163.81	FS6
ATOM	39514	NH2	ARG	F	77	169.584	99.885	-80.692	1.00163.81	FS6
ATOM	39515	C	ARG	F	77	174.307	104.987	-85.462	1.00109.49	FS6
ATOM	39516	O	ARG	F	77	175.510	104.994	-85.728	1.00109.49	FS6
ATOM	39517	N	GLU	F	78	173.335	105.109	-86.364	1.00 88.55	FS6
ATOM	39518	CA	GLU	F	78	173.568	105.248	-87.786	1.00 88.55	FS6
ATOM	39519	CB	GLU	F	78	172.234	105.518	-88.486	1.00129.47	FS6
ATOM	39520	CG	GLU	F	78	172.235	105.261	-89.983	1.00129.47	FS6
ATOM	39521	CD	GLU	F	78	172.477	103.803	-90.332	1.00129.47	FS6
ATOM	39522	OE1	GLU	F	78	171.764	102.936	-89.780	1.00129.47	FS6
ATOM	39523	OE2	GLU	F	78	173.372	103.525	-91.164	1.00129.47	FS6
ATOM	39524	C	GLU	F	78	174.551	106.376	-88.070	1.00 88.55	FS6
ATOM	39525	O	GLU	F	78	175.608	106.161	-88.666	1.00 88.55	FS6
ATOM	39526	N	LEU	F	79	174.209	107.578	-87.626	1.00 76.91	FS6
ATOM	39527	CA	LEU	F	79	175.062	108.728	-87.865	1.00 76.91	FS6
ATOM	39528	CB	LEU	F	79	174.476	109.969	-87.183	1.00 60.38	FS6
ATOM	39529	CG	LEU	F	79	173.151	110.479	-87.766	1.00 60.38	FS6
ATOM	39530	CD1	LEU	F	79	172.836	111.882	-87.237	1.00 60.38	FS6
ATOM	39531	CD2	LEU	F	79	173.258	110.520	-89.283	1.00 60.38	FS6
ATOM	39532	C	LEU	F	79	176.529	108.560	-87.460	1.00 76.91	FS6
ATOM	39533	O	LEU	F	79	177.419	109.126	-88.100	1.00 76.91	FS6
ATOM	39534	N	ARG	F	80	176.798	107.782	-86.418	1.00102.94	FS6
ATOM	39535	CA	ARG	F	80	178.177	107.604	-85.970	1.00102.94	FS6
ATOM	39536	CB	ARG	F	80	178.209	107.194	-84.500	1.00 94.41	FS6
ATOM	39537	CG	ARG	F	80	177.412	108.070	-83.546	1.00 94.41	FS6
ATOM	39538	CD	ARG	F	80	177.472	107.456	-82.143	1.00 94.41	FS6
ATOM	39539	NE	ARG	F	80	176.406	107.908	-81.252	1.00 94.41	FS6
ATOM	39540	CZ	ARG	F	80	176.188	109.178	-80.933	1.00 94.41	FS6
ATOM	39541	NH1	ARG	F	80	176.963	110.132	-81.440	1.00 94.41	FS6
ATOM	39542	NH2	ARG	F	80	175.209	109.490	-80.088	1.00 94.41	FS6
ATOM	39543	C	ARG	F	80	178.960	106.571	-86.781	1.00102.94	FS6
ATOM	39544	O	ARG	F	80	180.194	106.531	-86.708	1.00102.94	FS6
ATOM	39545	N	ILE	F	81	178.243	105.741	-87.541	1.00110.44	FS6
ATOM	39546	CA	ILE	F	81	178.856	104.686	-88.360	1.00110.44	FS6
ATOM	39547	CB	ILE	F	81	177.830	104.021	-89.276	1.00103.76	FS6
ATOM	39548	CG2	ILE	F	81	178.485	102.877	-90.029	1.00103.76	FS6
ATOM	39549	CG1	ILE	F	81	176.656	103.501	-88.454	1.00103.76	FS6
ATOM	39550	CD1	ILE	F	81	175.552	102.912	-89.298	1.00103.76	FS6
ATOM	39551	C	ILE	F	81	179.967	105.207	-89.255	1.00110.44	FS6
ATOM	39552	O	ILE	F	81	181.041	104.602	-89.365	1.00110.44	FS6
ATOM	39553	N	ARG	F	82	179.674	106.322	-89.912	1.00122.40	FS6
ATOM	39554	CA	ARG	F	82	180.614	106.975	-90.808	1.00122.40	FS6
ATOM	39555	CB	ARG	F	82	180.013	108.304	-91.282	1.00144.04	FS6
ATOM	39556	CG	ARG	F	82	178.718	108.172	-92.099	1.00144.04	FS6
ATOM	39557	CD	ARG	F	82	179.005	107.890	-93.575	1.00144.04	FS6
ATOM	39558	NE	ARG	F	82	179.514	106.542	-93.820	1.00144.04	FS6
ATOM	39559	CZ	ARG	F	82	180.069	106.147	-94.963	1.00144.04	FS6
ATOM	39560	NH1	ARG	F	82	180.198	106.994	-95.975	1.00144.04	FS6
ATOM	39561	NH2	ARG	F	82	180.488	104.898	-95.099	1.00144.04	FS6
ATOM	39562	C	ARG	F	82	181.967	107.210	-90.118	1.00122.40	FS6
ATOM	39563	O	ARG	F	82	182.031	107.503	-88.918	1.00122.40	FS6
ATOM	39564	N	ASP	F	83	183.042	107.081	-90.891	1.00 97.52	FS6
ATOM	39565	CA	ASP	F	83	184.397	107.252	-90.382	1.00 97.52	FS6

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ATOM	39566	CB	ASP	F	83	185.373	106.460	-91.251	1.00198.84	FS6
ATOM	39567	CG	ASP	F	83	184.990	104.996	-91.365	1.00198.84	FS6
ATOM	39568	OD1	ASP	F	83	185.730	104.237	-92.026	1.00198.84	FS6
ATOM	39569	OD2	ASP	F	83	183.948	104.602	-90.795	1.00198.84	FS6
ATOM	39570	C	ASP	F	83	184.823	108.713	-90.326	1.00 97.52	FS6
ATOM	39571	O	ASP	F	83	185.717	109.081	-89.565	1.00 97.52	FS6
ATOM	39572	N	ASN	F	84	184.191	109.549	-91.137	1.00113.38	FS6
ATOM	39573	CA	ASN	F	84	184.523	110.964	-91.140	1.00113.38	FS6
ATOM	39574	CB	ASN	F	84	184.256	111.561	-92.516	1.00132.92	FS6
ATOM	39575	CG	ASN	F	84	185.241	111.072	-93.551	1.00132.92	FS6
ATOM	39576	OD1	ASN	F	84	186.362	111.575	-93.638	1.00132.92	FS6
ATOM	39577	ND2	ASN	F	84	184.840	110.070	-94.326	1.00132.92	FS6
ATOM	39578	C	ASN	F	84	183.705	111.673	-90.077	1.00113.38	FS6
ATOM	39579	O	ASN	F	84	184.057	112.761	-89.633	1.00113.38	FS6
ATOM	39580	N	VAL	F	85	182.602	111.050	-89.677	1.00106.59	FS6
ATOM	39581	CA	VAL	F	85	181.754	111.606	-88.634	1.00106.59	FS6
ATOM	39582	CB	VAL	F	85	180.317	111.050	-88.724	1.00112.59	FS6
ATOM	39583	CG1	VAL	F	85	179.507	111.491	-87.527	1.00112.59	FS6
ATOM	39584	CG2	VAL	F	85	179.655	111.553	-89.993	1.00112.59	FS6
ATOM	39585	C	VAL	F	85	182.408	111.170	-87.328	1.00106.59	FS6
ATOM	39586	O	VAL	F	85	182.310	110.003	-86.926	1.00106.59	FS6
ATOM	39587	N	ARG	F	86	183.092	112.115	-86.686	1.00115.69	FS6
ATOM	39588	CA	ARG	F	86	183.804	111.853	-85.440	1.00115.69	FS6
ATOM	39589	CB	ARG	F	86	185.204	112.471	-85.530	1.00114.26	FS6
ATOM	39590	CG	ARG	F	86	185.303	113.627	-86.513	1.00114.26	FS6
ATOM	39591	CD	ARG	F	86	186.758	113.989	-86.850	1.00114.26	FS6
ATOM	39592	NE	ARG	F	86	187.467	112.907	-87.534	1.00114.26	FS6
ATOM	39593	CZ	ARG	F	86	188.673	113.028	-88.083	1.00114.26	FS6
ATOM	39594	NH1	ARG	F	86	189.318	114.188	-88.038	1.00114.26	FS6
ATOM	39595	NH2	ARG	F	86	189.233	111.983	-88.677	1.00114.26	FS6
ATOM	39596	C	ARG	F	86	183.087	112.299	-84.154	1.00115.69	FS6
ATOM	39597	O	ARG	F	86	183.558	112.029	-83.037	1.00115.69	FS6
ATOM	39598	N	ARG	F	87	181.943	112.963	-84.316	1.00 95.70	FS6
ATOM	39599	CA	ARG	F	87	181.133	113.415	-83.187	1.00 95.70	FS6
ATOM	39600	CB	ARG	F	87	181.734	114.657	-82.561	1.00 89.86	FS6
ATOM	39601	CG	ARG	F	87	182.911	114.370	-81.672	1.00 89.86	FS6
ATOM	39602	CD	ARG	F	87	182.490	113.909	-80.290	1.00 89.86	FS6
ATOM	39603	NE	ARG	F	87	183.423	114.469	-79.321	1.00 89.86	FS6
ATOM	39604	CZ	ARG	F	87	184.703	114.128	-79.241	1.00 89.86	FS6
ATOM	39605	NH1	ARG	F	87	185.205	113.211	-80.061	1.00 89.86	FS6
ATOM	39606	NH2	ARG	F	87	185.492	114.738	-78.370	1.00 89.86	FS6
ATOM	39607	C	ARG	F	87	179.704	113.717	-83.589	1.00 95.70	FS6
ATOM	39608	O	ARG	F	87	179.452	114.550	-84.461	1.00 95.70	FS6
ATOM	39609	N	VAL	F	88	178.770	113.025	-82.953	1.00 86.09	FS6
ATOM	39610	CA	VAL	F	88	177.356	113.237	-83.218	1.00 86.09	FS6
ATOM	39611	CB	VAL	F	88	176.685	111.984	-83.789	1.00 88.80	FS6
ATOM	39612	CG1	VAL	F	88	175.316	112.340	-84.346	1.00 88.80	FS6
ATOM	39613	CG2	VAL	F	88	177.564	111.362	-84.845	1.00 88.80	FS6
ATOM	39614	C	VAL	F	88	176.732	113.526	-81.867	1.00 86.09	FS6
ATOM	39615	O	VAL	F	88	177.125	112.931	-80.863	1.00 86.09	FS6
ATOM	39616	N	MET	F	89	175.773	114.442	-81.829	1.00 84.10	FS6
ATOM	39617	CA	MET	F	89	175.112	114.770	-80.574	1.00 84.10	FS6
ATOM	39618	CB	MET	F	89	175.934	115.796	-79.786	1.00103.85	FS6
ATOM	39619	CG	MET	F	89	175.334	116.148	-78.427	1.00103.85	FS6
ATOM	39620	SD	MET	F	89	176.362	117.232	-77.401	1.00103.85	FS6
ATOM	39621	CE	MET	F	89	175.731	118.859	-77.862	1.00103.85	FS6
ATOM	39622	C	MET	F	89	173.710	115.310	-80.799	1.00 84.10	FS6
ATOM	39623	O	MET	F	89	173.545	116.423	-81.296	1.00 84.10	FS6
ATOM	39624	N	VAL	F	90	172.702	114.516	-80.443	1.00109.83	FS6
ATOM	39625	CA	VAL	F	90	171.314	114.947	-80.584	1.00109.83	FS6
ATOM	39626	CB	VAL	F	90	170.357	113.768	-80.853	1.00 59.22	FS6
ATOM	39627	CG1	VAL	F	90	168.980	114.308	-81.193	1.00 59.22	FS6
ATOM	39628	CG2	VAL	F	90	170.895	112.893	-81.979	1.00 59.22	FS6
ATOM	39629	C	VAL	F	90	170.910	115.617	-79.272	1.00109.83	FS6
ATOM	39630	O	VAL	F	90	171.421	115.278	-78.207	1.00109.83	FS6
ATOM	39631	N	VAL	F	91	169.988	116.564	-79.348	1.00110.70	FS6
ATOM	39632	CA	VAL	F	91	169.566	117.293	-78.165	1.00110.70	FS6
ATOM	39633	CB	VAL	F	91	170.399	118.589	-78.027	1.00 77.51	FS6
ATOM	39634	CG1	VAL	F	91	169.856	119.456	-76.908	1.00 77.51	FS6
ATOM	39635	CG2	VAL	F	91	171.844	118.247	-77.782	1.00 77.51	FS6
ATOM	39636	C	VAL	F	91	168.093	117.673	-78.241	1.00110.70	FS6
ATOM	39637	O	VAL	F	91	167.610	118.083	-79.297	1.00110.70	FS6
ATOM	39638	N	LYS	F	92	167.368	117.531	-77.135	1.00 88.53	FS6
ATOM	39639	CA	LYS	F	92	165.968	117.928	-77.144	1.00 88.53	FS6
ATOM	39640	CB	LYS	F	92	165.285	117.613	-75.818	1.00100.92	FS6
ATOM	39641	CG	LYS	F	92	164.769	116.201	-75.685	1.00100.92	FS6
ATOM	39642	CD	LYS	F	92	163.351	116.243	-75.148	1.00100.92	FS6

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ATOM	39643	CE	LYS	F	92	162.937	114.919	-74.532	1.00100.92	FS6
ATOM	39644	NZ	LYS	F	92	163.719	114.608	-73.297	1.00100.92	FS6
ATOM	39645	C	LYS	F	92	166.025	119.427	-77.327	1.00 88.53	FS6
ATOM	39646	O	LYS	F	92	166.870	120.092	-76.724	1.00 88.53	FS6
ATOM	39647	N	SER	F	93	165.153	119.966	-78.166	1.00 81.91	FS6
ATOM	39648	CA	SER	F	93	165.153	121.404	-78.385	1.00 81.91	FS6
ATOM	39649	CB	SER	F	93	164.267	121.755	-79.579	1.00128.24	FS6
ATOM	39650	OG	SER	F	93	164.722	121.096	-80.745	1.00128.24	FS6
ATOM	39651	C	SER	F	93	164.625	122.069	-77.125	1.00 81.91	FS6
ATOM	39652	O	SER	F	93	163.894	121.446	-76.351	1.00 81.91	FS6
ATOM	39653	N	GLN	F	94	165.003	123.325	-76.907	1.00 79.59	FS6
ATOM	39654	CA	GLN	F	94	164.539	124.052	-75.729	1.00 79.59	FS6
ATOM	39655	CB	GLN	F	94	165.483	123.805	-74.552	1.00122.72	FS6
ATOM	39656	CG	GLN	F	94	165.732	122.337	-74.269	1.00122.72	FS6
ATOM	39657	CD	GLN	F	94	166.606	122.107	-73.055	1.00122.72	FS6
ATOM	39658	OE1	GLN	F	94	167.192	121.036	-72.900	1.00122.72	FS6
ATOM	39659	NE2	GLN	F	94	166.691	123.105	-72.180	1.00122.72	FS6
ATOM	39660	C	GLN	F	94	164.402	125.558	-75.967	1.00 79.59	FS6
ATOM	39661	O	GLN	F	94	165.091	126.138	-76.812	1.00 79.59	FS6
ATOM	39662	N	GLU	F	95	163.498	126.183	-75.221	1.00 84.21	FS6
ATOM	39663	CA	GLU	F	95	163.275	127.616	-75.331	1.00 84.21	FS6
ATOM	39664	CB	GLU	F	95	162.183	128.055	-74.358	1.00166.48	FS6
ATOM	39665	CG	GLU	F	95	160.858	127.317	-74.525	1.00166.48	FS6
ATOM	39666	CD	GLU	F	95	160.988	125.808	-74.363	1.00166.48	FS6
ATOM	39667	OE1	GLU	F	95	161.584	125.359	-73.357	1.00166.48	FS6
ATOM	39668	OE2	GLU	F	95	160.487	125.070	-75.240	1.00166.48	FS6
ATOM	39669	C	GLU	F	95	164.591	128.296	-74.977	1.00 84.21	FS6
ATOM	39670	O	GLU	F	95	165.247	127.936	-74.001	1.00 84.21	FS6
ATOM	39671	N	PRO	F	96	165.003	129.281	-75.773	1.00126.28	FS6
ATOM	39672	CD	PRO	F	96	164.348	129.854	-76.960	1.00151.84	FS6
ATOM	39673	CA	PRO	F	96	166.260	129.967	-75.480	1.00126.28	FS6
ATOM	39674	CB	PRO	F	96	166.469	130.832	-76.716	1.00151.84	FS6
ATOM	39675	CG	PRO	F	96	165.062	131.176	-77.105	1.00151.84	FS6
ATOM	39676	C	PRO	F	96	166.203	130.783	-74.190	1.00126.28	FS6
ATOM	39677	O	PRO	F	96	165.971	131.992	-74.216	1.00126.28	FS6
ATOM	39678	N	PHE	F	97	166.403	130.103	-73.064	1.00 91.81	FS6
ATOM	39679	CA	PHE	F	97	166.410	130.737	-71.744	1.00 91.81	FS6
ATOM	39680	CB	PHE	F	97	166.801	129.695	-70.681	1.00 86.13	FS6
ATOM	39681	CG	PHE	F	97	166.840	130.231	-69.271	1.00 86.13	FS6
ATOM	39682	CD1	PHE	F	97	165.701	130.222	-68.475	1.00 86.13	FS6
ATOM	39683	CD2	PHE	F	97	168.019	130.751	-68.742	1.00 86.13	FS6
ATOM	39684	CE1	PHE	F	97	165.737	130.720	-67.173	1.00 86.13	FS6
ATOM	39685	CE2	PHE	F	97	168.066	131.254	-67.440	1.00 86.13	FS6
ATOM	39686	CZ	PHE	F	97	166.924	131.239	-66.655	1.00 86.13	FS6
ATOM	39687	C	PHE	F	97	167.432	131.889	-71.741	1.00 91.81	FS6
ATOM	39688	O	PHE	F	97	168.641	131.651	-71.771	1.00 91.81	FS6
ATOM	39689	N	LEU	F	98	166.954	133.131	-71.708	1.00113.41	FS6
ATOM	39690	CA	LEU	F	98	167.854	134.286	-71.698	1.00113.41	FS6
ATOM	39691	CB	LEU	F	98	167.117	135.552	-72.129	1.00117.22	FS6
ATOM	39692	CG	LEU	F	98	166.498	135.535	-73.523	1.00117.22	FS6
ATOM	39693	CD1	LEU	F	98	165.811	136.867	-73.778	1.00117.22	FS6
ATOM	39694	CD2	LEU	F	98	167.583	135.265	-74.558	1.00117.22	FS6
ATOM	39695	C	LEU	F	98	168.456	134.522	-70.323	1.00113.41	FS6
ATOM	39696	O	LEU	F	98	168.308	133.706	-69.416	1.00113.41	FS6
ATOM	39697	N	ALA	F	99	169.124	135.656	-70.177	1.00 93.87	FS6
ATOM	39698	CA	ALA	F	99	169.760	136.021	-68.920	1.00 93.87	FS6
ATOM	39699	CB	ALA	F	99	170.777	134.979	-68.527	1.00118.02	FS6
ATOM	39700	C	ALA	F	99	170.456	137.328	-69.185	1.00 93.87	FS6
ATOM	39701	O	ALA	F	99	170.897	137.562	-70.306	1.00 93.87	FS6
ATOM	39702	N	ASN	F	100	170.554	138.184	-68.174	1.00148.47	FS6
ATOM	39703	CA	ASN	F	100	171.219	139.469	-68.362	1.00148.47	FS6
ATOM	39704	CB	ASN	F	100	172.709	139.221	-68.659	1.00134.19	FS6
ATOM	39705	CG	ASN	F	100	173.530	140.495	-68.705	1.00134.19	FS6
ATOM	39706	OD1	ASN	F	100	173.542	141.210	-69.706	1.00134.19	FS6
ATOM	39707	ND2	ASN	F	100	174.225	140.784	-67.613	1.00134.19	FS6
ATOM	39708	C	ASN	F	100	170.536	140.201	-69.528	1.00148.47	FS6
ATOM	39709	O	ASN	F	100	171.183	140.918	-70.289	1.00148.47	FS6
ATOM	39710	N	ALA	F	101	169.222	140.007	-69.656	1.00198.84	FS6
ATOM	39711	CA	ALA	F	101	168.432	140.627	-70.724	1.00198.84	FS6
ATOM	39712	CB	ALA	F	101	167.847	139.549	-71.635	1.00103.82	FS6
ATOM	39713	C	ALA	F	101	167.308	141.512	-70.195	1.00198.84	FS6
ATOM	39714	O	ALA	F	101	167.221	141.692	-68.962	1.00198.84	FS6
ATOM	39715	OXT	ALA	F	101	166.522	142.012	-71.030	1.00147.38	FS6
TER	39715		ALA	F	101					FS6
ATOM	39716	CB	ALA	G	2	217.193	137.618	-23.056	1.00 90.73	GS7
ATOM	39717	C	ALA	G	2	214.838	136.903	-22.531	1.00 78.08	GS7
ATOM	39718	O	ALA	G	2	214.590	137.220	-23.699	1.00 78.08	GS7

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ATOM	39719	N	ALA	G	2	216.824	135.826	-21.391	1.00	78.08	GS7
ATOM	39720	CA	ALA	G	2	216.254	137.086	-21.961	1.00	78.08	GS7
ATOM	39721	N	ARG	G	3	213.902	136.420	-21.716	1.00	87.90	GS7
ATOM	39722	CA	ARG	G	3	212.540	136.202	-22.210	1.00	87.90	GS7
ATOM	39723	CB	ARG	G	3	211.788	135.205	-21.311	1.00	67.00	GS7
ATOM	39724	CG	ARG	G	3	210.560	134.581	-21.979	1.00	67.00	GS7
ATOM	39725	CD	ARG	G	3	209.712	133.789	-20.986	1.00	67.00	GS7
ATOM	39726	NE	ARG	G	3	210.315	132.533	-20.516	1.00	67.00	GS7
ATOM	39727	CZ	ARG	G	3	210.425	131.423	-21.248	1.00	67.00	GS7
ATOM	39728	NH1	ARG	G	3	209.976	131.400	-22.506	1.00	67.00	GS7
ATOM	39729	NH2	ARG	G	3	210.969	130.330	-20.720	1.00	67.00	GS7
ATOM	39730	C	ARG	G	3	211.726	137.490	-22.346	1.00	87.90	GS7
ATOM	39731	O	ARG	G	3	210.816	137.568	-23.169	1.00	87.90	GS7
ATOM	39732	N	ARG	G	4	212.051	138.498	-21.544	1.00	91.97	GS7
ATOM	39733	CA	ARG	G	4	211.329	139.763	-21.599	1.00	91.97	GS7
ATOM	39734	CB	ARG	G	4	211.337	140.450	-20.236	1.00	131.24	GS7
ATOM	39735	CG	ARG	G	4	210.274	139.943	-19.305	1.00	131.24	GS7
ATOM	39736	CD	ARG	G	4	210.136	140.839	-18.095	1.00	131.24	GS7
ATOM	39737	NE	ARG	G	4	209.051	140.391	-17.228	1.00	131.24	GS7
ATOM	39738	CZ	ARG	G	4	207.764	140.427	-17.560	1.00	131.24	GS7
ATOM	39739	NH1	ARG	G	4	207.392	140.896	-18.746	1.00	131.24	GS7
ATOM	39740	NH2	ARG	G	4	206.850	139.987	-16.707	1.00	131.24	GS7
ATOM	39741	C	ARG	G	4	211.869	140.730	-22.633	1.00	91.97	GS7
ATOM	39742	O	ARG	G	4	211.520	140.653	-23.808	1.00	91.97	GS7
ATOM	39743	N	ARG	G	5	212.722	141.640	-22.170	1.00	121.03	GS7
ATOM	39744	CA	ARG	G	5	213.336	142.678	-22.998	1.00	121.03	GS7
ATOM	39745	CB	ARG	G	5	214.054	143.683	-22.089	1.00	197.35	GS7
ATOM	39746	CG	ARG	G	5	213.209	144.100	-20.888	1.00	197.35	GS7
ATOM	39747	CD	ARG	G	5	214.030	144.740	-19.774	1.00	197.35	GS7
ATOM	39748	NE	ARG	G	5	213.268	144.815	-18.526	1.00	197.35	GS7
ATOM	39749	CZ	ARG	G	5	213.737	145.302	-17.380	1.00	197.35	GS7
ATOM	39750	NH1	ARG	G	5	214.977	145.769	-17.307	1.00	197.35	GS7
ATOM	39751	NH2	ARG	G	5	212.967	145.318	-16.300	1.00	197.35	GS7
ATOM	39752	C	ARG	G	5	214.315	142.097	-24.005	1.00	121.03	GS7
ATOM	39753	O	ARG	G	5	214.470	140.881	-24.106	1.00	121.03	GS7
ATOM	39754	N	ARG	G	6	214.969	142.968	-24.760	1.00	85.04	GS7
ATOM	39755	CA	ARG	G	6	215.936	142.512	-25.745	1.00	85.04	GS7
ATOM	39756	CB	ARG	G	6	215.573	143.051	-27.128	1.00	129.64	GS7
ATOM	39757	CG	ARG	G	6	216.388	142.461	-28.271	1.00	129.64	GS7
ATOM	39758	CD	ARG	G	6	216.011	143.118	-29.591	1.00	129.64	GS7
ATOM	39759	NE	ARG	G	6	216.781	142.605	-30.721	1.00	129.64	GS7
ATOM	39760	CZ	ARG	G	6	216.733	143.119	-31.947	1.00	129.64	GS7
ATOM	39761	NH1	ARG	G	6	215.952	144.163	-32.198	1.00	129.64	GS7
ATOM	39762	NH2	ARG	G	6	217.461	142.592	-32.924	1.00	129.64	GS7
ATOM	39763	C	ARG	G	6	217.325	142.991	-25.343	1.00	85.04	GS7
ATOM	39764	O	ARG	G	6	218.006	143.647	-26.131	1.00	85.04	GS7
ATOM	39765	N	ALA	G	7	217.728	142.652	-24.115	1.00	146.08	GS7
ATOM	39766	CA	ALA	G	7	219.027	143.024	-23.529	1.00	146.08	GS7
ATOM	39767	CB	ALA	G	7	219.747	141.772	-22.998	1.00	85.10	GS7
ATOM	39768	C	ALA	G	7	219.967	143.806	-24.444	1.00	146.08	GS7
ATOM	39769	O	ALA	G	7	220.442	143.291	-25.455	1.00	146.08	GS7
ATOM	39770	N	GLU	G	8	220.236	145.053	-24.075	1.00	146.29	GS7
ATOM	39771	CA	GLU	G	8	221.124	145.909	-24.851	1.00	146.29	GS7
ATOM	39772	CB	GLU	G	8	220.855	147.384	-24.531	1.00	189.34	GS7
ATOM	39773	CG	GLU	G	8	220.358	147.660	-23.108	1.00	189.34	GS7
ATOM	39774	CD	GLU	G	8	221.276	147.121	-22.024	1.00	189.34	GS7
ATOM	39775	OE1	GLU	G	8	221.353	145.884	-21.860	1.00	189.34	GS7
ATOM	39776	OE2	GLU	G	8	221.919	147.938	-21.332	1.00	189.34	GS7
ATOM	39777	C	GLU	G	8	222.593	145.582	-24.590	1.00	146.29	GS7
ATOM	39778	O	GLU	G	8	222.932	144.942	-23.592	1.00	146.29	GS7
ATOM	39779	N	VAL	G	9	223.462	146.033	-25.489	1.00	86.66	GS7
ATOM	39780	CA	VAL	G	9	224.887	145.772	-25.362	1.00	86.66	GS7
ATOM	39781	CB	VAL	G	9	225.568	145.825	-26.734	1.00	94.99	GS7
ATOM	39782	CG1	VAL	G	9	227.068	145.587	-26.582	1.00	94.99	GS7
ATOM	39783	CG2	VAL	G	9	224.949	144.780	-27.649	1.00	94.99	GS7
ATOM	39784	C	VAL	G	9	225.644	146.702	-24.420	1.00	86.66	GS7
ATOM	39785	O	VAL	G	9	225.568	147.924	-24.536	1.00	86.66	GS7
ATOM	39786	N	ARG	G	10	226.383	146.106	-23.491	1.00	85.15	GS7
ATOM	39787	CA	ARG	G	10	227.184	146.867	-22.543	1.00	85.15	GS7
ATOM	39788	CB	ARG	G	10	227.887	145.916	-21.577	1.00	85.49	GS7
ATOM	39789	CG	ARG	G	10	226.988	145.059	-20.750	1.00	85.49	GS7
ATOM	39790	CD	ARG	G	10	227.819	144.090	-19.927	1.00	85.49	GS7
ATOM	39791	NE	ARG	G	10	227.235	143.868	-18.606	1.00	85.49	GS7
ATOM	39792	CZ	ARG	G	10	227.373	144.707	-17.586	1.00	85.49	GS7
ATOM	39793	NH1	ARG	G	10	228.086	145.816	-17.736	1.00	85.49	GS7
ATOM	39794	NH2	ARG	G	10	226.780	144.453	-16.425	1.00	85.49	GS7
ATOM	39795	C	ARG	G	10	228.263	147.672	-23.279	1.00	85.15	GS7

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ATOM	39796	O	ARG	G	10	229.177	147.083	-23.852	1.00	85.15	GS7
ATOM	39797	N	GLN	G	11	228.172	149.001	-23.282	1.00	99.82	GS7
ATOM	39798	CA	GLN	G	11	229.210	149.799	-23.940	1.00	99.82	GS7
ATOM	39799	CB	GLN	G	11	228.724	151.221	-24.220	1.00101.63		GS7
ATOM	39800	CG	GLN	G	11	228.408	151.470	-25.692	1.00101.63		GS7
ATOM	39801	CD	GLN	G	11	227.534	150.376	-26.303	1.00101.63		GS7
ATOM	39802	OE1	GLN	G	11	226.471	150.057	-25.777	1.00101.63		GS7
ATOM	39803	NE2	GLN	G	11	227.982	149.801	-27.419	1.00101.63		GS7
ATOM	39804	C	GLN	G	11	230.383	149.820	-22.978	1.00	99.82	GS7
ATOM	39805	O	GLN	G	11	230.172	149.868	-21.771	1.00	99.82	GS7
ATOM	39806	N	LEU	G	12	231.610	149.766	-23.491	1.00114.12		GS7
ATOM	39807	CA	LEU	G	12	232.776	149.755	-22.610	1.00114.12		GS7
ATOM	39808	CB	LEU	G	12	233.636	148.512	-22.855	1.00	94.91	GS7
ATOM	39809	CG	LEU	G	12	232.971	147.296	-23.501	1.00	94.91	GS7
ATOM	39810	CD1	LEU	G	12	232.780	147.565	-24.992	1.00	94.91	GS7
ATOM	39811	CD2	LEU	G	12	233.836	146.059	-23.297	1.00	94.91	GS7
ATOM	39812	C	LEU	G	12	233.645	150.986	-22.773	1.00114.12		GS7
ATOM	39813	O	LEU	G	12	233.730	151.559	-23.861	1.00114.12		GS7
ATOM	39814	N	GLN	G	13	234.294	151.384	-21.681	1.00112.32		GS7
ATOM	39815	CA	GLN	G	13	235.171	152.546	-21.690	1.00112.32		GS7
ATOM	39816	CB	GLN	G	13	235.645	152.859	-20.271	1.00152.55		GS7
ATOM	39817	CG	GLN	G	13	234.536	153.337	-19.348	1.00152.55		GS7
ATOM	39818	CD	GLN	G	13	233.959	154.676	-19.775	1.00152.55		GS7
ATOM	39819	OE1	GLN	G	13	234.676	155.674	-19.855	1.00152.55		GS7
ATOM	39820	NE2	GLN	G	13	232.657	154.703	-20.049	1.00152.55		GS7
ATOM	39821	C	GLN	G	13	236.363	152.249	-22.585	1.00112.32		GS7
ATOM	39822	O	GLN	G	13	237.029	151.231	-22.417	1.00112.32		GS7
ATOM	39823	N	PRO	G	14	236.643	153.136	-23.554	1.00	97.63	GS7
ATOM	39824	CD	PRO	G	14	235.911	154.387	-23.818	1.00	92.51	GS7
ATOM	39825	CA	PRO	G	14	237.760	152.977	-24.493	1.00	97.63	GS7
ATOM	39826	CB	PRO	G	14	237.615	154.193	-25.412	1.00	92.51	GS7
ATOM	39827	CG	PRO	G	14	236.944	155.210	-24.532	1.00	92.51	GS7
ATOM	39828	C	PRO	G	14	239.168	152.842	-23.893	1.00	97.63	GS7
ATOM	39829	O	PRO	G	14	239.405	153.107	-22.709	1.00	97.63	GS7
ATOM	39830	N	ASP	G	15	240.094	152.424	-24.748	1.00115.82		GS7
ATOM	39831	CA	ASP	G	15	241.486	152.195	-24.384	1.00115.82		GS7
ATOM	39832	CB	ASP	G	15	242.278	151.830	-25.649	1.00137.77		GS7
ATOM	39833	CG	ASP	G	15	243.557	151.071	-25.347	1.00137.77		GS7
ATOM	39834	OD1	ASP	G	15	244.651	151.601	-25.628	1.00137.77		GS7
ATOM	39835	OD2	ASP	G	15	243.469	149.937	-24.832	1.00137.77		GS7
ATOM	39836	C	ASP	G	15	242.155	153.371	-23.677	1.00115.82		GS7
ATOM	39837	O	ASP	G	15	241.992	154.524	-24.073	1.00115.82		GS7
ATOM	39838	N	LEU	G	16	242.905	153.056	-22.622	1.00120.32		GS7
ATOM	39839	CA	LEU	G	16	243.648	154.049	-21.849	1.00120.32		GS7
ATOM	39840	CB	LEU	G	16	244.107	153.462	-20.510	1.00123.05		GS7
ATOM	39841	CG	LEU	G	16	243.126	153.322	-19.348	1.00123.05		GS7
ATOM	39842	CD1	LEU	G	16	242.869	154.694	-18.756	1.00123.05		GS7
ATOM	39843	CD2	LEU	G	16	241.836	152.660	-19.820	1.00123.05		GS7
ATOM	39844	C	LEU	G	16	244.882	154.440	-22.652	1.00120.32		GS7
ATOM	39845	O	LEU	G	16	245.752	155.154	-22.156	1.00120.32		GS7
ATOM	39846	N	VAL	G	17	244.961	153.948	-23.886	1.00	96.10	GS7
ATOM	39847	CA	VAL	G	17	246.089	154.238	-24.763	1.00	96.10	GS7
ATOM	39848	CB	VAL	G	17	247.043	153.041	-24.865	1.00	82.54	GS7
ATOM	39849	CG1	VAL	G	17	248.204	153.384	-25.778	1.00	82.54	GS7
ATOM	39850	CG2	VAL	G	17	247.542	152.660	-23.476	1.00	82.54	GS7
ATOM	39851	C	VAL	G	17	245.619	154.608	-26.161	1.00	96.10	GS7
ATOM	39852	O	VAL	G	17	245.502	155.786	-26.472	1.00	96.10	GS7
ATOM	39853	N	TYR	G	18	245.350	153.611	-27.002	1.00102.56		GS7
ATOM	39854	CA	TYR	G	18	244.889	153.867	-28.369	1.00102.56		GS7
ATOM	39855	CB	TYR	G	18	244.921	152.585	-29.197	1.00104.07		GS7
ATOM	39856	CG	TYR	G	18	246.232	151.848	-29.114	1.00104.07		GS7
ATOM	39857	CD1	TYR	G	18	246.640	151.245	-27.924	1.00104.07		GS7
ATOM	39858	CE1	TYR	G	18	247.857	150.579	-27.835	1.00104.07		GS7
ATOM	39859	CD2	TYR	G	18	247.074	151.765	-30.218	1.00104.07		GS7
ATOM	39860	CE2	TYR	G	18	248.294	151.100	-30.146	1.00104.07		GS7
ATOM	39861	CZ	TYR	G	18	248.681	150.510	-28.951	1.00104.07		GS7
ATOM	39862	OH	TYR	G	18	249.894	149.858	-28.870	1.00104.07		GS7
ATOM	39863	C	TYR	G	18	243.468	154.424	-28.349	1.00102.56		GS7
ATOM	39864	O	TYR	G	18	242.873	154.681	-29.400	1.00102.56		GS7
ATOM	39865	N	GLY	G	19	242.937	154.598	-27.138	1.00104.16		GS7
ATOM	39866	CA	GLY	G	19	241.599	155.136	-26.957	1.00104.16		GS7
ATOM	39867	C	GLY	G	19	240.489	154.376	-27.651	1.00104.16		GS7
ATOM	39868	O	GLY	G	19	239.357	154.846	-27.708	1.00104.16		GS7
ATOM	39869	N	ASP	G	20	240.795	153.196	-28.174	1.00160.66		GS7
ATOM	39870	CA	ASP	G	20	239.779	152.416	-28.863	1.00160.66		GS7
ATOM	39871	CB	ASP	G	20	240.411	151.595	-29.978	1.00167.91		GS7
ATOM	39872	CG	ASP	G	20	239.383	151.045	-30.933	1.00167.91		GS7

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ATOM	39873	OD1	ASP	G	20	238.427	150.384	-30.473	1.00167.91	GS7
ATOM	39874	OD2	ASP	G	20	239.528	151.277	-32.148	1.00167.91	GS7
ATOM	39875	C	ASP	G	20	239.029	151.487	-27.919	1.00160.66	GS7
ATOM	39876	O	ASP	G	20	239.593	150.986	-26.947	1.00160.66	GS7
ATOM	39877	N	VAL	G	21	237.755	151.254	-28.223	1.00134.01	GS7
ATOM	39878	CA	VAL	G	21	236.904	150.389	-27.411	1.00134.01	GS7
ATOM	39879	CB	VAL	G	21	235.416	150.678	-27.690	1.00 90.85	GS7
ATOM	39880	CG1	VAL	G	21	235.108	152.149	-27.413	1.00 90.85	GS7
ATOM	39881	CG2	VAL	G	21	235.088	150.334	-29.130	1.00 90.85	GS7
ATOM	39882	C	VAL	G	21	237.172	148.896	-27.637	1.00134.01	GS7
ATOM	39883	O	VAL	G	21	237.316	148.132	-26.679	1.00134.01	GS7
ATOM	39884	N	LEU	G	22	237.235	148.485	-28.901	1.00109.37	GS7
ATOM	39885	CA	LEU	G	22	237.487	147.086	-29.247	1.00109.37	GS7
ATOM	39886	CB	LEU	G	22	237.749	146.951	-30.752	1.00 74.96	GS7
ATOM	39887	CG	LEU	G	22	238.084	145.546	-31.270	1.00 74.96	GS7
ATOM	39888	CD1	LEU	G	22	236.934	144.600	-30.938	1.00 74.96	GS7
ATOM	39889	CD2	LEU	G	22	238.338	145.578	-32.778	1.00 74.96	GS7
ATOM	39890	C	LEU	G	22	238.680	146.533	-28.469	1.00109.37	GS7
ATOM	39891	O	LEU	G	22	238.667	145.391	-28.012	1.00109.37	GS7
ATOM	39892	N	VAL	G	23	239.711	147.355	-28.323	1.00 77.48	GS7
ATOM	39893	CA	VAL	G	23	240.906	146.953	-27.604	1.00 77.48	GS7
ATOM	39894	CB	VAL	G	23	241.947	148.087	-27.572	1.00 80.96	GS7
ATOM	39895	CG1	VAL	G	23	243.078	147.724	-26.623	1.00 80.96	GS7
ATOM	39896	CG2	VAL	G	23	242.496	148.319	-28.978	1.00 80.96	GS7
ATOM	39897	C	VAL	G	23	240.572	146.537	-26.185	1.00 77.48	GS7
ATOM	39898	O	VAL	G	23	241.096	145.539	-25.696	1.00 77.48	GS7
ATOM	39899	N	THR	G	24	239.704	147.291	-25.520	1.00 79.02	GS7
ATOM	39900	CA	THR	G	24	239.325	146.929	-24.159	1.00 79.02	GS7
ATOM	39901	CB	THR	G	24	238.222	147.844	-23.611	1.00 69.51	GS7
ATOM	39902	OG1	THR	G	24	238.583	149.204	-23.866	1.00 69.51	GS7
ATOM	39903	CG2	THR	G	24	238.055	147.649	-22.092	1.00 69.51	GS7
ATOM	39904	C	THR	G	24	238.797	145.500	-24.205	1.00 79.02	GS7
ATOM	39905	O	THR	G	24	239.272	144.616	-23.477	1.00 79.02	GS7
ATOM	39906	N	ALA	G	25	237.815	145.285	-25.077	1.00 58.87	GS7
ATOM	39907	CA	ALA	G	25	237.217	143.969	-25.262	1.00 58.87	GS7
ATOM	39908	CB	ALA	G	25	236.392	143.952	-26.546	1.00 54.42	GS7
ATOM	39909	C	ALA	G	25	238.312	142.900	-25.322	1.00 58.87	GS7
ATOM	39910	O	ALA	G	25	238.391	142.030	-24.445	1.00 58.87	GS7
ATOM	39911	N	PHE	G	26	239.164	142.974	-26.345	1.00 87.81	GS7
ATOM	39912	CA	PHE	G	26	240.238	142.000	-26.486	1.00 87.81	GS7
ATOM	39913	CB	PHE	G	26	241.203	142.395	-27.603	1.00 88.33	GS7
ATOM	39914	CG	PHE	G	26	242.239	141.341	-27.904	1.00 88.33	GS7
ATOM	39915	CD1	PHE	G	26	241.890	140.174	-28.572	1.00 88.33	GS7
ATOM	39916	CD2	PHE	G	26	243.561	141.502	-27.500	1.00 88.33	GS7
ATOM	39917	CE1	PHE	G	26	242.845	139.178	-28.831	1.00 88.33	GS7
ATOM	39918	CE2	PHE	G	26	244.521	140.509	-27.756	1.00 88.33	GS7
ATOM	39919	CZ	PHE	G	26	244.159	139.350	-28.421	1.00 88.33	GS7
ATOM	39920	C	PHE	G	26	241.011	141.871	-25.178	1.00 87.81	GS7
ATOM	39921	O	PHE	G	26	241.380	140.767	-24.777	1.00 87.81	GS7
ATOM	39922	N	ILE	G	27	241.252	142.994	-24.508	1.00 86.34	GS7
ATOM	39923	CA	ILE	G	27	241.980	142.954	-23.247	1.00 86.34	GS7
ATOM	39924	CB	ILE	G	27	242.223	144.368	-22.684	1.00 78.57	GS7
ATOM	39925	CG2	ILE	G	27	242.965	144.281	-21.349	1.00 78.57	GS7
ATOM	39926	CG1	ILE	G	27	243.045	145.180	-23.691	1.00 78.57	GS7
ATOM	39927	CD1	ILE	G	27	243.261	146.638	-23.318	1.00 78.57	GS7
ATOM	39928	C	ILE	G	27	241.193	142.135	-22.232	1.00 86.34	GS7
ATOM	39929	O	ILE	G	27	241.745	141.254	-21.558	1.00 86.34	GS7
ATOM	39930	N	ASN	G	28	239.898	142.416	-22.135	1.00 91.97	GS7
ATOM	39931	CA	ASN	G	28	239.046	141.696	-21.200	1.00 91.97	GS7
ATOM	39932	CB	ASN	G	28	237.604	142.195	-21.312	1.00 88.82	GS7
ATOM	39933	CG	ASN	G	28	237.469	143.654	-20.922	1.00 88.82	GS7
ATOM	39934	OD1	ASN	G	28	237.891	144.058	-19.845	1.00 88.82	GS7
ATOM	39935	ND2	ASN	G	28	236.880	144.451	-21.798	1.00 88.82	GS7
ATOM	39936	C	ASN	G	28	239.114	140.188	-21.433	1.00 91.97	GS7
ATOM	39937	O	ASN	G	28	239.259	139.412	-20.480	1.00 91.97	GS7
ATOM	39938	N	LYS	G	29	239.024	139.776	-22.697	1.00 67.55	GS7
ATOM	39939	CA	LYS	G	29	239.090	138.358	-23.036	1.00 67.55	GS7
ATOM	39940	CB	LYS	G	29	238.900	138.161	-24.536	1.00 91.10	GS7
ATOM	39941	CG	LYS	G	29	237.453	138.055	-24.963	1.00 91.10	GS7
ATOM	39942	CD	LYS	G	29	236.774	136.857	-24.321	1.00 91.10	GS7
ATOM	39943	CE	LYS	G	29	235.353	136.690	-24.857	1.00 91.10	GS7
ATOM	39944	NZ	LYS	G	29	234.533	135.687	-24.087	1.00 91.10	GS7
ATOM	39945	C	LYS	G	29	240.410	137.724	-22.602	1.00 67.55	GS7
ATOM	39946	O	LYS	G	29	240.475	136.523	-22.345	1.00 67.55	GS7
ATOM	39947	N	ILE	G	30	241.461	138.534	-22.520	1.00 59.17	GS7
ATOM	39948	CA	ILE	G	30	242.762	138.033	-22.109	1.00 59.17	GS7
ATOM	39949	CB	ILE	G	30	243.900	139.029	-22.461	1.00 66.10	GS7

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ATOM	39950	CG2	ILE	G	30	245.237	138.504	-21.928	1.00	66.10	GS7
ATOM	39951	CG1	ILE	G	30	243.962	139.249	-23.980	1.00	66.10	GS7
ATOM	39952	CD1	ILE	G	30	244.989	140.280	-24.427	1.00	66.10	GS7
ATOM	39953	C	ILE	G	30	242.720	137.880	-20.607	1.00	59.17	GS7
ATOM	39954	O	ILE	G	30	243.301	136.958	-20.033	1.00	59.17	GS7
ATOM	39955	N	MET	G	31	242.008	138.801	-19.978	1.00	74.78	GS7
ATOM	39956	CA	MET	G	31	241.891	138.822	-18.535	1.00	74.78	GS7
ATOM	39957	CB	MET	G	31	241.146	140.072	-18.111	1.00	96.21	GS7
ATOM	39958	CG	MET	G	31	240.726	140.059	-16.665	1.00	96.21	GS7
ATOM	39959	SD	MET	G	31	239.804	141.532	-16.351	1.00	96.21	GS7
ATOM	39960	CE	MET	G	31	238.244	141.136	-17.224	1.00	96.21	GS7
ATOM	39961	C	MET	G	31	241.202	137.625	-17.922	1.00	74.78	GS7
ATOM	39962	O	MET	G	31	240.237	137.117	-18.476	1.00	74.78	GS7
ATOM	39963	N	ARG	G	32	241.702	137.185	-16.770	1.00	84.10	GS7
ATOM	39964	CA	ARG	G	32	241.102	136.072	-16.041	1.00	84.10	GS7
ATOM	39965	CB	ARG	G	32	241.834	134.757	-16.335	1.00	108.00	GS7
ATOM	39966	CG	ARG	G	32	243.321	134.766	-16.080	1.00	108.00	GS7
ATOM	39967	CD	ARG	G	32	243.984	133.513	-16.666	1.00	108.00	GS7
ATOM	39968	NE	ARG	G	32	243.862	133.434	-18.128	1.00	108.00	GS7
ATOM	39969	CZ	ARG	G	32	244.522	132.570	-18.905	1.00	108.00	GS7
ATOM	39970	NH1	ARG	G	32	245.365	131.692	-18.372	1.00	108.00	GS7
ATOM	39971	NH2	ARG	G	32	244.339	132.584	-20.222	1.00	108.00	GS7
ATOM	39972	C	ARG	G	32	241.168	136.419	-14.562	1.00	84.10	GS7
ATOM	39973	O	ARG	G	32	242.184	136.926	-14.096	1.00	84.10	GS7
ATOM	39974	N	ASP	G	33	240.080	136.160	-13.838	1.00	75.94	GS7
ATOM	39975	CA	ASP	G	33	239.969	136.471	-12.407	1.00	75.94	GS7
ATOM	39976	CB	ASP	G	33	241.066	135.805	-11.584	1.00	83.12	GS7
ATOM	39977	CG	ASP	G	33	241.245	134.356	-11.923	1.00	83.12	GS7
ATOM	39978	OD1	ASP	G	33	240.259	133.707	-12.336	1.00	83.12	GS7
ATOM	39979	OD2	ASP	G	33	242.379	133.860	-11.764	1.00	83.12	GS7
ATOM	39980	C	ASP	G	33	240.047	137.971	-12.178	1.00	75.94	GS7
ATOM	39981	O	ASP	G	33	240.623	138.434	-11.189	1.00	75.94	GS7
ATOM	39982	N	GLY	G	34	239.478	138.728	-13.108	1.00	99.23	GS7
ATOM	39983	CA	GLY	G	34	239.480	140.170	-12.979	1.00	99.23	GS7
ATOM	39984	C	GLY	G	34	240.848	140.800	-12.817	1.00	99.23	GS7
ATOM	39985	O	GLY	G	34	240.956	141.908	-12.305	1.00	99.23	GS7
ATOM	39986	N	LYS	G	35	241.898	140.103	-13.234	1.00	80.68	GS7
ATOM	39987	CA	LYS	G	35	243.237	140.666	-13.136	1.00	80.68	GS7
ATOM	39988	CB	LYS	G	35	244.280	139.561	-13.032	1.00	74.25	GS7
ATOM	39989	CG	LYS	G	35	244.138	138.738	-11.779	1.00	74.25	GS7
ATOM	39990	CD	LYS	G	35	245.343	137.843	-11.573	1.00	74.25	GS7
ATOM	39991	CE	LYS	G	35	246.609	138.656	-11.358	1.00	74.25	GS7
ATOM	39992	NZ	LYS	G	35	247.779	137.753	-11.194	1.00	74.25	GS7
ATOM	39993	C	LYS	G	35	243.472	141.493	-14.389	1.00	80.68	GS7
ATOM	39994	O	LYS	G	35	244.387	141.223	-15.173	1.00	80.68	GS7
ATOM	39995	N	LYS	G	36	242.622	142.504	-14.560	1.00	88.74	GS7
ATOM	39996	CA	LYS	G	36	242.664	143.400	-15.710	1.00	88.74	GS7
ATOM	39997	CB	LYS	G	36	241.479	144.363	-15.654	1.00	87.23	GS7
ATOM	39998	CG	LYS	G	36	241.218	145.135	-16.928	1.00	87.23	GS7
ATOM	39999	CD	LYS	G	36	239.899	145.882	-16.785	1.00	87.23	GS7
ATOM	40000	CE	LYS	G	36	239.558	146.719	-18.011	1.00	87.23	GS7
ATOM	40001	NZ	LYS	G	36	239.415	145.902	-19.259	1.00	87.23	GS7
ATOM	40002	C	LYS	G	36	243.959	144.190	-15.850	1.00	88.74	GS7
ATOM	40003	O	LYS	G	36	244.205	144.780	-16.899	1.00	88.74	GS7
ATOM	40004	N	ASN	G	37	244.783	144.212	-14.805	1.00	91.64	GS7
ATOM	40005	CA	ASN	G	37	246.043	144.943	-14.884	1.00	91.64	GS7
ATOM	40006	CB	ASN	G	37	246.657	145.147	-13.499	1.00	88.81	GS7
ATOM	40007	CG	ASN	G	37	247.722	146.241	-13.489	1.00	88.81	GS7
ATOM	40008	OD1	ASN	G	37	248.710	146.145	-12.764	1.00	88.81	GS7
ATOM	40009	ND2	ASN	G	37	247.512	147.295	-14.286	1.00	88.81	GS7
ATOM	40010	C	ASN	G	37	246.969	144.089	-15.722	1.00	91.64	GS7
ATOM	40011	O	ASN	G	37	247.434	144.508	-16.785	1.00	91.64	GS7
ATOM	40012	N	LEU	G	38	247.225	142.886	-15.218	1.00	71.73	GS7
ATOM	40013	CA	LEU	G	38	248.066	141.916	-15.901	1.00	71.73	GS7
ATOM	40014	CB	LEU	G	38	248.016	140.580	-15.145	1.00	75.94	GS7
ATOM	40015	CG	LEU	G	38	248.385	139.270	-15.857	1.00	75.94	GS7
ATOM	40016	CD1	LEU	G	38	249.665	139.461	-16.655	1.00	75.94	GS7
ATOM	40017	CD2	LEU	G	38	248.545	138.134	-14.834	1.00	75.94	GS7
ATOM	40018	C	LEU	G	38	247.564	141.740	-17.339	1.00	71.73	GS7
ATOM	40019	O	LEU	G	38	248.346	141.505	-18.265	1.00	71.73	GS7
ATOM	40020	N	ALA	G	39	246.255	141.873	-17.522	1.00	93.82	GS7
ATOM	40021	CA	ALA	G	39	245.652	141.727	-18.839	1.00	93.82	GS7
ATOM	40022	CB	ALA	G	39	244.139	141.765	-18.726	1.00	151.86	GS7
ATOM	40023	C	ALA	G	39	246.123	142.805	-19.799	1.00	93.82	GS7
ATOM	40024	O	ALA	G	39	246.585	142.503	-20.893	1.00	93.82	GS7
ATOM	40025	N	ALA	G	40	246.003	144.063	-19.391	1.00	100.53	GS7
ATOM	40026	CA	ALA	G	40	246.413	145.179	-20.233	1.00	100.53	GS7

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ATOM	40027	CB	ALA	G	40	246.214	146.469	-19.507	1.00	66.67	GS7
ATOM	40028	C	ALA	G	40	247.865	145.048	-20.644	1.00	100.53	GS7
ATOM	40029	O	ALA	G	40	248.200	145.205	-21.819	1.00	100.53	GS7
ATOM	40030	N	ARG	G	41	248.728	144.779	-19.670	1.00	98.96	GS7
ATOM	40031	CA	ARG	G	41	250.144	144.616	-19.952	1.00	98.96	GS7
ATOM	40032	CB	ARG	G	41	250.861	144.019	-18.761	1.00	142.70	GS7
ATOM	40033	CG	ARG	G	41	250.912	144.919	-17.593	1.00	142.70	GS7
ATOM	40034	CD	ARG	G	41	251.621	144.227	-16.482	1.00	142.70	GS7
ATOM	40035	NE	ARG	G	41	251.931	145.168	-15.423	1.00	142.70	GS7
ATOM	40036	CZ	ARG	G	41	252.543	144.837	-14.296	1.00	142.70	GS7
ATOM	40037	NH1	ARG	G	41	252.905	143.576	-14.090	1.00	142.70	GS7
ATOM	40038	NH2	ARG	G	41	252.792	145.770	-13.383	1.00	142.70	GS7
ATOM	40039	C	ARG	G	41	250.288	143.668	-21.119	1.00	98.96	GS7
ATOM	40040	O	ARG	G	41	250.591	144.084	-22.236	1.00	98.96	GS7
ATOM	40041	N	ILE	G	42	250.065	142.387	-20.845	1.00	82.53	GS7
ATOM	40042	CA	ILE	G	42	250.164	141.363	-21.867	1.00	82.53	GS7
ATOM	40043	CB	ILE	G	42	249.200	140.187	-21.588	1.00	76.43	GS7
ATOM	40044	CG2	ILE	G	42	249.279	139.169	-22.726	1.00	76.43	GS7
ATOM	40045	CG1	ILE	G	42	249.559	139.523	-20.253	1.00	76.43	GS7
ATOM	40046	CD1	ILE	G	42	248.678	138.339	-19.884	1.00	76.43	GS7
ATOM	40047	C	ILE	G	42	249.840	141.954	-23.231	1.00	82.53	GS7
ATOM	40048	O	ILE	G	42	250.674	141.932	-24.129	1.00	82.53	GS7
ATOM	40049	N	PHE	G	43	248.643	142.505	-23.385	1.00	78.89	GS7
ATOM	40050	CA	PHE	G	43	248.271	143.082	-24.666	1.00	78.89	GS7
ATOM	40051	CB	PHE	G	43	246.880	143.681	-24.635	1.00	74.05	GS7
ATOM	40052	CG	PHE	G	43	246.501	144.340	-25.925	1.00	74.05	GS7
ATOM	40053	CD1	PHE	G	43	246.349	143.580	-27.084	1.00	74.05	GS7
ATOM	40054	CD2	PHE	G	43	246.314	145.711	-25.994	1.00	74.05	GS7
ATOM	40055	CE1	PHE	G	43	246.012	144.172	-28.293	1.00	74.05	GS7
ATOM	40056	CE2	PHE	G	43	245.975	146.313	-27.205	1.00	74.05	GS7
ATOM	40057	CZ	PHE	G	43	245.824	145.537	-28.357	1.00	74.05	GS7
ATOM	40058	C	PHE	G	43	249.206	144.178	-25.130	1.00	78.89	GS7
ATOM	40059	O	PHE	G	43	249.658	144.176	-26.275	1.00	78.89	GS7
ATOM	40060	N	TYR	G	44	249.463	145.136	-24.250	1.00	82.42	GS7
ATOM	40061	CA	TYR	G	44	250.340	146.245	-24.581	1.00	82.42	GS7
ATOM	40062	CB	TYR	G	44	250.297	147.266	-23.456	1.00	80.78	GS7
ATOM	40063	CG	TYR	G	44	248.984	148.014	-23.423	1.00	80.78	GS7
ATOM	40064	CD1	TYR	G	44	248.354	148.302	-22.210	1.00	80.78	GS7
ATOM	40065	CE1	TYR	G	44	247.151	148.998	-22.173	1.00	80.78	GS7
ATOM	40066	CD2	TYR	G	44	248.374	148.442	-24.608	1.00	80.78	GS7
ATOM	40067	CE2	TYR	G	44	247.173	149.138	-24.584	1.00	80.78	GS7
ATOM	40068	CZ	TYR	G	44	246.567	149.410	-23.363	1.00	80.78	GS7
ATOM	40069	OH	TYR	G	44	245.371	150.085	-23.319	1.00	80.78	GS7
ATOM	40070	C	TYR	G	44	251.771	145.807	-24.883	1.00	82.42	GS7
ATOM	40071	O	TYR	G	44	252.405	146.353	-25.785	1.00	82.42	GS7
ATOM	40072	N	ASP	G	45	252.277	144.826	-24.138	1.00	92.12	GS7
ATOM	40073	CA	ASP	G	45	253.618	144.316	-24.395	1.00	92.12	GS7
ATOM	40074	CB	ASP	G	45	254.000	143.216	-23.407	1.00	109.51	GS7
ATOM	40075	CG	ASP	G	45	254.384	143.759	-22.054	1.00	109.51	GS7
ATOM	40076	OD1	ASP	G	45	255.087	144.789	-22.001	1.00	109.51	GS7
ATOM	40077	OD2	ASP	G	45	254.000	143.148	-21.039	1.00	109.51	GS7
ATOM	40078	C	ASP	G	45	253.600	143.734	-25.800	1.00	92.12	GS7
ATOM	40079	O	ASP	G	45	254.432	144.070	-26.647	1.00	92.12	GS7
ATOM	40080	N	ALA	G	46	252.640	142.853	-26.043	1.00	130.21	GS7
ATOM	40081	CA	ALA	G	46	252.507	142.241	-27.350	1.00	130.21	GS7
ATOM	40082	CB	ALA	G	46	251.263	141.370	-27.397	1.00	162.42	GS7
ATOM	40083	C	ALA	G	46	252.417	143.350	-28.392	1.00	130.21	GS7
ATOM	40084	O	ALA	G	46	252.946	143.218	-29.492	1.00	130.21	GS7
ATOM	40085	N	CYS	G	47	251.760	144.450	-28.043	1.00	90.37	GS7
ATOM	40086	CA	CYS	G	47	251.624	145.555	-28.981	1.00	90.37	GS7
ATOM	40087	CB	CYS	G	47	250.729	146.650	-28.410	1.00	114.90	GS7
ATOM	40088	SG	CYS	G	47	248.977	146.290	-28.588	1.00	114.90	GS7
ATOM	40089	C	CYS	G	47	252.964	146.147	-29.357	1.00	90.37	GS7
ATOM	40090	O	CYS	G	47	253.172	146.529	-30.510	1.00	90.37	GS7
ATOM	40091	N	LYS	G	48	253.872	146.222	-28.387	1.00	110.52	GS7
ATOM	40092	CA	LYS	G	48	255.196	146.771	-28.638	1.00	110.52	GS7
ATOM	40093	CB	LYS	G	48	255.849	147.216	-27.329	1.00	105.00	GS7
ATOM	40094	CG	LYS	G	48	255.014	148.274	-26.614	1.00	105.00	GS7
ATOM	40095	CD	LYS	G	48	255.856	149.360	-25.957	1.00	105.00	GS7
ATOM	40096	CE	LYS	G	48	254.974	150.510	-25.465	1.00	105.00	GS7
ATOM	40097	NZ	LYS	G	48	254.174	151.129	-26.566	1.00	105.00	GS7
ATOM	40098	C	LYS	G	48	256.073	145.770	-29.371	1.00	110.52	GS7
ATOM	40099	O	LYS	G	48	257.072	146.148	-29.978	1.00	110.52	GS7
ATOM	40100	N	ILE	G	49	255.694	144.495	-29.325	1.00	102.59	GS7
ATOM	40101	CA	ILE	G	49	256.444	143.455	-30.028	1.00	102.59	GS7
ATOM	40102	CB	ILE	G	49	256.258	142.068	-29.383	1.00	69.63	GS7
ATOM	40103	CG2	ILE	G	49	257.011	141.017	-30.194	1.00	69.63	GS7

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ATOM	40104	CG1	ILE	G	49	256.747	142.095	-27.931	1.00	69.63	GS7
ATOM	40105	CD1	ILE	G	49	256.698	140.732	-27.228	1.00	69.63	GS7
ATOM	40106	C	ILE	G	49	255.959	143.390	-31.475	1.00102.59		GS7
ATOM	40107	O	ILE	G	49	256.699	142.989	-32.369	1.00102.59		GS7
ATOM	40108	N	ILE	G	50	254.705	143.773	-31.697	1.00110.71		GS7
ATOM	40109	CA	ILE	G	50	254.157	143.795	-33.046	1.00110.71		GS7
ATOM	40110	CB	ILE	G	50	252.642	144.058	-33.055	1.00112.13		GS7
ATOM	40111	CG2	ILE	G	50	252.093	143.887	-34.462	1.00112.13		GS7
ATOM	40112	CG1	ILE	G	50	251.932	143.083	-32.128	1.00112.13		GS7
ATOM	40113	CD1	ILE	G	50	250.468	143.408	-31.940	1.00112.13		GS7
ATOM	40114	C	ILE	G	50	254.837	144.988	-33.710	1.00110.71		GS7
ATOM	40115	O	ILE	G	50	254.766	145.167	-34.925	1.00110.71		GS7
ATOM	40116	N	GLN	G	51	255.482	145.811	-32.887	1.00164.47		GS7
ATOM	40117	CA	GLN	G	51	256.194	146.994	-33.359	1.00164.47		GS7
ATOM	40118	CB	GLN	G	51	256.346	148.013	-32.229	1.00157.79		GS7
ATOM	40119	CG	GLN	G	51	255.238	149.039	-32.191	1.00157.79		GS7
ATOM	40120	CD	GLN	G	51	255.283	149.969	-33.387	1.00157.79		GS7
ATOM	40121	OE1	GLN	G	51	255.421	149.527	-34.531	1.00157.79		GS7
ATOM	40122	NE2	GLN	G	51	255.161	151.266	-33.129	1.00157.79		GS7
ATOM	40123	C	GLN	G	51	257.565	146.618	-33.883	1.00164.47		GS7
ATOM	40124	O	GLN	G	51	257.953	147.024	-34.978	1.00164.47		GS7
ATOM	40125	N	GLU	G	52	258.299	145.846	-33.092	1.00118.08		GS7
ATOM	40126	CA	GLU	G	52	259.622	145.416	-33.494	1.00118.08		GS7
ATOM	40127	CB	GLU	G	52	260.354	144.763	-32.325	1.00173.76		GS7
ATOM	40128	CG	GLU	G	52	260.800	145.763	-31.283	1.00173.76		GS7
ATOM	40129	CD	GLU	G	52	261.789	145.179	-30.301	1.00173.76		GS7
ATOM	40130	OE1	GLU	G	52	262.824	144.641	-30.748	1.00173.76		GS7
ATOM	40131	OE2	GLU	G	52	261.537	145.263	-29.081	1.00173.76		GS7
ATOM	40132	C	GLU	G	52	259.554	144.455	-34.668	1.00118.08		GS7
ATOM	40133	O	GLU	G	52	259.842	144.837	-35.798	1.00118.08		GS7
ATOM	40134	N	LYS	G	53	259.144	143.220	-34.412	1.00115.36		GS7
ATOM	40135	CA	LYS	G	53	259.074	142.204	-35.459	1.00115.36		GS7
ATOM	40136	CB	LYS	G	53	258.632	140.884	-34.826	1.00116.99		GS7
ATOM	40137	CG	LYS	G	53	259.561	140.490	-33.675	1.00116.99		GS7
ATOM	40138	CD	LYS	G	53	259.124	139.225	-32.953	1.00116.99		GS7
ATOM	40139	CE	LYS	G	53	260.013	138.957	-31.738	1.00116.99		GS7
ATOM	40140	NZ	LYS	G	53	259.624	137.715	-31.011	1.00116.99		GS7
ATOM	40141	C	LYS	G	53	258.256	142.526	-36.728	1.00115.36		GS7
ATOM	40142	O	LYS	G	53	258.120	141.680	-37.612	1.00115.36		GS7
ATOM	40143	N	THR	G	54	257.730	143.748	-36.810	1.00143.70		GS7
ATOM	40144	CA	THR	G	54	256.976	144.247	-37.971	1.00143.70		GS7
ATOM	40145	CB	THR	G	54	255.545	143.648	-38.098	1.00159.38		GS7
ATOM	40146	OG1	THR	G	54	254.928	143.576	-36.810	1.00159.38		GS7
ATOM	40147	CG2	THR	G	54	255.589	142.272	-38.733	1.00159.38		GS7
ATOM	40148	C	THR	G	54	256.855	145.753	-37.787	1.00143.70		GS7
ATOM	40149	O	THR	G	54	256.281	146.219	-36.805	1.00143.70		GS7
ATOM	40150	N	GLY	G	55	257.397	146.517	-38.727	1.00107.67		GS7
ATOM	40151	CA	GLY	G	55	257.358	147.963	-38.594	1.00107.67		GS7
ATOM	40152	C	GLY	G	55	256.000	148.641	-38.648	1.00107.67		GS7
ATOM	40153	O	GLY	G	55	255.909	149.791	-39.085	1.00107.67		GS7
ATOM	40154	N	GLN	G	56	254.946	147.967	-38.193	1.00123.59		GS7
ATOM	40155	CA	GLN	G	56	253.611	148.558	-38.243	1.00123.59		GS7
ATOM	40156	CB	GLN	G	56	252.645	147.593	-38.912	1.00124.42		GS7
ATOM	40157	CG	GLN	G	56	253.269	146.766	-39.994	1.00124.42		GS7
ATOM	40158	CD	GLN	G	56	252.262	145.864	-40.655	1.00124.42		GS7
ATOM	40159	OE1	GLN	G	56	251.387	146.329	-41.384	1.00124.42		GS7
ATOM	40160	NE2	GLN	G	56	252.368	144.563	-40.395	1.00124.42		GS7
ATOM	40161	C	GLN	G	56	253.041	148.945	-36.887	1.00123.59		GS7
ATOM	40162	O	GLN	G	56	253.372	148.340	-35.865	1.00123.59		GS7
ATOM	40163	N	GLU	G	57	252.177	149.959	-36.893	1.00127.07		GS7
ATOM	40164	CA	GLU	G	57	251.526	150.426	-35.675	1.00127.07		GS7
ATOM	40165	CB	GLU	G	57	250.569	151.566	-35.989	1.00164.81		GS7
ATOM	40166	CG	GLU	G	57	251.136	152.590	-36.935	1.00164.81		GS7
ATOM	40167	CD	GLU	G	57	250.063	153.224	-37.788	1.00164.81		GS7
ATOM	40168	OE1	GLU	G	57	249.371	152.480	-38.516	1.00164.81		GS7
ATOM	40169	OE2	GLU	G	57	249.909	154.462	-37.731	1.00164.81		GS7
ATOM	40170	C	GLU	G	57	250.726	149.234	-35.199	1.00127.07		GS7
ATOM	40171	O	GLU	G	57	249.898	148.706	-35.938	1.00127.07		GS7
ATOM	40172	N	PRO	G	58	250.947	148.797	-33.957	1.00109.51		GS7
ATOM	40173	CD	PRO	G	58	251.558	149.519	-32.829	1.00	87.25	GS7
ATOM	40174	CA	PRO	G	58	250.184	147.640	-33.486	1.00109.51		GS7
ATOM	40175	CB	PRO	G	58	250.569	147.556	-32.010	1.00	87.25	GS7
ATOM	40176	CG	PRO	G	58	250.768	148.994	-31.651	1.00	87.25	GS7
ATOM	40177	C	PRO	G	58	248.676	147.794	-33.702	1.00109.51		GS7
ATOM	40178	O	PRO	G	58	248.029	146.918	-34.275	1.00109.51		GS7
ATOM	40179	N	LEU	G	59	248.133	148.928	-33.271	1.00112.10		GS7
ATOM	40180	CA	LEU	G	59	246.704	149.193	-33.380	1.00112.10		GS7

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ATOM	40181	CB	LEU	G	59	246.424	150.667	-33.107	1.00102.87	GS7
ATOM	40182	CG	LEU	G	59	244.939	151.014	-33.012	1.00102.87	GS7
ATOM	40183	CD1	LEU	G	59	244.246	150.064	-32.042	1.00102.87	GS7
ATOM	40184	CD2	LEU	G	59	244.787	152.461	-32.565	1.00102.87	GS7
ATOM	40185	C	LEU	G	59	246.026	148.790	-34.686	1.00112.10	GS7
ATOM	40186	O	LEU	G	59	244.857	148.398	-34.674	1.00112.10	GS7
ATOM	40187	N	LYS	G	60	246.736	148.896	-35.809	1.00115.65	GS7
ATOM	40188	CA	LYS	G	60	246.150	148.521	-37.096	1.00115.65	GS7
ATOM	40189	CB	LYS	G	60	246.769	149.315	-38.250	1.00148.78	GS7
ATOM	40190	CG	LYS	G	60	246.180	148.944	-39.609	1.00148.78	GS7
ATOM	40191	CD	LYS	G	60	246.835	149.697	-40.762	1.00148.78	GS7
ATOM	40192	CE	LYS	G	60	246.248	149.263	-42.109	1.00148.78	GS7
ATOM	40193	NZ	LYS	G	60	246.835	149.993	-43.274	1.00148.78	GS7
ATOM	40194	C	LYS	G	60	246.344	147.034	-37.348	1.00115.65	GS7
ATOM	40195	O	LYS	G	60	245.507	146.392	-37.979	1.00115.65	GS7
ATOM	40196	N	VAL	G	61	247.454	146.489	-36.859	1.00131.26	GS7
ATOM	40197	CA	VAL	G	61	247.727	145.068	-37.030	1.00131.26	GS7
ATOM	40198	CB	VAL	G	61	249.143	144.695	-36.527	1.00 84.03	GS7
ATOM	40199	CG1	VAL	G	61	249.282	143.183	-36.438	1.00 84.03	GS7
ATOM	40200	CG2	VAL	G	61	250.195	145.246	-37.471	1.00 84.03	GS7
ATOM	40201	C	VAL	G	61	246.688	144.273	-36.244	1.00131.26	GS7
ATOM	40202	O	VAL	G	61	246.205	143.238	-36.709	1.00131.26	GS7
ATOM	40203	N	PHE	G	62	246.350	144.769	-35.054	1.00127.11	GS7
ATOM	40204	CA	PHE	G	62	245.359	144.130	-34.184	1.00127.11	GS7
ATOM	40205	CB	PHE	G	62	245.198	144.934	-32.879	1.00 90.02	GS7
ATOM	40206	CG	PHE	G	62	243.945	144.605	-32.110	1.00 90.02	GS7
ATOM	40207	CD1	PHE	G	62	243.797	143.373	-31.479	1.00 90.02	GS7
ATOM	40208	CD2	PHE	G	62	242.884	145.507	-32.069	1.00 90.02	GS7
ATOM	40209	CE1	PHE	G	62	242.602	143.038	-30.826	1.00 90.02	GS7
ATOM	40210	CE2	PHE	G	62	241.686	145.182	-31.419	1.00 90.02	GS7
ATOM	40211	CZ	PHE	G	62	241.546	143.946	-30.798	1.00 90.02	GS7
ATOM	40212	C	PHE	G	62	244.013	144.037	-34.900	1.00127.11	GS7
ATOM	40213	O	PHE	G	62	243.376	142.983	-34.914	1.00127.11	GS7
ATOM	40214	N	LYS	G	63	243.596	145.145	-35.500	1.00 92.85	GS7
ATOM	40215	CA	LYS	G	63	242.328	145.205	-36.208	1.00 92.85	GS7
ATOM	40216	CB	LYS	G	63	241.979	146.656	-36.503	1.00103.86	GS7
ATOM	40217	CG	LYS	G	63	241.958	147.502	-35.258	1.00103.86	GS7
ATOM	40218	CD	LYS	G	63	241.318	148.834	-35.527	1.00103.86	GS7
ATOM	40219	CE	LYS	G	63	241.163	149.621	-34.249	1.00103.86	GS7
ATOM	40220	NZ	LYS	G	63	240.381	150.851	-34.503	1.00103.86	GS7
ATOM	40221	C	LYS	G	63	242.311	144.390	-37.494	1.00 92.85	GS7
ATOM	40222	O	LYS	G	63	241.290	143.793	-37.841	1.00 92.85	GS7
ATOM	40223	N	GLN	G	64	243.432	144.366	-38.205	1.00108.24	GS7
ATOM	40224	CA	GLN	G	64	243.507	143.597	-39.440	1.00108.24	GS7
ATOM	40225	CB	GLN	G	64	244.889	143.746	-40.075	1.00151.92	GS7
ATOM	40226	CG	GLN	G	64	244.949	143.310	-41.529	1.00151.92	GS7
ATOM	40227	CD	GLN	G	64	244.008	144.111	-42.404	1.00151.92	GS7
ATOM	40228	OE1	GLN	G	64	244.049	145.342	-42.412	1.00151.92	GS7
ATOM	40229	NE2	GLN	G	64	243.153	143.416	-43.148	1.00151.92	GS7
ATOM	40230	C	GLN	G	64	243.254	142.137	-39.068	1.00108.24	GS7
ATOM	40231	O	GLN	G	64	242.656	141.373	-39.828	1.00108.24	GS7
ATOM	40232	N	ALA	G	65	243.715	141.767	-37.880	1.00111.25	GS7
ATOM	40233	CA	ALA	G	65	243.540	140.420	-37.370	1.00111.25	GS7
ATOM	40234	CB	ALA	G	65	244.279	140.270	-36.042	1.00103.23	GS7
ATOM	40235	C	ALA	G	65	242.049	140.170	-37.177	1.00111.25	GS7
ATOM	40236	O	ALA	G	65	241.468	139.304	-37.832	1.00111.25	GS7
ATOM	40237	N	VAL	G	66	241.437	140.945	-36.281	1.00102.69	GS7
ATOM	40238	CA	VAL	G	66	240.012	140.821	-35.984	1.00102.69	GS7
ATOM	40239	CB	VAL	G	66	239.456	142.086	-35.278	1.00 68.43	GS7
ATOM	40240	CG1	VAL	G	66	237.951	142.082	-35.318	1.00 68.43	GS7
ATOM	40241	CG2	VAL	G	66	239.912	142.124	-33.824	1.00 68.43	GS7
ATOM	40242	C	VAL	G	66	239.192	140.573	-37.237	1.00102.69	GS7
ATOM	40243	O	VAL	G	66	238.334	139.692	-37.255	1.00102.69	GS7
ATOM	40244	N	GLU	G	67	239.460	141.346	-38.284	1.00101.21	GS7
ATOM	40245	CA	GLU	G	67	238.732	141.196	-39.535	1.00101.21	GS7
ATOM	40246	CB	GLU	G	67	239.201	142.235	-40.553	1.00158.14	GS7
ATOM	40247	CG	GLU	G	67	238.673	141.969	-41.958	1.00158.14	GS7
ATOM	40248	CD	GLU	G	67	237.153	141.897	-42.014	1.00158.14	GS7
ATOM	40249	OE1	GLU	G	67	236.616	141.367	-43.013	1.00158.14	GS7
ATOM	40250	OE2	GLU	G	67	236.494	142.375	-41.064	1.00158.14	GS7
ATOM	40251	C	GLU	G	67	238.816	139.804	-40.177	1.00101.21	GS7
ATOM	40252	O	GLU	G	67	237.818	139.302	-40.707	1.00101.21	GS7
ATOM	40253	N	ASN	G	68	239.991	139.178	-40.138	1.00119.84	GS7
ATOM	40254	CA	ASN	G	68	240.156	137.862	-40.758	1.00119.84	GS7
ATOM	40255	CB	ASN	G	68	241.599	137.673	-41.238	1.00 91.36	GS7
ATOM	40256	CG	ASN	G	68	242.102	138.851	-42.051	1.00 91.36	GS7
ATOM	40257	OD1	ASN	G	68	241.338	139.504	-42.768	1.00 91.36	GS7

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ATOM	40258	ND2	ASN	G	68	243.398	139.121	-41.952	1.00	91.36	GS7
ATOM	40259	C	ASN	G	68	239.764	136.682	-39.873	1.00	119.84	GS7
ATOM	40260	O	ASN	G	68	239.862	135.528	-40.293	1.00	119.84	GS7
ATOM	40261	N	VAL	G	69	239.319	136.968	-38.654	1.00	86.29	GS7
ATOM	40262	CA	VAL	G	69	238.918	135.912	-37.732	1.00	86.29	GS7
ATOM	40263	CB	VAL	G	69	239.606	136.079	-36.357	1.00	83.67	GS7
ATOM	40264	CG1	VAL	G	69	239.442	134.820	-35.527	1.00	83.67	GS7
ATOM	40265	CG2	VAL	G	69	241.076	136.390	-36.547	1.00	83.67	GS7
ATOM	40266	C	VAL	G	69	237.407	135.931	-37.537	1.00	86.29	GS7
ATOM	40267	O	VAL	G	69	236.865	135.154	-36.758	1.00	86.29	GS7
ATOM	40268	N	LYS	G	70	236.732	136.824	-38.253	1.00	100.26	GS7
ATOM	40269	CA	LYS	G	70	235.282	136.941	-38.156	1.00	100.26	GS7
ATOM	40270	CB	LYS	G	70	234.822	138.343	-38.542	1.00	73.16	GS7
ATOM	40271	CG	LYS	G	70	234.994	139.400	-37.470	1.00	73.16	GS7
ATOM	40272	CD	LYS	G	70	234.488	140.726	-37.993	1.00	73.16	GS7
ATOM	40273	CE	LYS	G	70	234.562	141.813	-36.955	1.00	73.16	GS7
ATOM	40274	NZ	LYS	G	70	234.320	143.132	-37.607	1.00	73.16	GS7
ATOM	40275	C	LYS	G	70	234.567	135.947	-39.049	1.00	100.26	GS7
ATOM	40276	O	LYS	G	70	234.638	136.036	-40.273	1.00	100.26	GS7
ATOM	40277	N	PRO	G	71	233.870	134.980	-38.446	1.00	89.36	GS7
ATOM	40278	CD	PRO	G	71	233.708	134.752	-36.998	1.00	79.29	GS7
ATOM	40279	CA	PRO	G	71	233.138	133.976	-39.216	1.00	89.36	GS7
ATOM	40280	CB	PRO	G	71	232.863	132.897	-38.179	1.00	79.29	GS7
ATOM	40281	CG	PRO	G	71	232.602	133.715	-36.950	1.00	79.29	GS7
ATOM	40282	C	PRO	G	71	231.868	134.655	-39.702	1.00	89.36	GS7
ATOM	40283	O	PRO	G	71	231.189	135.315	-38.923	1.00	89.36	GS7
ATOM	40284	N	ARG	G	72	231.552	134.516	-40.981	1.00	87.17	GS7
ATOM	40285	CA	ARG	G	72	230.358	135.153	-41.510	1.00	87.17	GS7
ATOM	40286	CB	ARG	G	72	230.671	135.833	-42.846	1.00	146.64	GS7
ATOM	40287	CG	ARG	G	72	231.660	135.074	-43.693	1.00	146.64	GS7
ATOM	40288	CD	ARG	G	72	232.087	135.870	-44.910	1.00	146.64	GS7
ATOM	40289	NE	ARG	G	72	233.297	135.311	-45.508	1.00	146.64	GS7
ATOM	40290	CZ	ARG	G	72	234.494	135.318	-44.924	1.00	146.64	GS7
ATOM	40291	NH1	ARG	G	72	234.651	135.860	-43.721	1.00	146.64	GS7
ATOM	40292	NH2	ARG	G	72	235.536	134.773	-45.537	1.00	146.64	GS7
ATOM	40293	C	ARG	G	72	229.193	134.186	-41.657	1.00	87.17	GS7
ATOM	40294	O	ARG	G	72	228.088	134.591	-42.009	1.00	87.17	GS7
ATOM	40295	N	MET	G	73	229.430	132.912	-41.368	1.00	84.68	GS7
ATOM	40296	CA	MET	G	73	228.373	131.909	-41.466	1.00	84.68	GS7
ATOM	40297	CB	MET	G	73	228.313	131.323	-42.882	1.00	105.82	GS7
ATOM	40298	CG	MET	G	73	227.812	132.276	-43.958	1.00	105.82	GS7
ATOM	40299	SD	MET	G	73	226.018	132.284	-44.117	1.00	105.82	GS7
ATOM	40300	CE	MET	G	73	225.827	131.869	-45.861	1.00	105.82	GS7
ATOM	40301	C	MET	G	73	228.637	130.786	-40.476	1.00	84.68	GS7
ATOM	40302	O	MET	G	73	229.635	130.078	-40.589	1.00	84.68	GS7
ATOM	40303	N	GLU	G	74	227.759	130.615	-39.497	1.00	89.62	GS7
ATOM	40304	CA	GLU	G	74	227.971	129.542	-38.542	1.00	89.62	GS7
ATOM	40305	CB	GLU	G	74	228.030	130.093	-37.116	1.00	104.93	GS7
ATOM	40306	CG	GLU	G	74	226.737	130.661	-36.580	1.00	104.93	GS7
ATOM	40307	CD	GLU	G	74	226.941	131.378	-35.254	1.00	104.93	GS7
ATOM	40308	OE1	GLU	G	74	227.869	130.995	-34.505	1.00	104.93	GS7
ATOM	40309	OE2	GLU	G	74	226.167	132.318	-34.958	1.00	104.93	GS7
ATOM	40310	C	GLU	G	74	226.871	128.506	-38.689	1.00	89.62	GS7
ATOM	40311	O	GLU	G	74	225.922	128.701	-39.448	1.00	89.62	GS7
ATOM	40312	N	VAL	G	75	227.001	127.403	-37.963	1.00	94.21	GS7
ATOM	40313	CA	VAL	G	75	226.026	126.327	-38.043	1.00	94.21	GS7
ATOM	40314	CB	VAL	G	75	226.695	125.046	-38.603	1.00	85.92	GS7
ATOM	40315	CG1	VAL	G	75	225.651	124.001	-38.908	1.00	85.92	GS7
ATOM	40316	CG2	VAL	G	75	227.486	125.378	-39.847	1.00	85.92	GS7
ATOM	40317	C	VAL	G	75	225.367	126.001	-36.695	1.00	94.21	GS7
ATOM	40318	O	VAL	G	75	225.901	125.217	-35.906	1.00	94.21	GS7
ATOM	40319	N	ARG	G	76	224.204	126.599	-36.442	1.00	105.72	GS7
ATOM	40320	CA	ARG	G	76	223.458	126.373	-35.202	1.00	105.72	GS7
ATOM	40321	CB	ARG	G	76	222.642	127.620	-34.851	1.00	132.62	GS7
ATOM	40322	CG	ARG	G	76	223.196	128.914	-35.455	1.00	132.62	GS7
ATOM	40323	CD	ARG	G	76	222.301	130.125	-35.173	1.00	132.62	GS7
ATOM	40324	NE	ARG	G	76	222.519	130.698	-33.844	1.00	132.62	GS7
ATOM	40325	CZ	ARG	G	76	221.751	131.636	-33.291	1.00	132.62	GS7
ATOM	40326	NH1	ARG	G	76	220.700	132.117	-33.948	1.00	132.62	GS7
ATOM	40327	NH2	ARG	G	76	222.036	132.093	-32.078	1.00	132.62	GS7
ATOM	40328	C	ARG	G	76	222.519	125.190	-35.444	1.00	105.72	GS7
ATOM	40329	O	ARG	G	76	221.705	125.220	-36.369	1.00	105.72	GS7
ATOM	40330	N	SER	G	77	222.632	124.151	-34.620	1.00	131.08	GS7
ATOM	40331	CA	SER	G	77	221.800	122.952	-34.771	1.00	131.08	GS7
ATOM	40332	CB	SER	G	77	222.082	121.970	-33.620	1.00	122.34	GS7
ATOM	40333	OG	SER	G	77	221.567	120.673	-33.892	1.00	122.34	GS7
ATOM	40334	C	SER	G	77	220.305	123.291	-34.826	1.00	131.08	GS7

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ATOM	40335	O	SER	G	77	219.924	124.454	-34.727	1.00131.08	GS7
ATOM	40336	N	ARG	G	78	219.462	122.277	-34.996	1.00149.30	GS7
ATOM	40337	CA	ARG	G	78	218.019	122.494	-35.059	1.00149.30	GS7
ATOM	40338	CB	ARG	G	78	217.682	123.517	-36.145	1.00138.53	GS7
ATOM	40339	CG	ARG	G	78	216.191	123.707	-36.366	1.00138.53	GS7
ATOM	40340	CD	ARG	G	78	215.899	124.733	-37.452	1.00138.53	GS7
ATOM	40341	NE	ARG	G	78	214.495	124.711	-37.863	1.00138.53	GS7
ATOM	40342	CZ	ARG	G	78	213.960	125.548	-38.747	1.00138.53	GS7
ATOM	40343	NH1	ARG	G	78	214.709	126.483	-39.317	1.00138.53	GS7
ATOM	40344	NH2	ARG	G	78	212.678	125.444	-39.071	1.00138.53	GS7
ATOM	40345	C	ARG	G	78	217.230	121.214	-35.325	1.00149.30	GS7
ATOM	40346	O	ARG	G	78	217.400	120.576	-36.364	1.00149.30	GS7
ATOM	40347	N	ARG	G	79	216.362	120.846	-34.387	1.00100.08	GS7
ATOM	40348	CA	ARG	G	79	215.539	119.654	-34.543	1.00100.08	GS7
ATOM	40349	CB	ARG	G	79	214.855	119.279	-33.228	1.00167.55	GS7
ATOM	40350	CG	ARG	G	79	215.794	118.971	-32.090	1.00167.55	GS7
ATOM	40351	CD	ARG	G	79	215.186	117.921	-31.177	1.00167.55	GS7
ATOM	40352	NE	ARG	G	79	216.080	117.555	-30.081	1.00167.55	GS7
ATOM	40353	CZ	ARG	G	79	215.895	116.508	-29.282	1.00167.55	GS7
ATOM	40354	NH1	ARG	G	79	214.847	115.713	-29.453	1.00167.55	GS7
ATOM	40355	NH2	ARG	G	79	216.760	116.254	-28.310	1.00167.55	GS7
ATOM	40356	C	ARG	G	79	214.466	119.917	-35.587	1.00100.08	GS7
ATOM	40357	O	ARG	G	79	213.671	120.852	-35.453	1.00100.08	GS7
ATOM	40358	N	VAL	G	80	214.457	119.092	-36.630	1.00139.68	GS7
ATOM	40359	CA	VAL	G	80	213.472	119.208	-37.696	1.00139.68	GS7
ATOM	40360	CB	VAL	G	80	214.060	119.893	-38.957	1.00 89.89	GS7
ATOM	40361	CG1	VAL	G	80	212.959	120.110	-39.995	1.00 89.89	GS7
ATOM	40362	CG2	VAL	G	80	214.693	121.220	-38.584	1.00 89.89	GS7
ATOM	40363	C	VAL	G	80	212.997	117.810	-38.070	1.00139.68	GS7
ATOM	40364	O	VAL	G	80	213.806	116.945	-38.416	1.00139.68	GS7
ATOM	40365	N	GLY	G	81	211.685	117.597	-37.979	1.00175.88	GS7
ATOM	40366	CA	GLY	G	81	211.092	116.311	-38.311	1.00175.88	GS7
ATOM	40367	C	GLY	G	81	211.878	115.096	-37.852	1.00175.88	GS7
ATOM	40368	O	GLY	G	81	211.703	114.000	-38.385	1.00175.88	GS7
ATOM	40369	N	GLY	G	82	212.739	115.284	-36.858	1.00153.09	GS7
ATOM	40370	CA	GLY	G	82	213.541	114.185	-36.359	1.00153.09	GS7
ATOM	40371	C	GLY	G	82	214.946	114.650	-36.043	1.00153.09	GS7
ATOM	40372	O	GLY	G	82	215.138	115.525	-35.199	1.00153.09	GS7
ATOM	40373	N	ALA	G	83	215.930	114.074	-36.725	1.00140.13	GS7
ATOM	40374	CA	ALA	G	83	217.325	114.437	-36.505	1.00140.13	GS7
ATOM	40375	CB	ALA	G	83	218.190	113.896	-37.639	1.00172.01	GS7
ATOM	40376	C	ALA	G	83	217.514	115.949	-36.371	1.00140.13	GS7
ATOM	40377	O	ALA	G	83	216.703	116.740	-36.866	1.00140.13	GS7
ATOM	40378	N	ASN	G	84	218.595	116.335	-35.697	1.00130.21	GS7
ATOM	40379	CA	ASN	G	84	218.921	117.739	-35.459	1.00130.21	GS7
ATOM	40380	CB	ASN	G	84	219.596	117.879	-34.095	1.00137.75	GS7
ATOM	40381	CG	ASN	G	84	218.870	117.099	-33.017	1.00137.75	GS7
ATOM	40382	OD1	ASN	G	84	217.654	117.212	-32.873	1.00137.75	GS7
ATOM	40383	ND2	ASN	G	84	219.612	116.296	-32.258	1.00137.75	GS7
ATOM	40384	C	ASN	G	84	219.818	118.299	-36.556	1.00130.21	GS7
ATOM	40385	O	ASN	G	84	221.021	118.495	-36.367	1.00130.21	GS7
ATOM	40386	N	TYR	G	85	219.194	118.565	-37.698	1.00124.35	GS7
ATOM	40387	CA	TYR	G	85	219.855	119.088	-38.882	1.00124.35	GS7
ATOM	40388	CB	TYR	G	85	218.802	119.295	-39.974	1.00129.63	GS7
ATOM	40389	CG	TYR	G	85	218.161	118.001	-40.433	1.00129.63	GS7
ATOM	40390	CD1	TYR	G	85	217.029	118.005	-41.247	1.00129.63	GS7
ATOM	40391	CE1	TYR	G	85	216.455	116.811	-41.690	1.00129.63	GS7
ATOM	40392	CD2	TYR	G	85	218.705	116.765	-40.071	1.00129.63	GS7
ATOM	40393	CE2	TYR	G	85	218.141	115.568	-40.509	1.00129.63	GS7
ATOM	40394	CZ	TYR	G	85	217.018	115.596	-41.315	1.00129.63	GS7
ATOM	40395	OH	TYR	G	85	216.459	114.409	-41.733	1.00129.63	GS7
ATOM	40396	C	TYR	G	85	220.672	120.366	-38.686	1.00124.35	GS7
ATOM	40397	O	TYR	G	85	220.118	121.453	-38.524	1.00124.35	GS7
ATOM	40398	N	GLN	G	86	221.995	120.216	-38.710	1.00123.91	GS7
ATOM	40399	CA	GLN	G	86	222.925	121.334	-38.563	1.00123.91	GS7
ATOM	40400	CB	GLN	G	86	224.357	120.853	-38.814	1.00142.16	GS7
ATOM	40401	CG	GLN	G	86	224.803	119.786	-37.846	1.00142.16	GS7
ATOM	40402	CD	GLN	G	86	224.798	120.283	-36.415	1.00142.16	GS7
ATOM	40403	OE1	GLN	G	86	224.682	119.501	-35.471	1.00142.16	GS7
ATOM	40404	NE2	GLN	G	86	224.937	121.592	-36.245	1.00142.16	GS7
ATOM	40405	C	GLN	G	86	222.567	122.421	-39.569	1.00123.91	GS7
ATOM	40406	O	GLN	G	86	222.870	122.300	-40.753	1.00123.91	GS7
ATOM	40407	N	VAL	G	87	221.921	123.482	-39.101	1.00 81.57	GS7
ATOM	40408	CA	VAL	G	87	221.529	124.556	-40.000	1.00 81.57	GS7
ATOM	40409	CB	VAL	G	87	220.171	125.149	-39.602	1.00 79.05	GS7
ATOM	40410	CG1	VAL	G	87	219.794	126.277	-40.556	1.00 79.05	GS7
ATOM	40411	CG2	VAL	G	87	219.120	124.066	-39.631	1.00 79.05	GS7

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ATOM	40412	C	VAL	G	87	222.547	125.683	-40.083	1.00	81.57	GS7
ATOM	40413	O	VAL	G	87	223.068	126.144	-39.070	1.00	81.57	GS7
ATOM	40414	N	PRO	G	88	222.840	126.142	-41.309	1.00	92.20	GS7
ATOM	40415	CD	PRO	G	88	222.405	125.545	-42.587	1.00	76.65	GS7
ATOM	40416	CA	PRO	G	88	223.794	127.217	-41.564	1.00	92.20	GS7
ATOM	40417	CB	PRO	G	88	224.297	126.876	-42.951	1.00	76.65	GS7
ATOM	40418	CG	PRO	G	88	223.028	126.476	-43.621	1.00	76.65	GS7
ATOM	40419	C	PRO	G	88	223.081	128.553	-41.560	1.00	92.20	GS7
ATOM	40420	O	PRO	G	88	221.887	128.613	-41.834	1.00	92.20	GS7
ATOM	40421	N	MET	G	89	223.810	129.621	-41.258	1.00	87.13	GS7
ATOM	40422	CA	MET	G	89	223.214	130.945	-41.273	1.00	87.13	GS7
ATOM	40423	CB	MET	G	89	222.005	130.991	-40.342	1.00	142.65	GS7
ATOM	40424	CG	MET	G	89	222.229	130.375	-38.987	1.00	142.65	GS7
ATOM	40425	SD	MET	G	89	220.636	130.040	-38.240	1.00	142.65	GS7
ATOM	40426	CE	MET	G	89	219.946	131.709	-38.170	1.00	142.65	GS7
ATOM	40427	C	MET	G	89	224.181	132.068	-40.943	1.00	87.13	GS7
ATOM	40428	O	MET	G	89	225.164	131.871	-40.219	1.00	87.13	GS7
ATOM	40429	N	GLU	G	90	223.882	133.241	-41.506	1.00	71.89	GS7
ATOM	40430	CA	GLU	G	90	224.676	134.448	-41.328	1.00	71.89	GS7
ATOM	40431	CB	GLU	G	90	223.927	135.648	-41.902	1.00	154.35	GS7
ATOM	40432	CG	GLU	G	90	223.402	135.415	-43.306	1.00	154.35	GS7
ATOM	40433	CD	GLU	G	90	222.539	136.556	-43.805	1.00	154.35	GS7
ATOM	40434	OE1	GLU	G	90	222.033	136.461	-44.943	1.00	154.35	GS7
ATOM	40435	OE2	GLU	G	90	222.368	137.546	-43.060	1.00	154.35	GS7
ATOM	40436	C	GLU	G	90	224.940	134.670	-39.854	1.00	71.89	GS7
ATOM	40437	O	GLU	G	90	224.269	134.100	-38.988	1.00	71.89	GS7
ATOM	40438	N	VAL	G	91	225.929	135.499	-39.562	1.00	97.09	GS7
ATOM	40439	CA	VAL	G	91	226.274	135.789	-38.182	1.00	97.09	GS7
ATOM	40440	CB	VAL	G	91	227.725	135.419	-37.891	1.00	57.78	GS7
ATOM	40441	CG1	VAL	G	91	228.058	135.760	-36.457	1.00	57.78	GS7
ATOM	40442	CG2	VAL	G	91	227.947	133.937	-38.171	1.00	57.78	GS7
ATOM	40443	C	VAL	G	91	226.091	137.273	-37.960	1.00	97.09	GS7
ATOM	40444	O	VAL	G	91	226.612	138.090	-38.725	1.00	97.09	GS7
ATOM	40445	N	SER	G	92	225.346	137.625	-36.920	1.00	86.43	GS7
ATOM	40446	CA	SER	G	92	225.106	139.031	-36.637	1.00	86.43	GS7
ATOM	40447	CB	SER	G	92	224.304	139.206	-35.349	1.00	142.67	GS7
ATOM	40448	OG	SER	G	92	225.168	139.257	-34.227	1.00	142.67	GS7
ATOM	40449	C	SER	G	92	226.441	139.726	-36.468	1.00	86.43	GS7
ATOM	40450	O	SER	G	92	227.407	139.136	-35.972	1.00	86.43	GS7
ATOM	40451	N	PRO	G	93	226.517	140.996	-36.882	1.00	76.85	GS7
ATOM	40452	CD	PRO	G	93	225.422	141.893	-37.279	1.00	87.74	GS7
ATOM	40453	CA	PRO	G	93	227.773	141.734	-36.743	1.00	76.85	GS7
ATOM	40454	CB	PRO	G	93	227.403	143.131	-37.229	1.00	87.74	GS7
ATOM	40455	CG	PRO	G	93	225.960	143.236	-36.852	1.00	87.74	GS7
ATOM	40456	C	PRO	G	93	228.201	141.713	-35.277	1.00	76.85	GS7
ATOM	40457	O	PRO	G	93	229.381	141.582	-34.960	1.00	76.85	GS7
ATOM	40458	N	ARG	G	94	227.221	141.818	-34.389	1.00	69.79	GS7
ATOM	40459	CA	ARG	G	94	227.493	141.808	-32.969	1.00	69.79	GS7
ATOM	40460	CB	ARG	G	94	226.192	142.010	-32.192	1.00	83.99	GS7
ATOM	40461	CG	ARG	G	94	226.250	141.556	-30.737	1.00	83.99	GS7
ATOM	40462	CD	ARG	G	94	227.279	142.309	-29.928	1.00	83.99	GS7
ATOM	40463	NE	ARG	G	94	227.599	141.585	-28.699	1.00	83.99	GS7
ATOM	40464	CZ	ARG	G	94	228.494	141.984	-27.799	1.00	83.99	GS7
ATOM	40465	NH1	ARG	G	94	229.165	143.110	-27.977	1.00	83.99	GS7
ATOM	40466	NH2	ARG	G	94	228.739	141.244	-26.728	1.00	83.99	GS7
ATOM	40467	C	ARG	G	94	228.181	140.516	-32.546	1.00	69.79	GS7
ATOM	40468	O	ARG	G	94	229.197	140.557	-31.858	1.00	69.79	GS7
ATOM	40469	N	ARG	G	95	227.651	139.369	-32.960	1.00	80.71	GS7
ATOM	40470	CA	ARG	G	95	228.256	138.088	-32.575	1.00	80.71	GS7
ATOM	40471	CB	ARG	G	95	227.368	136.904	-32.997	1.00	67.09	GS7
ATOM	40472	CG	ARG	G	95	227.916	135.541	-32.562	1.00	67.09	GS7
ATOM	40473	CD	ARG	G	95	226.981	134.371	-32.858	1.00	67.09	GS7
ATOM	40474	NE	ARG	G	95	227.509	133.117	-32.316	1.00	67.09	GS7
ATOM	40475	CZ	ARG	G	95	227.696	132.878	-31.017	1.00	67.09	GS7
ATOM	40476	NH1	ARG	G	95	227.395	133.808	-30.115	1.00	67.09	GS7
ATOM	40477	NH2	ARG	G	95	228.193	131.714	-30.612	1.00	67.09	GS7
ATOM	40478	C	ARG	G	95	229.633	137.928	-33.201	1.00	80.71	GS7
ATOM	40479	O	ARG	G	95	230.612	137.600	-32.522	1.00	80.71	GS7
ATOM	40480	N	GLN	G	96	229.685	138.161	-34.506	1.00	93.89	GS7
ATOM	40481	CA	GLN	G	96	230.910	138.060	-35.277	1.00	93.89	GS7
ATOM	40482	CB	GLN	G	96	230.813	138.998	-36.471	1.00	92.76	GS7
ATOM	40483	CG	GLN	G	96	231.507	138.500	-37.706	1.00	92.76	GS7
ATOM	40484	CD	GLN	G	96	230.703	138.799	-38.951	1.00	92.76	GS7
ATOM	40485	OE1	GLN	G	96	230.371	139.956	-39.235	1.00	92.76	GS7
ATOM	40486	NE2	GLN	G	96	230.378	137.755	-39.704	1.00	92.76	GS7
ATOM	40487	C	GLN	G	96	232.119	138.422	-34.418	1.00	93.89	GS7
ATOM	40488	O	GLN	G	96	232.954	137.569	-34.099	1.00	93.89	GS7

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ATOM	40489	N	GLN	G	97	232.195	139.690	-34.035	1.00	80.72	GS7
ATOM	40490	CA	GLN	G	97	233.289	140.171	-33.209	1.00	80.72	GS7
ATOM	40491	CB	GLN	G	97	233.021	141.612	-32.782	1.00	86.23	GS7
ATOM	40492	CG	GLN	G	97	233.995	142.135	-31.745	1.00	86.23	GS7
ATOM	40493	CD	GLN	G	97	233.702	143.564	-31.345	1.00	86.23	GS7
ATOM	40494	OE1	GLN	G	97	233.574	144.447	-32.201	1.00	86.23	GS7
ATOM	40495	NE2	GLN	G	97	233.599	143.805	-30.039	1.00	86.23	GS7
ATOM	40496	C	GLN	G	97	233.512	139.314	-31.964	1.00	80.72	GS7
ATOM	40497	O	GLN	G	97	234.624	138.853	-31.705	1.00	80.72	GS7
ATOM	40498	N	SER	G	98	232.455	139.110	-31.189	1.00	103.06	GS7
ATOM	40499	CA	SER	G	98	232.559	138.326	-29.964	1.00	103.06	GS7
ATOM	40500	CB	SER	G	98	231.163	137.959	-29.456	1.00	113.36	GS7
ATOM	40501	OG	SER	G	98	230.367	139.110	-29.250	1.00	113.36	GS7
ATOM	40502	C	SER	G	98	233.379	137.051	-30.161	1.00	103.06	GS7
ATOM	40503	O	SER	G	98	234.185	136.678	-29.298	1.00	103.06	GS7
ATOM	40504	N	LEU	G	99	233.167	136.389	-31.298	1.00	71.49	GS7
ATOM	40505	CA	LEU	G	99	233.870	135.146	-31.602	1.00	71.49	GS7
ATOM	40506	CB	LEU	G	99	233.144	134.383	-32.703	1.00	68.89	GS7
ATOM	40507	CG	LEU	G	99	231.733	133.969	-32.307	1.00	68.89	GS7
ATOM	40508	CD1	LEU	G	99	230.758	134.451	-33.363	1.00	68.89	GS7
ATOM	40509	CD2	LEU	G	99	231.672	132.462	-32.132	1.00	68.89	GS7
ATOM	40510	C	LEU	G	99	235.291	135.417	-32.035	1.00	71.49	GS7
ATOM	40511	O	LEU	G	99	236.237	134.818	-31.522	1.00	71.49	GS7
ATOM	40512	N	ALA	G	100	235.430	136.322	-32.993	1.00	95.52	GS7
ATOM	40513	CA	ALA	G	100	236.741	136.689	-33.499	1.00	95.52	GS7
ATOM	40514	CB	ALA	G	100	236.651	137.997	-34.284	1.00	120.37	GS7
ATOM	40515	C	ALA	G	100	237.693	136.843	-32.319	1.00	95.52	GS7
ATOM	40516	O	ALA	G	100	238.694	136.128	-32.221	1.00	95.52	GS7
ATOM	40517	N	LEU	G	101	237.359	137.764	-31.416	1.00	85.25	GS7
ATOM	40518	CA	LEU	G	101	238.187	138.018	-30.244	1.00	85.25	GS7
ATOM	40519	CB	LEU	G	101	237.568	139.113	-29.377	1.00	89.03	GS7
ATOM	40520	CG	LEU	G	101	237.280	140.450	-30.058	1.00	89.03	GS7
ATOM	40521	CD1	LEU	G	101	236.795	141.447	-29.011	1.00	89.03	GS7
ATOM	40522	CD2	LEU	G	101	238.535	140.971	-30.744	1.00	89.03	GS7
ATOM	40523	C	LEU	G	101	238.403	136.764	-29.404	1.00	85.25	GS7
ATOM	40524	O	LEU	G	101	239.540	136.423	-29.073	1.00	85.25	GS7
ATOM	40525	N	ARG	G	102	237.325	136.071	-29.056	1.00	82.21	GS7
ATOM	40526	CA	ARG	G	102	237.483	134.875	-28.254	1.00	82.21	GS7
ATOM	40527	CB	ARG	G	102	236.145	134.177	-28.034	1.00	71.69	GS7
ATOM	40528	CG	ARG	G	102	236.306	132.872	-27.247	1.00	71.69	GS7
ATOM	40529	CD	ARG	G	102	234.993	132.121	-27.069	1.00	71.69	GS7
ATOM	40530	NE	ARG	G	102	233.955	133.015	-26.582	1.00	71.69	GS7
ATOM	40531	CZ	ARG	G	102	232.819	133.240	-27.221	1.00	71.69	GS7
ATOM	40532	NH1	ARG	G	102	232.578	132.624	-28.369	1.00	71.69	GS7
ATOM	40533	NH2	ARG	G	102	231.944	134.103	-26.727	1.00	71.69	GS7
ATOM	40534	C	ARG	G	102	238.457	133.902	-28.920	1.00	82.21	GS7
ATOM	40535	O	ARG	G	102	239.331	133.340	-28.256	1.00	82.21	GS7
ATOM	40536	N	TRP	G	103	238.318	133.711	-30.230	1.00	65.13	GS7
ATOM	40537	CA	TRP	G	103	239.190	132.785	-30.937	1.00	65.13	GS7
ATOM	40538	CB	TRP	G	103	238.730	132.593	-32.379	1.00	79.44	GS7
ATOM	40539	CG	TRP	G	103	237.491	131.775	-32.509	1.00	79.44	GS7
ATOM	40540	CD2	TRP	G	103	236.518	131.851	-33.556	1.00	79.44	GS7
ATOM	40541	CE2	TRP	G	103	235.539	130.875	-33.286	1.00	79.44	GS7
ATOM	40542	CE3	TRP	G	103	236.378	132.650	-34.695	1.00	79.44	GS7
ATOM	40543	CD1	TRP	G	103	237.077	130.782	-31.673	1.00	79.44	GS7
ATOM	40544	NE1	TRP	G	103	235.904	130.236	-32.131	1.00	79.44	GS7
ATOM	40545	CZ2	TRP	G	103	234.430	130.675	-34.116	1.00	79.44	GS7
ATOM	40546	CZ3	TRP	G	103	235.277	132.449	-35.520	1.00	79.44	GS7
ATOM	40547	CH2	TRP	G	103	234.319	131.470	-35.225	1.00	79.44	GS7
ATOM	40548	C	TRP	G	103	240.645	133.214	-30.924	1.00	65.13	GS7
ATOM	40549	O	TRP	G	103	241.547	132.373	-30.922	1.00	65.13	GS7
ATOM	40550	N	LEU	G	104	240.886	134.517	-30.926	1.00	78.07	GS7
ATOM	40551	CA	LEU	G	104	242.258	134.986	-30.898	1.00	78.07	GS7
ATOM	40552	CB	LEU	G	104	242.306	136.501	-31.117	1.00	70.60	GS7
ATOM	40553	CG	LEU	G	104	241.966	136.874	-32.569	1.00	70.60	GS7
ATOM	40554	CD1	LEU	G	104	241.875	138.387	-32.766	1.00	70.60	GS7
ATOM	40555	CD2	LEU	G	104	243.040	136.291	-33.467	1.00	70.60	GS7
ATOM	40556	C	LEU	G	104	242.909	134.585	-29.573	1.00	78.07	GS7
ATOM	40557	O	LEU	G	104	243.840	133.785	-29.564	1.00	78.07	GS7
ATOM	40558	N	VAL	G	105	242.410	135.103	-28.454	1.00	69.74	GS7
ATOM	40559	CA	VAL	G	105	242.988	134.754	-27.160	1.00	69.74	GS7
ATOM	40560	CB	VAL	G	105	242.168	135.287	-25.962	1.00	79.75	GS7
ATOM	40561	CG1	VAL	G	105	242.788	134.783	-24.650	1.00	79.75	GS7
ATOM	40562	CG2	VAL	G	105	242.134	136.819	-25.980	1.00	79.75	GS7
ATOM	40563	C	VAL	G	105	243.071	133.255	-27.006	1.00	69.74	GS7
ATOM	40564	O	VAL	G	105	244.044	132.742	-26.451	1.00	69.74	GS7
ATOM	40565	N	GLN	G	106	242.050	132.548	-27.483	1.00	66.51	GS7

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ATOM	40566	CA	GLN	G	106	242.042	131.088	-27.379	1.00	66.51	GS7
ATOM	40567	CB	GLN	G	106	240.748	130.501	-27.946	1.00	99.42	GS7
ATOM	40568	CG	GLN	G	106	239.562	130.546	-27.011	1.00	99.42	GS7
ATOM	40569	CD	GLN	G	106	238.341	129.867	-27.596	1.00	99.42	GS7
ATOM	40570	OE1	GLN	G	106	237.264	129.916	-27.015	1.00	99.42	GS7
ATOM	40571	NE2	GLN	G	106	238.504	129.227	-28.750	1.00	99.42	GS7
ATOM	40572	C	GLN	G	106	243.216	130.497	-28.134	1.00	66.51	GS7
ATOM	40573	O	GLN	G	106	244.134	129.919	-27.551	1.00	66.51	GS7
ATOM	40574	N	ALA	G	107	243.164	130.650	-29.447	1.00	98.15	GS7
ATOM	40575	CA	ALA	G	107	244.195	130.147	-30.327	1.00	98.15	GS7
ATOM	40576	CB	ALA	G	107	243.882	130.575	-31.743	1.00	45.58	GS7
ATOM	40577	C	ALA	G	107	245.576	130.656	-29.909	1.00	98.15	GS7
ATOM	40578	O	ALA	G	107	246.600	130.003	-30.150	1.00	98.15	GS7
ATOM	40579	N	ALA	G	108	245.597	131.824	-29.274	1.00	61.90	GS7
ATOM	40580	CA	ALA	G	108	246.849	132.423	-28.842	1.00	61.90	GS7
ATOM	40581	CB	ALA	G	108	246.625	133.875	-28.434	1.00	52.53	GS7
ATOM	40582	C	ALA	G	108	247.435	131.642	-27.689	1.00	61.90	GS7
ATOM	40583	O	ALA	G	108	248.646	131.416	-27.640	1.00	61.90	GS7
ATOM	40584	N	ASN	G	109	246.576	131.232	-26.763	1.00	70.64	GS7
ATOM	40585	CA	ASN	G	109	247.025	130.475	-25.609	1.00	70.64	GS7
ATOM	40586	CB	ASN	G	109	246.036	130.616	-24.465	1.00	106.32	GS7
ATOM	40587	CG	ASN	G	109	246.176	131.930	-23.760	1.00	106.32	GS7
ATOM	40588	OD1	ASN	G	109	247.246	132.246	-23.239	1.00	106.32	GS7
ATOM	40589	ND2	ASN	G	109	245.102	132.714	-23.738	1.00	106.32	GS7
ATOM	40590	C	ASN	G	109	247.249	129.008	-25.926	1.00	70.64	GS7
ATOM	40591	O	ASN	G	109	247.528	128.202	-25.029	1.00	70.64	GS7
ATOM	40592	N	GLN	G	110	247.114	128.660	-27.203	1.00	84.07	GS7
ATOM	40593	CA	GLN	G	110	247.349	127.292	-27.636	1.00	84.07	GS7
ATOM	40594	CB	GLN	G	110	246.283	126.833	-28.631	1.00	115.86	GS7
ATOM	40595	CG	GLN	G	110	244.999	126.372	-27.968	1.00	115.86	GS7
ATOM	40596	CD	GLN	G	110	245.244	125.341	-26.876	1.00	115.86	GS7
ATOM	40597	OE1	GLN	G	110	245.802	125.652	-25.820	1.00	115.86	GS7
ATOM	40598	NE2	GLN	G	110	244.833	124.105	-27.130	1.00	115.86	GS7
ATOM	40599	C	GLN	G	110	248.717	127.276	-28.283	1.00	84.07	GS7
ATOM	40600	O	GLN	G	110	249.272	126.217	-28.578	1.00	84.07	GS7
ATOM	40601	N	ARG	G	111	249.255	128.469	-28.502	1.00	101.10	GS7
ATOM	40602	CA	ARG	G	111	250.572	128.600	-29.089	1.00	101.10	GS7
ATOM	40603	CB	ARG	G	111	250.851	130.058	-29.427	1.00	99.24	GS7
ATOM	40604	CG	ARG	G	111	250.376	130.419	-30.818	1.00	99.24	GS7
ATOM	40605	CD	ARG	G	111	250.368	131.915	-31.046	1.00	99.24	GS7
ATOM	40606	NE	ARG	G	111	250.607	132.233	-32.450	1.00	99.24	GS7
ATOM	40607	CZ	ARG	G	111	251.778	132.065	-33.060	1.00	99.24	GS7
ATOM	40608	NH1	ARG	G	111	252.816	131.584	-32.383	1.00	99.24	GS7
ATOM	40609	NH2	ARG	G	111	251.911	132.374	-34.343	1.00	99.24	GS7
ATOM	40610	C	ARG	G	111	251.594	128.048	-28.106	1.00	101.10	GS7
ATOM	40611	O	ARG	G	111	251.277	127.801	-26.941	1.00	101.10	GS7
ATOM	40612	N	PRO	G	112	252.834	127.837	-28.565	1.00	102.64	GS7
ATOM	40613	CD	PRO	G	112	253.209	127.771	-29.989	1.00	65.61	GS7
ATOM	40614	CA	PRO	G	112	253.904	127.296	-27.729	1.00	102.64	GS7
ATOM	40615	CB	PRO	G	112	254.653	126.420	-28.708	1.00	65.61	GS7
ATOM	40616	CG	PRO	G	112	254.641	127.271	-29.933	1.00	65.61	GS7
ATOM	40617	C	PRO	G	112	254.845	128.243	-26.978	1.00	102.64	GS7
ATOM	40618	O	PRO	G	112	255.323	127.889	-25.898	1.00	102.64	GS7
ATOM	40619	N	GLU	G	113	255.136	129.419	-27.532	1.00	90.36	GS7
ATOM	40620	CA	GLU	G	113	256.044	130.342	-26.845	1.00	90.36	GS7
ATOM	40621	CB	GLU	G	113	256.020	131.736	-27.493	1.00	104.71	GS7
ATOM	40622	CG	GLU	G	113	254.790	132.059	-28.347	1.00	104.71	GS7
ATOM	40623	CD	GLU	G	113	254.863	131.503	-29.770	1.00	104.71	GS7
ATOM	40624	OE1	GLU	G	113	255.840	131.806	-30.494	1.00	104.71	GS7
ATOM	40625	OE2	GLU	G	113	253.934	130.769	-30.167	1.00	104.71	GS7
ATOM	40626	C	GLU	G	113	255.677	130.438	-25.363	1.00	90.36	GS7
ATOM	40627	O	GLU	G	113	254.524	130.696	-25.019	1.00	90.36	GS7
ATOM	40628	N	ARG	G	114	256.657	130.216	-24.488	1.00	72.03	GS7
ATOM	40629	CA	ARG	G	114	256.417	130.250	-23.045	1.00	72.03	GS7
ATOM	40630	CB	ARG	G	114	257.729	130.061	-22.277	1.00	92.85	GS7
ATOM	40631	CG	ARG	G	114	258.597	128.874	-22.680	1.00	92.85	GS7
ATOM	40632	CD	ARG	G	114	259.807	128.854	-21.749	1.00	92.85	GS7
ATOM	40633	NE	ARG	G	114	260.866	127.878	-22.036	1.00	92.85	GS7
ATOM	40634	CZ	ARG	G	114	260.694	126.566	-22.207	1.00	92.85	GS7
ATOM	40635	NH1	ARG	G	114	259.480	126.025	-22.143	1.00	92.85	GS7
ATOM	40636	NH2	ARG	G	114	261.752	125.780	-22.400	1.00	92.85	GS7
ATOM	40637	C	ARG	G	114	255.727	131.526	-22.532	1.00	72.03	GS7
ATOM	40638	O	ARG	G	114	254.830	131.441	-21.699	1.00	72.03	GS7
ATOM	40639	N	ARG	G	115	256.137	132.694	-23.032	1.00	78.04	GS7
ATOM	40640	CA	ARG	G	115	255.578	133.983	-22.599	1.00	78.04	GS7
ATOM	40641	CB	ARG	G	115	256.599	135.093	-22.840	1.00	162.31	GS7
ATOM	40642	CG	ARG	G	115	257.814	135.036	-21.930	1.00	162.31	GS7

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ATOM	40643	CD	ARG	G	115	258.913	135.916	-22.486	1.00162.31	GS7
ATOM	40644	NE	ARG	G	115	258.434	137.269	-22.752	1.00162.31	GS7
ATOM	40645	CZ	ARG	G	115	258.909	138.052	-23.716	1.00162.31	GS7
ATOM	40646	NH1	ARG	G	115	259.876	137.617	-24.513	1.00162.31	GS7
ATOM	40647	NH2	ARG	G	115	258.418	139.271	-23.885	1.00162.31	GS7
ATOM	40648	C	ARG	G	115	254.237	134.401	-23.216	1.00 78.04	GS7
ATOM	40649	O	ARG	G	115	254.103	134.517	-24.437	1.00 78.04	GS7
ATOM	40650	N	ALA	G	116	253.261	134.654	-22.346	1.00 78.18	GS7
ATOM	40651	CA	ALA	G	116	251.912	135.055	-22.744	1.00 78.18	GS7
ATOM	40652	CB	ALA	G	116	251.069	135.332	-21.500	1.00 45.75	GS7
ATOM	40653	C	ALA	G	116	251.882	136.274	-23.659	1.00 78.18	GS7
ATOM	40654	O	ALA	G	116	251.144	136.309	-24.650	1.00 78.18	GS7
ATOM	40655	N	ALA	G	117	252.674	137.282	-23.311	1.00 95.82	GS7
ATOM	40656	CA	ALA	G	117	252.721	138.504	-24.100	1.00 95.82	GS7
ATOM	40657	CB	ALA	G	117	253.771	139.442	-23.535	1.00 82.29	GS7
ATOM	40658	C	ALA	G	117	253.028	138.187	-25.558	1.00 95.82	GS7
ATOM	40659	O	ALA	G	117	252.409	138.738	-26.472	1.00 95.82	GS7
ATOM	40660	N	VAL	G	118	253.981	137.286	-25.766	1.00103.64	GS7
ATOM	40661	CA	VAL	G	118	254.381	136.899	-27.111	1.00103.64	GS7
ATOM	40662	CB	VAL	G	118	255.501	135.848	-27.088	1.00 73.19	GS7
ATOM	40663	CG1	VAL	G	118	255.955	135.574	-28.506	1.00 73.19	GS7
ATOM	40664	CG2	VAL	G	118	256.666	136.325	-26.214	1.00 73.19	GS7
ATOM	40665	C	VAL	G	118	253.220	136.311	-27.895	1.00103.64	GS7
ATOM	40666	O	VAL	G	118	252.862	136.810	-28.961	1.00103.64	GS7
ATOM	40667	N	ARG	G	119	252.641	135.243	-27.358	1.00 98.51	GS7
ATOM	40668	CA	ARG	G	119	251.531	134.568	-28.011	1.00 98.51	GS7
ATOM	40669	CB	ARG	G	119	250.878	133.573	-27.059	1.00 72.03	GS7
ATOM	40670	CG	ARG	G	119	251.796	132.460	-26.639	1.00 72.03	GS7
ATOM	40671	CD	ARG	G	119	251.026	131.350	-25.960	1.00 72.03	GS7
ATOM	40672	NE	ARG	G	119	250.357	131.793	-24.734	1.00 72.03	GS7
ATOM	40673	CZ	ARG	G	119	250.978	132.093	-23.596	1.00 72.03	GS7
ATOM	40674	NH1	ARG	G	119	252.298	132.005	-23.503	1.00 72.03	GS7
ATOM	40675	NH2	ARG	G	119	250.269	132.477	-22.545	1.00 72.03	GS7
ATOM	40676	C	ARG	G	119	250.469	135.504	-28.567	1.00 98.51	GS7
ATOM	40677	O	ARG	G	119	250.002	135.301	-29.687	1.00 98.51	GS7
ATOM	40678	N	ILE	G	120	250.076	136.520	-27.800	1.00 68.46	GS7
ATOM	40679	CA	ILE	G	120	249.057	137.446	-28.283	1.00 68.46	GS7
ATOM	40680	CB	ILE	G	120	248.747	138.563	-27.265	1.00 80.23	GS7
ATOM	40681	CG2	ILE	G	120	247.941	139.683	-27.946	1.00 80.23	GS7
ATOM	40682	CG1	ILE	G	120	247.946	137.999	-26.096	1.00 80.23	GS7
ATOM	40683	CD1	ILE	G	120	246.518	137.654	-26.465	1.00 80.23	GS7
ATOM	40684	C	ILE	G	120	249.573	138.106	-29.546	1.00 68.46	GS7
ATOM	40685	O	ILE	G	120	248.884	138.153	-30.579	1.00 68.46	GS7
ATOM	40686	N	ALA	G	121	250.801	138.610	-29.439	1.00 92.57	GS7
ATOM	40687	CA	ALA	G	121	251.480	139.308	-30.527	1.00 92.57	GS7
ATOM	40688	CB	ALA	G	121	252.867	139.754	-30.061	1.00 87.07	GS7
ATOM	40689	C	ALA	G	121	251.594	138.457	-31.787	1.00 92.57	GS7
ATOM	40690	O	ALA	G	121	251.132	138.846	-32.860	1.00 92.57	GS7
ATOM	40691	N	HIS	G	122	252.220	137.297	-31.652	1.00109.78	GS7
ATOM	40692	CA	HIS	G	122	252.380	136.409	-32.785	1.00109.78	GS7
ATOM	40693	CB	HIS	G	122	253.142	135.156	-32.357	1.00 94.82	GS7
ATOM	40694	CG	HIS	G	122	254.610	135.386	-32.177	1.00 94.82	GS7
ATOM	40695	CD2	HIS	G	122	255.392	136.441	-32.508	1.00 94.82	GS7
ATOM	40696	ND1	HIS	G	122	255.448	134.451	-31.608	1.00 94.82	GS7
ATOM	40697	CE1	HIS	G	122	256.683	134.922	-31.594	1.00 94.82	GS7
ATOM	40698	NE2	HIS	G	122	256.676	136.127	-32.135	1.00 94.82	GS7
ATOM	40699	C	HIS	G	122	251.027	136.045	-33.380	1.00109.78	GS7
ATOM	40700	O	HIS	G	122	250.800	136.243	-34.574	1.00109.78	GS7
ATOM	40701	N	GLU	G	123	250.123	135.530	-32.549	1.00 83.71	GS7
ATOM	40702	CA	GLU	G	123	248.799	135.153	-33.019	1.00 83.71	GS7
ATOM	40703	CB	GLU	G	123	247.908	134.741	-31.850	1.00100.55	GS7
ATOM	40704	CG	GLU	G	123	246.594	134.130	-32.307	1.00100.55	GS7
ATOM	40705	CD	GLU	G	123	246.798	132.903	-33.189	1.00100.55	GS7
ATOM	40706	OE1	GLU	G	123	245.816	132.439	-33.808	1.00100.55	GS7
ATOM	40707	OE2	GLU	G	123	247.940	132.397	-33.262	1.00100.55	GS7
ATOM	40708	C	GLU	G	123	248.152	136.309	-33.772	1.00 83.71	GS7
ATOM	40709	O	GLU	G	123	247.549	136.107	-34.824	1.00 83.71	GS7
ATOM	40710	N	LEU	G	124	248.275	137.519	-33.235	1.00 77.36	GS7
ATOM	40711	CA	LEU	G	124	247.708	138.690	-33.897	1.00 77.36	GS7
ATOM	40712	CB	LEU	G	124	247.992	139.941	-33.072	1.00 70.29	GS7
ATOM	40713	CG	LEU	G	124	246.981	140.125	-31.950	1.00 70.29	GS7
ATOM	40714	CD1	LEU	G	124	247.400	141.259	-31.033	1.00 70.29	GS7
ATOM	40715	CD2	LEU	G	124	245.622	140.402	-32.566	1.00 70.29	GS7
ATOM	40716	C	LEU	G	124	248.247	138.873	-35.322	1.00 77.36	GS7
ATOM	40717	O	LEU	G	124	247.482	139.049	-36.280	1.00 77.36	GS7
ATOM	40718	N	MET	G	125	249.570	138.833	-35.452	1.00 98.82	GS7
ATOM	40719	CA	MET	G	125	250.215	138.986	-36.745	1.00 98.82	GS7

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ATOM	40720	CB	MET	G	125	251.727	138.999	-36.561	1.00109.72	GS7
ATOM	40721	CG	MET	G	125	252.192	140.143	-35.683	1.00109.72	GS7
ATOM	40722	SD	MET	G	125	253.974	140.206	-35.470	1.00109.72	GS7
ATOM	40723	CE	MET	G	125	254.166	139.263	-33.970	1.00109.72	GS7
ATOM	40724	C	MET	G	125	249.790	137.858	-37.681	1.00 98.82	GS7
ATOM	40725	O	MET	G	125	249.425	138.105	-38.831	1.00 98.82	GS7
ATOM	40726	N	ASP	G	126	249.836	136.624	-37.187	1.00 94.45	GS7
ATOM	40727	CA	ASP	G	126	249.425	135.467	-37.982	1.00 94.45	GS7
ATOM	40728	CB	ASP	G	126	249.407	134.201	-37.120	1.00112.02	GS7
ATOM	40729	CG	ASP	G	126	250.748	133.503	-37.070	1.00112.02	GS7
ATOM	40730	OD1	ASP	G	126	251.777	134.188	-36.890	1.00112.02	GS7
ATOM	40731	OD2	ASP	G	126	250.770	132.261	-37.202	1.00112.02	GS7
ATOM	40732	C	ASP	G	126	248.019	135.736	-38.500	1.00 94.45	GS7
ATOM	40733	O	ASP	G	126	247.694	135.457	-39.657	1.00 94.45	GS7
ATOM	40734	N	ALA	G	127	247.192	136.285	-37.618	1.00102.05	GS7
ATOM	40735	CA	ALA	G	127	245.818	136.604	-37.953	1.00102.05	GS7
ATOM	40736	CB	ALA	G	127	245.132	137.246	-36.761	1.00107.28	GS7
ATOM	40737	C	ALA	G	127	245.803	137.547	-39.141	1.00102.05	GS7
ATOM	40738	O	ALA	G	127	245.049	137.353	-40.093	1.00102.05	GS7
ATOM	40739	N	ALA	G	128	246.645	138.571	-39.084	1.00 92.66	GS7
ATOM	40740	CA	ALA	G	128	246.719	139.535	-40.171	1.00 92.66	GS7
ATOM	40741	CB	ALA	G	128	247.687	140.656	-39.810	1.00 80.26	GS7
ATOM	40742	C	ALA	G	128	247.165	138.840	-41.455	1.00 92.66	GS7
ATOM	40743	O	ALA	G	128	246.607	139.078	-42.529	1.00 92.66	GS7
ATOM	40744	N	GLU	G	129	248.166	137.973	-41.331	1.00115.48	GS7
ATOM	40745	CA	GLU	G	129	248.705	137.236	-42.469	1.00115.48	GS7
ATOM	40746	CB	GLU	G	129	249.889	136.376	-42.019	1.00177.72	GS7
ATOM	40747	CG	GLU	G	129	251.121	137.175	-41.618	1.00177.72	GS7
ATOM	40748	CD	GLU	G	129	251.924	137.652	-42.813	1.00177.72	GS7
ATOM	40749	OE1	GLU	G	129	252.603	136.814	-43.441	1.00177.72	GS7
ATOM	40750	OE2	GLU	G	129	251.870	138.859	-43.129	1.00177.72	GS7
ATOM	40751	C	GLU	G	129	247.654	136.354	-43.136	1.00115.48	GS7
ATOM	40752	O	GLU	G	129	247.500	136.370	-44.357	1.00115.48	GS7
ATOM	40753	N	GLY	G	130	246.926	135.593	-42.329	1.00 79.31	GS7
ATOM	40754	CA	GLY	G	130	245.910	134.712	-42.866	1.00 79.31	GS7
ATOM	40755	C	GLY	G	130	246.204	133.317	-42.366	1.00 79.31	GS7
ATOM	40756	O	GLY	G	130	245.669	132.327	-42.870	1.00 79.31	GS7
ATOM	40757	N	LYS	G	131	247.074	133.242	-41.365	1.00 92.55	GS7
ATOM	40758	CA	LYS	G	131	247.464	131.973	-40.773	1.00 92.55	GS7
ATOM	40759	CB	LYS	G	131	248.941	131.693	-41.075	1.00123.55	GS7
ATOM	40760	CG	LYS	G	131	249.857	132.902	-40.900	1.00123.55	GS7
ATOM	40761	CD	LYS	G	131	251.252	132.663	-41.490	1.00123.55	GS7
ATOM	40762	CE	LYS	G	131	252.123	133.920	-41.383	1.00123.55	GS7
ATOM	40763	NZ	LYS	G	131	253.483	133.755	-41.968	1.00123.55	GS7
ATOM	40764	C	LYS	G	131	247.223	132.027	-39.273	1.00 92.55	GS7
ATOM	40765	O	LYS	G	131	246.775	133.050	-38.750	1.00 92.55	GS7
ATOM	40766	N	GLY	G	132	247.513	130.929	-38.583	1.00108.97	GS7
ATOM	40767	CA	GLY	G	132	247.311	130.893	-37.147	1.00108.97	GS7
ATOM	40768	C	GLY	G	132	245.999	130.225	-36.782	1.00108.97	GS7
ATOM	40769	O	GLY	G	132	244.989	130.402	-37.476	1.00108.97	GS7
ATOM	40770	N	GLY	G	133	246.014	129.468	-35.684	1.00 85.02	GS7
ATOM	40771	CA	GLY	G	133	244.830	128.750	-35.232	1.00 85.02	GS7
ATOM	40772	C	GLY	G	133	243.533	129.540	-35.186	1.00 85.02	GS7
ATOM	40773	O	GLY	G	133	242.450	128.985	-35.377	1.00 85.02	GS7
ATOM	40774	N	ALA	G	134	243.646	130.838	-34.927	1.00 72.88	GS7
ATOM	40775	CA	ALA	G	134	242.484	131.706	-34.843	1.00 72.88	GS7
ATOM	40776	CB	ALA	G	134	242.915	133.130	-34.543	1.00145.23	GS7
ATOM	40777	C	ALA	G	134	241.756	131.659	-36.155	1.00 72.88	GS7
ATOM	40778	O	ALA	G	134	240.563	131.383	-36.201	1.00 72.88	GS7
ATOM	40779	N	VAL	G	135	242.490	131.915	-37.230	1.00 91.32	GS7
ATOM	40780	CA	VAL	G	135	241.897	131.917	-38.555	1.00 91.32	GS7
ATOM	40781	CB	VAL	G	135	242.873	132.449	-39.598	1.00 81.41	GS7
ATOM	40782	CG1	VAL	G	135	242.139	132.681	-40.902	1.00 81.41	GS7
ATOM	40783	CG2	VAL	G	135	243.502	133.738	-39.103	1.00 81.41	GS7
ATOM	40784	C	VAL	G	135	241.428	130.539	-38.990	1.00 91.32	GS7
ATOM	40785	O	VAL	G	135	240.403	130.420	-39.662	1.00 91.32	GS7
ATOM	40786	N	LYS	G	136	242.176	129.502	-38.616	1.00 84.41	GS7
ATOM	40787	CA	LYS	G	136	241.788	128.144	-38.976	1.00 84.41	GS7
ATOM	40788	CB	LYS	G	136	242.736	127.128	-38.344	1.00134.95	GS7
ATOM	40789	CG	LYS	G	136	242.378	125.678	-38.644	1.00134.95	GS7
ATOM	40790	CD	LYS	G	136	241.839	124.953	-37.407	1.00134.95	GS7
ATOM	40791	CE	LYS	G	136	242.905	124.843	-36.307	1.00134.95	GS7
ATOM	40792	NZ	LYS	G	136	242.438	124.137	-35.071	1.00134.95	GS7
ATOM	40793	C	LYS	G	136	240.353	127.899	-38.502	1.00 84.41	GS7
ATOM	40794	O	LYS	G	136	239.493	127.514	-39.294	1.00 84.41	GS7
ATOM	40795	N	LYS	G	137	240.090	128.145	-37.217	1.00 89.47	GS7
ATOM	40796	CA	LYS	G	137	238.748	127.955	-36.658	1.00 89.47	GS7

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ATOM	40797	CB	LYS	G	137	238.676	128.451	-35.206	1.00112.22	GS7
ATOM	40798	CG	LYS	G	137	239.822	127.947	-34.330	1.00112.22	GS7
ATOM	40799	CD	LYS	G	137	239.555	128.130	-32.836	1.00112.22	GS7
ATOM	40800	CE	LYS	G	137	240.678	127.527	-32.004	1.00112.22	GS7
ATOM	40801	NZ	LYS	G	137	240.239	127.299	-30.608	1.00112.22	GS7
ATOM	40802	C	LYS	G	137	237.762	128.738	-37.503	1.00 89.47	GS7
ATOM	40803	O	LYS	G	137	236.819	128.175	-38.055	1.00 89.47	GS7
ATOM	40804	N	LYS	G	138	238.000	130.040	-37.614	1.00 71.64	GS7
ATOM	40805	CA	LYS	G	138	237.130	130.903	-38.393	1.00 71.64	GS7
ATOM	40806	CB	LYS	G	138	237.790	132.274	-38.584	1.00 74.45	GS7
ATOM	40807	CG	LYS	G	138	237.061	133.209	-39.542	1.00 74.45	GS7
ATOM	40808	CD	LYS	G	138	237.347	132.819	-40.980	1.00 74.45	GS7
ATOM	40809	CE	LYS	G	138	236.519	133.604	-41.972	1.00 74.45	GS7
ATOM	40810	NZ	LYS	G	138	236.755	133.074	-43.350	1.00 74.45	GS7
ATOM	40811	C	LYS	G	138	236.801	130.272	-39.742	1.00 71.64	GS7
ATOM	40812	O	LYS	G	138	235.695	130.427	-40.253	1.00 71.64	GS7
ATOM	40813	N	GLU	G	139	237.760	129.552	-40.314	1.00 85.76	GS7
ATOM	40814	CA	GLU	G	139	237.553	128.924	-41.609	1.00 85.76	GS7
ATOM	40815	CB	GLU	G	139	238.887	128.779	-42.336	1.00138.59	GS7
ATOM	40816	CG	GLU	G	139	239.603	130.096	-42.553	1.00138.59	GS7
ATOM	40817	CD	GLU	G	139	240.878	129.936	-43.356	1.00138.59	GS7
ATOM	40818	OE1	GLU	G	139	241.720	129.092	-42.972	1.00138.59	GS7
ATOM	40819	OE2	GLU	G	139	241.039	130.654	-44.368	1.00138.59	GS7
ATOM	40820	C	GLU	G	139	236.863	127.567	-41.516	1.00 85.76	GS7
ATOM	40821	O	GLU	G	139	236.100	127.202	-42.415	1.00 85.76	GS7
ATOM	40822	N	ASP	G	140	237.138	126.823	-40.441	1.00100.28	GS7
ATOM	40823	CA	ASP	G	140	236.525	125.507	-40.229	1.00100.28	GS7
ATOM	40824	CB	ASP	G	140	237.175	124.788	-39.044	1.00163.76	GS7
ATOM	40825	CG	ASP	G	140	238.579	124.307	-39.350	1.00163.76	GS7
ATOM	40826	OD1	ASP	G	140	239.480	125.150	-39.528	1.00163.76	GS7
ATOM	40827	OD2	ASP	G	140	238.781	123.077	-39.416	1.00163.76	GS7
ATOM	40828	C	ASP	G	140	235.035	125.692	-39.957	1.00100.28	GS7
ATOM	40829	O	ASP	G	140	234.215	124.807	-40.221	1.00100.28	GS7
ATOM	40830	N	VAL	G	141	234.706	126.861	-39.420	1.00 82.78	GS7
ATOM	40831	CA	VAL	G	141	233.338	127.229	-39.112	1.00 82.78	GS7
ATOM	40832	CB	VAL	G	141	233.292	128.551	-38.352	1.00 79.93	GS7
ATOM	40833	CG1	VAL	G	141	231.869	129.088	-38.308	1.00 79.93	GS7
ATOM	40834	CG2	VAL	G	141	233.833	128.341	-36.953	1.00 79.93	GS7
ATOM	40835	C	VAL	G	141	232.583	127.395	-40.409	1.00 82.78	GS7
ATOM	40836	O	VAL	G	141	231.595	126.708	-40.640	1.00 82.78	GS7
ATOM	40837	N	GLU	G	142	233.049	128.312	-41.253	1.00 75.88	GS7
ATOM	40838	CA	GLU	G	142	232.403	128.557	-42.542	1.00 75.88	GS7
ATOM	40839	CB	GLU	G	142	233.144	129.649	-43.310	1.00120.61	GS7
ATOM	40840	CG	GLU	G	142	233.118	130.990	-42.612	1.00120.61	GS7
ATOM	40841	CD	GLU	G	142	233.748	132.093	-43.439	1.00120.61	GS7
ATOM	40842	OE1	GLU	G	142	233.796	133.245	-42.955	1.00120.61	GS7
ATOM	40843	OE2	GLU	G	142	234.194	131.811	-44.572	1.00120.61	GS7
ATOM	40844	C	GLU	G	142	232.341	127.280	-43.381	1.00 75.88	GS7
ATOM	40845	O	GLU	G	142	231.398	127.085	-44.154	1.00 75.88	GS7
ATOM	40846	N	ARG	G	143	233.351	126.421	-43.225	1.00 94.63	GS7
ATOM	40847	CA	ARG	G	143	233.397	125.156	-43.945	1.00 94.63	GS7
ATOM	40848	CB	ARG	G	143	234.676	124.386	-43.632	1.00134.19	GS7
ATOM	40849	CG	ARG	G	143	235.907	124.980	-44.261	1.00134.19	GS7
ATOM	40850	CD	ARG	G	143	237.119	124.116	-43.994	1.00134.19	GS7
ATOM	40851	NE	ARG	G	143	238.329	124.710	-44.552	1.00134.19	GS7
ATOM	40852	CZ	ARG	G	143	239.530	124.146	-44.502	1.00134.19	GS7
ATOM	40853	NH1	ARG	G	143	239.683	122.968	-43.916	1.00134.19	GS7
ATOM	40854	NH2	ARG	G	143	240.577	124.760	-45.039	1.00134.19	GS7
ATOM	40855	C	ARG	G	143	232.198	124.348	-43.506	1.00 94.63	GS7
ATOM	40856	O	ARG	G	143	231.468	123.823	-44.339	1.00 94.63	GS7
ATOM	40857	N	MET	G	144	232.006	124.240	-42.194	1.00 90.15	GS7
ATOM	40858	CA	MET	G	144	230.857	123.525	-41.646	1.00 90.15	GS7
ATOM	40859	CB	MET	G	144	230.720	123.835	-40.157	1.00127.23	GS7
ATOM	40860	CG	MET	G	144	231.413	122.843	-39.265	1.00127.23	GS7
ATOM	40861	SD	MET	G	144	230.544	121.284	-39.375	1.00127.23	GS7
ATOM	40862	CE	MET	G	144	229.203	121.556	-38.182	1.00127.23	GS7
ATOM	40863	C	MET	G	144	229.611	124.003	-42.398	1.00 90.15	GS7
ATOM	40864	O	MET	G	144	228.877	123.212	-42.990	1.00 90.15	GS7
ATOM	40865	N	ALA	G	145	229.379	125.310	-42.372	1.00 86.11	GS7
ATOM	40866	CA	ALA	G	145	228.252	125.884	-43.086	1.00 86.11	GS7
ATOM	40867	CB	ALA	G	145	228.068	127.324	-42.684	1.00102.05	GS7
ATOM	40868	C	ALA	G	145	228.697	125.795	-44.528	1.00 86.11	GS7
ATOM	40869	O	ALA	G	145	229.800	125.325	-44.787	1.00 86.11	GS7
ATOM	40870	N	GLU	G	146	227.873	126.234	-45.471	1.00130.47	GS7
ATOM	40871	CA	GLU	G	146	228.282	126.174	-46.875	1.00130.47	GS7
ATOM	40872	CB	GLU	G	146	229.522	127.053	-47.094	1.00144.60	GS7
ATOM	40873	CG	GLU	G	146	229.367	128.135	-48.152	1.00144.60	GS7

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ATOM	40874	CD	GLU	G	146	229.135	127.571	-49.537	1.00144.60	GS7
ATOM	40875	OE1	GLU	G	146	230.008	126.823	-50.025	1.00144.60	GS7
ATOM	40876	OE2	GLU	G	146	228.081	127.875	-50.136	1.00144.60	GS7
ATOM	40877	C	GLU	G	146	228.604	124.727	-47.262	1.00130.47	GS7
ATOM	40878	O	GLU	G	146	228.996	124.440	-48.395	1.00130.47	GS7
ATOM	40879	N	ALA	G	147	228.449	123.824	-46.299	1.00 87.73	GS7
ATOM	40880	CA	ALA	G	147	228.695	122.407	-46.503	1.00 87.73	GS7
ATOM	40881	CB	ALA	G	147	229.936	121.992	-45.781	1.00 69.59	GS7
ATOM	40882	C	ALA	G	147	227.489	121.679	-45.934	1.00 87.73	GS7
ATOM	40883	O	ALA	G	147	227.428	120.449	-45.913	1.00 87.73	GS7
ATOM	40884	N	ASN	G	148	226.543	122.477	-45.452	1.00118.47	GS7
ATOM	40885	CA	ASN	G	148	225.292	121.991	-44.897	1.00118.47	GS7
ATOM	40886	CB	ASN	G	148	225.215	122.257	-43.400	1.00101.75	GS7
ATOM	40887	CG	ASN	G	148	225.866	121.178	-42.586	1.00101.75	GS7
ATOM	40888	OD1	ASN	G	148	225.472	120.019	-42.648	1.00101.75	GS7
ATOM	40889	ND2	ASN	G	148	226.870	121.550	-41.808	1.00101.75	GS7
ATOM	40890	C	ASN	G	148	224.224	122.804	-45.585	1.00118.47	GS7
ATOM	40891	O	ASN	G	148	223.054	122.756	-45.209	1.00118.47	GS7
ATOM	40892	N	ARG	G	149	224.643	123.561	-46.594	1.00100.22	GS7
ATOM	40893	CA	ARG	G	149	223.733	124.416	-47.337	1.00100.22	GS7
ATOM	40894	CB	ARG	G	149	224.461	125.055	-48.516	1.00149.39	GS7
ATOM	40895	CG	ARG	G	149	224.293	126.550	-48.550	1.00149.39	GS7
ATOM	40896	CD	ARG	G	149	223.789	126.996	-49.896	1.00149.39	GS7
ATOM	40897	NE	ARG	G	149	224.815	126.866	-50.926	1.00149.39	GS7
ATOM	40898	CZ	ARG	G	149	224.631	127.182	-52.206	1.00149.39	GS7
ATOM	40899	NH1	ARG	G	149	223.452	127.646	-52.613	1.00149.39	GS7
ATOM	40900	NH2	ARG	G	149	225.626	127.043	-53.080	1.00149.39	GS7
ATOM	40901	C	ARG	G	149	222.486	123.672	-47.817	1.00100.22	GS7
ATOM	40902	O	ARG	G	149	221.516	124.289	-48.265	1.00100.22	GS7
ATOM	40903	N	ALA	G	150	222.514	122.345	-47.719	1.00 97.42	GS7
ATOM	40904	CA	ALA	G	150	221.373	121.533	-48.122	1.00 97.42	GS7
ATOM	40905	CB	ALA	G	150	221.734	120.057	-48.059	1.00126.38	GS7
ATOM	40906	C	ALA	G	150	220.224	121.832	-47.168	1.00 97.42	GS7
ATOM	40907	O	ALA	G	150	219.083	122.021	-47.587	1.00 97.42	GS7
ATOM	40908	N	TYR	G	151	220.546	121.885	-45.880	1.00114.63	GS7
ATOM	40909	CA	TYR	G	151	219.563	122.161	-44.845	1.00114.63	GS7
ATOM	40910	CB	TYR	G	151	219.924	121.415	-43.565	1.00113.52	GS7
ATOM	40911	CG	TYR	G	151	220.303	119.974	-43.771	1.00113.52	GS7
ATOM	40912	CD1	TYR	G	151	221.492	119.631	-44.409	1.00113.52	GS7
ATOM	40913	CE1	TYR	G	151	221.883	118.299	-44.534	1.00113.52	GS7
ATOM	40914	CD2	TYR	G	151	219.505	118.951	-43.271	1.00113.52	GS7
ATOM	40915	CE2	TYR	G	151	219.884	117.616	-43.387	1.00113.52	GS7
ATOM	40916	CZ	TYR	G	151	221.076	117.297	-44.014	1.00113.52	GS7
ATOM	40917	OH	TYR	G	151	221.480	115.983	-44.079	1.00113.52	GS7
ATOM	40918	C	TYR	G	151	219.495	123.655	-44.540	1.00114.63	GS7
ATOM	40919	O	TYR	G	151	219.524	124.062	-43.377	1.00114.63	GS7
ATOM	40920	N	ALA	G	152	219.410	124.469	-45.587	1.00119.04	GS7
ATOM	40921	CA	ALA	G	152	219.335	125.917	-45.421	1.00119.04	GS7
ATOM	40922	CB	ALA	G	152	220.297	126.611	-46.375	1.00 65.07	GS7
ATOM	40923	C	ALA	G	152	217.918	126.421	-45.655	1.00119.04	GS7
ATOM	40924	O	ALA	G	152	217.605	127.572	-45.345	1.00119.04	GS7
ATOM	40925	N	HIS	G	153	217.067	125.565	-46.221	1.00158.79	GS7
ATOM	40926	CA	HIS	G	153	215.683	125.944	-46.459	1.00158.79	GS7
ATOM	40927	CB	HIS	G	153	214.980	124.941	-47.384	1.00132.61	GS7
ATOM	40928	CG	HIS	G	153	214.905	123.548	-46.842	1.00132.61	GS7
ATOM	40929	CD2	HIS	G	153	213.848	122.719	-46.657	1.00132.61	GS7
ATOM	40930	ND1	HIS	G	153	216.022	122.832	-46.467	1.00132.61	GS7
ATOM	40931	CE1	HIS	G	153	215.657	121.622	-46.079	1.00132.61	GS7
ATOM	40932	NE2	HIS	G	153	214.343	121.527	-46.185	1.00132.61	GS7
ATOM	40933	C	HIS	G	153	215.026	126.003	-45.085	1.00158.79	GS7
ATOM	40934	O	HIS	G	153	213.845	126.328	-44.947	1.00158.79	GS7
ATOM	40935	N	TYR	G	154	215.820	125.668	-44.070	1.00 96.18	GS7
ATOM	40936	CA	TYR	G	154	215.399	125.738	-42.681	1.00 96.18	GS7
ATOM	40937	CB	TYR	G	154	216.017	124.605	-41.869	1.00125.24	GS7
ATOM	40938	CG	TYR	G	154	215.591	123.211	-42.272	1.00125.24	GS7
ATOM	40939	CD1	TYR	G	154	216.434	122.121	-42.041	1.00125.24	GS7
ATOM	40940	CE1	TYR	G	154	216.060	120.823	-42.383	1.00125.24	GS7
ATOM	40941	CD2	TYR	G	154	214.350	122.968	-42.858	1.00125.24	GS7
ATOM	40942	CE2	TYR	G	154	213.960	121.664	-43.203	1.00125.24	GS7
ATOM	40943	CZ	TYR	G	154	214.827	120.598	-42.962	1.00125.24	GS7
ATOM	40944	OH	TYR	G	154	214.480	119.308	-43.303	1.00125.24	GS7
ATOM	40945	C	TYR	G	154	216.014	127.068	-42.243	1.00 96.18	GS7
ATOM	40946	O	TYR	G	154	216.516	127.205	-41.128	1.00 96.18	GS7
ATOM	40947	N	ARG	G	155	215.980	128.031	-43.165	1.00182.14	GS7
ATOM	40948	CA	ARG	G	155	216.521	129.382	-42.988	1.00182.14	GS7
ATOM	40949	CB	ARG	G	155	215.667	130.394	-43.761	1.00174.52	GS7
ATOM	40950	CG	ARG	G	155	216.210	130.753	-45.138	1.00174.52	GS7

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ATOM	40951	CD	ARG	G	155	217.492	131.559	-45.020	1.00174.52	GS7
ATOM	40952	NE	ARG	G	155	218.053	131.903	-46.324	1.00174.52	GS7
ATOM	40953	CZ	ARG	G	155	219.141	132.649	-46.497	1.00174.52	GS7
ATOM	40954	NH1	ARG	G	155	219.791	133.133	-45.446	1.00174.52	GS7
ATOM	40955	NH2	ARG	G	155	219.583	132.909	-47.721	1.00174.52	GS7
ATOM	40956	C	ARG	G	155	216.701	129.887	-41.567	1.00182.14	GS7
ATOM	40957	O	ARG	G	155	217.765	130.401	-41.225	1.00182.14	GS7
ATOM	40958	N	TRP	G	156	215.662	129.761	-40.747	1.00194.31	GS7
ATOM	40959	CA	TRP	G	156	215.732	130.224	-39.365	1.00194.31	GS7
ATOM	40960	CB	TRP	G	156	217.012	129.708	-38.707	1.00149.44	GS7
ATOM	40961	CG	TRP	G	156	216.998	129.657	-37.211	1.00149.44	GS7
ATOM	40962	CD2	TRP	G	156	217.438	128.566	-36.400	1.00149.44	GS7
ATOM	40963	CE2	TRP	G	156	217.300	128.962	-35.054	1.00149.44	GS7
ATOM	40964	CE3	TRP	G	156	217.940	127.288	-36.683	1.00149.44	GS7
ATOM	40965	CD1	TRP	G	156	216.618	130.645	-36.350	1.00149.44	GS7
ATOM	40966	NE1	TRP	G	156	216.797	130.237	-35.052	1.00149.44	GS7
ATOM	40967	CZ2	TRP	G	156	217.645	128.125	-33.989	1.00149.44	GS7
ATOM	40968	CZ3	TRP	G	156	218.281	126.460	-35.628	1.00149.44	GS7
ATOM	40969	CH2	TRP	G	156	218.132	126.879	-34.296	1.00149.44	GS7
ATOM	40970	C	TRP	G	156	215.754	131.750	-39.397	1.00194.31	GS7
ATOM	40971	O	TRP	G	156	215.750	132.305	-40.516	1.00194.31	GS7
ATOM	40972	OXT	TRP	G	156	215.782	132.371	-38.317	1.00149.44	GS7
TER	40972		TRP	G	156					GS7
ATOM	40973	CB	MET	H	1	140.598	114.195	-41.079	1.00108.94	HS8
ATOM	40974	CG	MET	H	1	139.170	114.728	-40.992	1.00108.94	HS8
ATOM	40975	SD	MET	H	1	137.948	113.389	-41.083	1.00108.94	HS8
ATOM	40976	CE	MET	H	1	138.284	112.690	-42.733	1.00108.94	HS8
ATOM	40977	C	MET	H	1	141.586	115.713	-39.368	1.00128.67	HS8
ATOM	40978	O	MET	H	1	142.536	115.602	-38.580	1.00128.67	HS8
ATOM	40979	N	MET	H	1	143.043	114.648	-41.103	1.00128.67	HS8
ATOM	40980	CA	MET	H	1	141.695	115.232	-40.814	1.00128.67	HS8
ATOM	40981	N	LEU	H	2	140.415	116.237	-39.024	1.00 74.37	HS8
ATOM	40982	CA	LEU	H	2	140.183	116.741	-37.679	1.00 74.37	HS8
ATOM	40983	CB	LEU	H	2	139.366	118.033	-37.749	1.00 78.75	HS8
ATOM	40984	CG	LEU	H	2	140.033	119.261	-37.134	1.00 78.75	HS8
ATOM	40985	CD1	LEU	H	2	139.111	120.478	-37.253	1.00 78.75	HS8
ATOM	40986	CD2	LEU	H	2	140.355	118.964	-35.679	1.00 78.75	HS8
ATOM	40987	C	LEU	H	2	139.478	115.703	-36.804	1.00 74.37	HS8
ATOM	40988	O	LEU	H	2	138.272	115.747	-36.597	1.00 74.37	HS8
ATOM	40989	N	THR	H	3	140.258	114.772	-36.281	1.00 68.75	HS8
ATOM	40990	CA	THR	H	3	139.742	113.702	-35.437	1.00 68.75	HS8
ATOM	40991	CB	THR	H	3	140.928	112.861	-34.890	1.00 69.82	HS8
ATOM	40992	OG1	THR	H	3	141.748	113.667	-34.032	1.00 69.82	HS8
ATOM	40993	CG2	THR	H	3	141.788	112.369	-36.048	1.00 69.82	HS8
ATOM	40994	C	THR	H	3	138.794	114.098	-34.277	1.00 68.75	HS8
ATOM	40995	O	THR	H	3	137.886	113.340	-33.942	1.00 68.75	HS8
ATOM	40996	N	ASP	H	4	138.984	115.264	-33.666	1.00 60.27	HS8
ATOM	40997	CA	ASP	H	4	138.105	115.670	-32.567	1.00 60.27	HS8
ATOM	40998	CB	ASP	H	4	138.705	115.241	-31.229	1.00 97.77	HS8
ATOM	40999	CG	ASP	H	4	137.738	115.424	-30.073	1.00 97.77	HS8
ATOM	41000	OD1	ASP	H	4	136.976	116.416	-30.076	1.00 97.77	HS8
ATOM	41001	OD2	ASP	H	4	137.749	114.583	-29.151	1.00 97.77	HS8
ATOM	41002	C	ASP	H	4	137.844	117.181	-32.545	1.00 60.27	HS8
ATOM	41003	O	ASP	H	4	138.584	117.944	-31.926	1.00 60.27	HS8
ATOM	41004	N	PRO	H	5	136.765	117.630	-33.201	1.00 63.01	HS8
ATOM	41005	CD	PRO	H	5	135.735	116.853	-33.905	1.00 67.89	HS8
ATOM	41006	CA	PRO	H	5	136.449	119.058	-33.234	1.00 63.01	HS8
ATOM	41007	CB	PRO	H	5	135.091	119.092	-33.913	1.00 67.89	HS8
ATOM	41008	CG	PRO	H	5	135.132	117.897	-34.802	1.00 67.89	HS8
ATOM	41009	C	PRO	H	5	136.416	119.681	-31.847	1.00 63.01	HS8
ATOM	41010	O	PRO	H	5	137.061	120.697	-31.595	1.00 63.01	HS8
ATOM	41011	N	ILE	H	6	135.662	119.067	-30.946	1.00 51.29	HS8
ATOM	41012	CA	ILE	H	6	135.552	119.579	-29.583	1.00 51.29	HS8
ATOM	41013	CB	ILE	H	6	134.721	118.647	-28.714	1.00 50.85	HS8
ATOM	41014	CG2	ILE	H	6	134.573	119.243	-27.329	1.00 50.85	HS8
ATOM	41015	CG1	ILE	H	6	133.364	118.416	-29.380	1.00 50.85	HS8
ATOM	41016	CD1	ILE	H	6	132.646	119.701	-29.774	1.00 50.85	HS8
ATOM	41017	C	ILE	H	6	136.914	119.730	-28.941	1.00 51.29	HS8
ATOM	41018	O	ILE	H	6	137.258	120.792	-28.415	1.00 51.29	HS8
ATOM	41019	N	ALA	H	7	137.677	118.647	-28.981	1.00 81.03	HS8
ATOM	41020	CA	ALA	H	7	139.020	118.649	-28.428	1.00 81.03	HS8
ATOM	41021	CB	ALA	H	7	139.719	117.322	-28.734	1.00 48.87	HS8
ATOM	41022	C	ALA	H	7	139.771	119.802	-29.079	1.00 81.03	HS8
ATOM	41023	O	ALA	H	7	140.426	120.601	-28.406	1.00 81.03	HS8
ATOM	41024	N	ASP	H	8	139.657	119.885	-30.397	1.00 68.33	HS8
ATOM	41025	CA	ASP	H	8	140.319	120.932	-31.133	1.00 68.33	HS8
ATOM	41026	CB	ASP	H	8	139.936	120.880	-32.599	1.00 83.50	HS8

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ATOM	41027	CG	ASP	H	8	140.562	122.001	-33.384	1.00	83.50	HS8
ATOM	41028	OD1	ASP	H	8	141.654	121.780	-33.954	1.00	83.50	HS8
ATOM	41029	OD2	ASP	H	8	139.974	123.107	-33.410	1.00	83.50	HS8
ATOM	41030	C	ASP	H	8	139.938	122.295	-30.588	1.00	68.33	HS8
ATOM	41031	O	ASP	H	8	140.791	123.028	-30.089	1.00	68.33	HS8
ATOM	41032	N	MET	H	9	138.655	122.633	-30.683	1.00	72.76	HS8
ATOM	41033	CA	MET	H	9	138.190	123.930	-30.221	1.00	72.76	HS8
ATOM	41034	CB	MET	H	9	136.674	123.988	-30.166	1.00	63.30	HS8
ATOM	41035	CG	MET	H	9	136.169	125.329	-29.656	1.00	63.30	HS8
ATOM	41036	SD	MET	H	9	134.407	125.286	-29.363	1.00	63.30	HS8
ATOM	41037	CE	MET	H	9	134.361	124.356	-27.819	1.00	63.30	HS8
ATOM	41038	C	MET	H	9	138.725	124.298	-28.856	1.00	72.76	HS8
ATOM	41039	O	MET	H	9	139.327	125.361	-28.683	1.00	72.76	HS8
ATOM	41040	N	LEU	H	10	138.501	123.427	-27.880	1.00	69.80	HS8
ATOM	41041	CA	LEU	H	10	138.965	123.703	-26.529	1.00	69.80	HS8
ATOM	41042	CB	LEU	H	10	138.801	122.459	-25.652	1.00	48.35	HS8
ATOM	41043	CG	LEU	H	10	137.364	121.922	-25.570	1.00	48.35	HS8
ATOM	41044	CD1	LEU	H	10	137.356	120.581	-24.876	1.00	48.35	HS8
ATOM	41045	CD2	LEU	H	10	136.474	122.905	-24.837	1.00	48.35	HS8
ATOM	41046	C	LEU	H	10	140.422	124.135	-26.583	1.00	69.80	HS8
ATOM	41047	O	LEU	H	10	140.813	125.131	-25.963	1.00	69.80	HS8
ATOM	41048	N	THR	H	11	141.210	123.401	-27.362	1.00	61.15	HS8
ATOM	41049	CA	THR	H	11	142.631	123.682	-27.507	1.00	61.15	HS8
ATOM	41050	CB	THR	H	11	143.329	122.597	-28.353	1.00	71.58	HS8
ATOM	41051	OG1	THR	H	11	143.244	121.334	-27.677	1.00	71.58	HS8
ATOM	41052	CG2	THR	H	11	144.785	122.937	-28.543	1.00	71.58	HS8
ATOM	41053	C	THR	H	11	142.937	125.058	-28.095	1.00	61.15	HS8
ATOM	41054	O	THR	H	11	143.813	125.757	-27.574	1.00	61.15	HS8
ATOM	41055	N	ARG	H	12	142.236	125.453	-29.165	1.00	59.30	HS8
ATOM	41056	CA	ARG	H	12	142.468	126.770	-29.764	1.00	59.30	HS8
ATOM	41057	CB	ARG	H	12	141.507	127.058	-30.899	1.00	55.38	HS8
ATOM	41058	CG	ARG	H	12	141.571	126.083	-32.039	1.00	55.38	HS8
ATOM	41059	CD	ARG	H	12	140.983	126.730	-33.283	1.00	55.38	HS8
ATOM	41060	NE	ARG	H	12	140.904	125.810	-34.413	1.00	55.38	HS8
ATOM	41061	CZ	ARG	H	12	140.956	126.198	-35.684	1.00	55.38	HS8
ATOM	41062	NH1	ARG	H	12	141.086	127.485	-35.976	1.00	55.38	HS8
ATOM	41063	NH2	ARG	H	12	140.895	125.309	-36.664	1.00	55.38	HS8
ATOM	41064	C	ARG	H	12	142.261	127.815	-28.690	1.00	59.30	HS8
ATOM	41065	O	ARG	H	12	143.102	128.697	-28.522	1.00	59.30	HS8
ATOM	41066	N	ILE	H	13	141.141	127.714	-27.968	1.00	48.56	HS8
ATOM	41067	CA	ILE	H	13	140.845	128.645	-26.874	1.00	48.56	HS8
ATOM	41068	CB	ILE	H	13	139.525	128.241	-26.100	1.00	34.22	HS8
ATOM	41069	CG2	ILE	H	13	139.310	129.114	-24.863	1.00	34.22	HS8
ATOM	41070	CG1	ILE	H	13	138.304	128.470	-26.994	1.00	34.22	HS8
ATOM	41071	CD1	ILE	H	13	137.285	127.352	-26.925	1.00	34.22	HS8
ATOM	41072	C	ILE	H	13	142.057	128.613	-25.931	1.00	48.56	HS8
ATOM	41073	O	ILE	H	13	142.612	129.671	-25.574	1.00	48.56	HS8
ATOM	41074	N	ARG	H	14	142.497	127.405	-25.565	1.00	51.08	HS8
ATOM	41075	CA	ARG	H	14	143.648	127.278	-24.670	1.00	51.08	HS8
ATOM	41076	CB	ARG	H	14	144.005	125.823	-24.373	1.00	62.61	HS8
ATOM	41077	CG	ARG	H	14	145.079	125.733	-23.289	1.00	62.61	HS8
ATOM	41078	CD	ARG	H	14	145.665	124.339	-23.079	1.00	62.61	HS8
ATOM	41079	NE	ARG	H	14	144.674	123.292	-22.845	1.00	62.61	HS8
ATOM	41080	CZ	ARG	H	14	144.109	122.584	-23.818	1.00	62.61	HS8
ATOM	41081	NH1	ARG	H	14	144.444	122.825	-25.080	1.00	62.61	HS8
ATOM	41082	NH2	ARG	H	14	143.234	121.623	-23.539	1.00	62.61	HS8
ATOM	41083	C	ARG	H	14	144.886	127.933	-25.234	1.00	51.08	HS8
ATOM	41084	O	ARG	H	14	145.559	128.694	-24.545	1.00	51.08	HS8
ATOM	41085	N	ASN	H	15	145.204	127.626	-26.484	1.00	74.67	HS8
ATOM	41086	CA	ASN	H	15	146.388	128.210	-27.081	1.00	74.67	HS8
ATOM	41087	CB	ASN	H	15	146.683	127.568	-28.440	1.00	68.29	HS8
ATOM	41088	CG	ASN	H	15	147.160	126.119	-28.326	1.00	68.29	HS8
ATOM	41089	OD1	ASN	H	15	148.049	125.793	-27.537	1.00	68.29	HS8
ATOM	41090	ND2	ASN	H	15	146.577	125.248	-29.137	1.00	68.29	HS8
ATOM	41091	C	ASN	H	15	146.296	129.733	-27.228	1.00	74.67	HS8
ATOM	41092	O	ASN	H	15	147.275	130.440	-26.968	1.00	74.67	HS8
ATOM	41093	N	ALA	H	16	145.129	130.245	-27.617	1.00	43.51	HS8
ATOM	41094	CA	ALA	H	16	144.975	131.686	-27.806	1.00	43.51	HS8
ATOM	41095	CB	ALA	H	16	143.676	131.982	-28.518	1.00	35.72	HS8
ATOM	41096	C	ALA	H	16	145.046	132.471	-26.508	1.00	43.51	HS8
ATOM	41097	O	ALA	H	16	145.546	133.597	-26.482	1.00	43.51	HS8
ATOM	41098	N	THR	H	17	144.536	131.895	-25.427	1.00	51.36	HS8
ATOM	41099	CA	THR	H	17	144.587	132.593	-24.149	1.00	51.36	HS8
ATOM	41100	CB	THR	H	17	143.700	131.920	-23.108	1.00	48.35	HS8
ATOM	41101	OG1	THR	H	17	143.876	130.499	-23.166	1.00	48.35	HS8
ATOM	41102	CG2	THR	H	17	142.256	132.259	-23.377	1.00	48.35	HS8
ATOM	41103	C	THR	H	17	146.009	132.653	-23.624	1.00	51.36	HS8

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ATOM	41104	O	THR	H	17	146.428	133.663	-23.068	1.00	51.36	HS8
ATOM	41105	N	ARG	H	18	146.759	131.576	-23.812	1.00	66.27	HS8
ATOM	41106	CA	ARG	H	18	148.129	131.553	-23.346	1.00	66.27	HS8
ATOM	41107	CB	ARG	H	18	148.766	130.209	-23.671	1.00	96.24	HS8
ATOM	41108	CG	ARG	H	18	148.514	129.172	-22.603	1.00	96.24	HS8
ATOM	41109	CD	ARG	H	18	147.081	129.239	-22.136	1.00	96.24	HS8
ATOM	41110	NE	ARG	H	18	146.892	128.611	-20.834	1.00	96.24	HS8
ATOM	41111	CZ	ARG	H	18	145.784	128.722	-20.107	1.00	96.24	HS8
ATOM	41112	NH1	ARG	H	18	144.758	129.441	-20.553	1.00	96.24	HS8
ATOM	41113	NH2	ARG	H	18	145.705	128.115	-18.933	1.00	96.24	HS8
ATOM	41114	C	ARG	H	18	148.945	132.695	-23.941	1.00	66.27	HS8
ATOM	41115	O	ARG	H	18	149.899	133.166	-23.325	1.00	66.27	HS8
ATOM	41116	N	VAL	H	19	148.566	133.150	-25.133	1.00	80.73	HS8
ATOM	41117	CA	VAL	H	19	149.281	134.247	-25.782	1.00	80.73	HS8
ATOM	41118	CB	VAL	H	19	149.671	133.890	-27.220	1.00	82.68	HS8
ATOM	41119	CG1	VAL	H	19	150.543	132.638	-27.222	1.00	82.68	HS8
ATOM	41120	CG2	VAL	H	19	148.434	133.677	-28.052	1.00	82.68	HS8
ATOM	41121	C	VAL	H	19	148.424	135.506	-25.783	1.00	80.73	HS8
ATOM	41122	O	VAL	H	19	148.709	136.480	-26.478	1.00	80.73	HS8
ATOM	41123	N	TYR	H	20	147.340	135.449	-25.024	1.00	52.90	HS8
ATOM	41124	CA	TYR	H	20	146.458	136.588	-24.848	1.00	52.90	HS8
ATOM	41125	CB	TYR	H	20	147.248	137.676	-24.154	1.00	51.82	HS8
ATOM	41126	CG	TYR	H	20	147.619	137.235	-22.786	1.00	51.82	HS8
ATOM	41127	CD1	TYR	H	20	146.713	137.360	-21.742	1.00	51.82	HS8
ATOM	41128	CE1	TYR	H	20	147.022	136.912	-20.463	1.00	51.82	HS8
ATOM	41129	CD2	TYR	H	20	148.854	136.645	-22.532	1.00	51.82	HS8
ATOM	41130	CE2	TYR	H	20	149.179	136.188	-21.248	1.00	51.82	HS8
ATOM	41131	CZ	TYR	H	20	148.251	136.330	-20.219	1.00	51.82	HS8
ATOM	41132	OH	TYR	H	20	148.532	135.909	-18.945	1.00	51.82	HS8
ATOM	41133	C	TYR	H	20	145.693	137.197	-25.986	1.00	52.90	HS8
ATOM	41134	O	TYR	H	20	145.358	138.373	-25.914	1.00	52.90	HS8
ATOM	41135	N	LYS	H	21	145.387	136.427	-27.019	1.00	54.55	HS8
ATOM	41136	CA	LYS	H	21	144.620	136.997	-28.124	1.00	54.55	HS8
ATOM	41137	CB	LYS	H	21	144.272	135.913	-29.149	1.00	78.99	HS8
ATOM	41138	CG	LYS	H	21	145.414	134.991	-29.467	1.00	78.99	HS8
ATOM	41139	CD	LYS	H	21	146.700	135.775	-29.693	1.00	78.99	HS8
ATOM	41140	CE	LYS	H	21	147.231	135.602	-31.109	1.00	78.99	HS8
ATOM	41141	NZ	LYS	H	21	146.251	136.099	-32.119	1.00	78.99	HS8
ATOM	41142	C	LYS	H	21	143.320	137.627	-27.584	1.00	54.55	HS8
ATOM	41143	O	LYS	H	21	142.835	137.251	-26.513	1.00	54.55	HS8
ATOM	41144	N	GLU	H	22	142.768	138.599	-28.297	1.00	69.64	HS8
ATOM	41145	CA	GLU	H	22	141.513	139.173	-27.854	1.00	69.64	HS8
ATOM	41146	CB	GLU	H	22	141.366	140.600	-28.371	1.00	143.38	HS8
ATOM	41147	CG	GLU	H	22	140.250	141.369	-27.688	1.00	143.38	HS8
ATOM	41148	CD	GLU	H	22	140.122	142.796	-28.189	1.00	143.38	HS8
ATOM	41149	OE1	GLU	H	22	139.863	142.979	-29.399	1.00	143.38	HS8
ATOM	41150	OE2	GLU	H	22	140.279	143.732	-27.373	1.00	143.38	HS8
ATOM	41151	C	GLU	H	22	140.406	138.262	-28.430	1.00	69.64	HS8
ATOM	41152	O	GLU	H	22	139.503	137.815	-27.712	1.00	69.64	HS8
ATOM	41153	N	SER	H	23	140.508	137.967	-29.727	1.00	54.49	HS8
ATOM	41154	CA	SER	H	23	139.550	137.120	-30.440	1.00	54.49	HS8
ATOM	41155	CB	SER	H	23	139.219	137.776	-31.788	1.00	86.70	HS8
ATOM	41156	OG	SER	H	23	138.353	136.981	-32.581	1.00	86.70	HS8
ATOM	41157	C	SER	H	23	140.153	135.726	-30.668	1.00	54.49	HS8
ATOM	41158	O	SER	H	23	141.125	135.360	-30.021	1.00	54.49	HS8
ATOM	41159	N	THR	H	24	139.563	134.960	-31.588	1.00	78.64	HS8
ATOM	41160	CA	THR	H	24	140.016	133.609	-31.962	1.00	78.64	HS8
ATOM	41161	CB	THR	H	24	140.516	132.796	-30.739	1.00	80.05	HS8
ATOM	41162	OG1	THR	H	24	140.998	131.520	-31.178	1.00	80.05	HS8
ATOM	41163	CG2	THR	H	24	139.402	132.586	-29.736	1.00	80.05	HS8
ATOM	41164	C	THR	H	24	138.907	132.815	-32.679	1.00	78.64	HS8
ATOM	41165	O	THR	H	24	137.825	132.590	-32.134	1.00	78.64	HS8
ATOM	41166	N	ASP	H	25	139.192	132.395	-33.909	1.00	70.96	HS8
ATOM	41167	CA	ASP	H	25	138.237	131.655	-34.726	1.00	70.96	HS8
ATOM	41168	CB	ASP	H	25	138.484	131.961	-36.195	1.00	100.85	HS8
ATOM	41169	CG	ASP	H	25	138.401	133.437	-36.492	1.00	100.85	HS8
ATOM	41170	OD1	ASP	H	25	138.627	134.238	-35.559	1.00	100.85	HS8
ATOM	41171	OD2	ASP	H	25	138.123	133.798	-37.657	1.00	100.85	HS8
ATOM	41172	C	ASP	H	25	138.288	130.149	-34.521	1.00	70.96	HS8
ATOM	41173	O	ASP	H	25	139.308	129.593	-34.121	1.00	70.96	HS8
ATOM	41174	N	VAL	H	26	137.168	129.497	-34.811	1.00	68.92	HS8
ATOM	41175	CA	VAL	H	26	137.031	128.052	-34.682	1.00	68.92	HS8
ATOM	41176	CB	VAL	H	26	136.798	127.626	-33.192	1.00	39.00	HS8
ATOM	41177	CG1	VAL	H	26	136.319	128.809	-32.385	1.00	39.00	HS8
ATOM	41178	CG2	VAL	H	26	135.774	126.486	-33.104	1.00	39.00	HS8
ATOM	41179	C	VAL	H	26	135.847	127.650	-35.547	1.00	68.92	HS8
ATOM	41180	O	VAL	H	26	134.778	128.253	-35.468	1.00	68.92	HS8

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ATOM	41181	N	PRO	H	27	136.037	126.636	-36.401	1.00	67.90	HS8
ATOM	41182	CD	PRO	H	27	137.282	125.859	-36.458	1.00	67.77	HS8
ATOM	41183	CA	PRO	H	27	135.054	126.079	-37.330	1.00	67.90	HS8
ATOM	41184	CB	PRO	H	27	135.715	124.790	-37.778	1.00	67.77	HS8
ATOM	41185	CG	PRO	H	27	137.142	125.143	-37.773	1.00	67.77	HS8
ATOM	41186	C	PRO	H	27	133.718	125.833	-36.646	1.00	67.90	HS8
ATOM	41187	O	PRO	H	27	133.660	125.112	-35.646	1.00	67.90	HS8
ATOM	41188	N	ALA	H	28	132.656	126.415	-37.210	1.00	79.33	HS8
ATOM	41189	CA	ALA	H	28	131.304	126.330	-36.660	1.00	79.33	HS8
ATOM	41190	CB	ALA	H	28	130.429	127.396	-37.310	1.00	175.33	HS8
ATOM	41191	C	ALA	H	28	130.598	124.975	-36.732	1.00	79.33	HS8
ATOM	41192	O	ALA	H	28	130.694	124.258	-37.730	1.00	79.33	HS8
ATOM	41193	N	SER	H	29	129.882	124.652	-35.654	1.00	73.93	HS8
ATOM	41194	CA	SER	H	29	129.103	123.414	-35.525	1.00	73.93	HS8
ATOM	41195	CB	SER	H	29	129.986	122.237	-35.108	1.00	78.85	HS8
ATOM	41196	OG	SER	H	29	130.331	122.312	-33.731	1.00	78.85	HS8
ATOM	41197	C	SER	H	29	128.114	123.685	-34.404	1.00	73.93	HS8
ATOM	41198	O	SER	H	29	128.467	124.371	-33.433	1.00	73.93	HS8
ATOM	41199	N	ARG	H	30	126.894	123.158	-34.522	1.00	59.98	HS8
ATOM	41200	CA	ARG	H	30	125.886	123.376	-33.480	1.00	59.98	HS8
ATOM	41201	CB	ARG	H	30	124.644	122.502	-33.705	1.00	124.70	HS8
ATOM	41202	CG	ARG	H	30	123.727	122.921	-34.851	1.00	124.70	HS8
ATOM	41203	CD	ARG	H	30	122.976	124.222	-34.567	1.00	124.70	HS8
ATOM	41204	NE	ARG	H	30	122.115	124.598	-35.691	1.00	124.70	HS8
ATOM	41205	CZ	ARG	H	30	121.497	125.772	-35.811	1.00	124.70	HS8
ATOM	41206	NH1	ARG	H	30	121.640	126.697	-34.871	1.00	124.70	HS8
ATOM	41207	NH2	ARG	H	30	120.744	126.027	-36.876	1.00	124.70	HS8
ATOM	41208	C	ARG	H	30	126.505	123.006	-32.134	1.00	59.98	HS8
ATOM	41209	O	ARG	H	30	126.579	123.823	-31.209	1.00	59.98	HS8
ATOM	41210	N	PHE	H	31	126.974	121.766	-32.053	1.00	61.22	HS8
ATOM	41211	CA	PHE	H	31	127.572	121.254	-30.836	1.00	61.22	HS8
ATOM	41212	CB	PHE	H	31	128.193	119.886	-31.114	1.00	74.37	HS8
ATOM	41213	CG	PHE	H	31	128.594	119.147	-29.874	1.00	74.37	HS8
ATOM	41214	CD1	PHE	H	31	127.771	119.157	-28.748	1.00	74.37	HS8
ATOM	41215	CD2	PHE	H	31	129.766	118.417	-29.839	1.00	74.37	HS8
ATOM	41216	CE1	PHE	H	31	128.112	118.449	-27.606	1.00	74.37	HS8
ATOM	41217	CE2	PHE	H	31	130.114	117.704	-28.701	1.00	74.37	HS8
ATOM	41218	CZ	PHE	H	31	129.285	117.719	-27.581	1.00	74.37	HS8
ATOM	41219	C	PHE	H	31	128.610	122.177	-30.204	1.00	61.22	HS8
ATOM	41220	O	PHE	H	31	128.606	122.396	-28.987	1.00	61.22	HS8
ATOM	41221	N	LYS	H	32	129.504	122.714	-31.026	1.00	66.33	HS8
ATOM	41222	CA	LYS	H	32	130.538	123.594	-30.506	1.00	66.33	HS8
ATOM	41223	CB	LYS	H	32	131.585	123.890	-31.588	1.00	88.13	HS8
ATOM	41224	CG	LYS	H	32	132.944	123.250	-31.309	1.00	88.13	HS8
ATOM	41225	CD	LYS	H	32	133.955	123.462	-32.442	1.00	88.13	HS8
ATOM	41226	CE	LYS	H	32	133.625	122.613	-33.672	1.00	88.13	HS8
ATOM	41227	NZ	LYS	H	32	134.706	122.623	-34.713	1.00	88.13	HS8
ATOM	41228	C	LYS	H	32	129.884	124.871	-30.021	1.00	66.33	HS8
ATOM	41229	O	LYS	H	32	130.229	125.400	-28.953	1.00	66.33	HS8
ATOM	41230	N	GLU	H	33	128.922	125.351	-30.806	1.00	73.35	HS8
ATOM	41231	CA	GLU	H	33	128.204	126.568	-30.464	1.00	73.35	HS8
ATOM	41232	CB	GLU	H	33	127.238	126.948	-31.592	1.00	97.55	HS8
ATOM	41233	CG	GLU	H	33	126.502	128.258	-31.368	1.00	97.55	HS8
ATOM	41234	CD	GLU	H	33	125.806	128.773	-32.621	1.00	97.55	HS8
ATOM	41235	OE1	GLU	H	33	125.230	127.951	-33.372	1.00	97.55	HS8
ATOM	41236	OE2	GLU	H	33	125.825	130.007	-32.844	1.00	97.55	HS8
ATOM	41237	C	GLU	H	33	127.462	126.351	-29.145	1.00	73.35	HS8
ATOM	41238	O	GLU	H	33	127.344	127.270	-28.339	1.00	73.35	HS8
ATOM	41239	N	GLU	H	34	126.981	125.132	-28.915	1.00	65.23	HS8
ATOM	41240	CA	GLU	H	34	126.284	124.829	-27.668	1.00	65.23	HS8
ATOM	41241	CB	GLU	H	34	125.699	123.417	-27.697	1.00	99.80	HS8
ATOM	41242	CG	GLU	H	34	124.487	123.275	-28.600	1.00	99.80	HS8
ATOM	41243	CD	GLU	H	34	123.322	124.152	-28.164	1.00	99.80	HS8
ATOM	41244	OE1	GLU	H	34	122.336	124.229	-28.930	1.00	99.80	HS8
ATOM	41245	OE2	GLU	H	34	123.391	124.755	-27.064	1.00	99.80	HS8
ATOM	41246	C	GLU	H	34	127.264	124.947	-26.509	1.00	65.23	HS8
ATOM	41247	O	GLU	H	34	126.988	125.607	-25.504	1.00	65.23	HS8
ATOM	41248	N	ILE	H	35	128.420	124.315	-26.655	1.00	67.84	HS8
ATOM	41249	CA	ILE	H	35	129.427	124.368	-25.612	1.00	67.84	HS8
ATOM	41250	CB	ILE	H	35	130.653	123.558	-26.035	1.00	45.72	HS8
ATOM	41251	CG2	ILE	H	35	131.609	123.381	-24.864	1.00	45.72	HS8
ATOM	41252	CG1	ILE	H	35	130.183	122.194	-26.526	1.00	45.72	HS8
ATOM	41253	CD1	ILE	H	35	131.315	121.251	-26.848	1.00	45.72	HS8
ATOM	41254	C	ILE	H	35	129.824	125.819	-25.311	1.00	67.84	HS8
ATOM	41255	O	ILE	H	35	129.888	126.239	-24.155	1.00	67.84	HS8
ATOM	41256	N	LEU	H	36	130.076	126.590	-26.355	1.00	67.88	HS8
ATOM	41257	CA	LEU	H	36	130.462	127.974	-26.157	1.00	67.88	HS8

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ATOM	41258	CB	LEU	H	36	130.675	128.648	-27.512	1.00	65.66	HS8
ATOM	41259	CG	LEU	H	36	131.939	128.292	-28.305	1.00	65.66	HS8
ATOM	41260	CD1	LEU	H	36	131.884	129.012	-29.643	1.00	65.66	HS8
ATOM	41261	CD2	LEU	H	36	133.198	128.703	-27.532	1.00	65.66	HS8
ATOM	41262	C	LEU	H	36	129.428	128.748	-25.334	1.00	67.88	HS8
ATOM	41263	O	LEU	H	36	129.798	129.592	-24.496	1.00	67.88	HS8
ATOM	41264	N	ARG	H	37	128.143	128.453	-25.584	1.00	56.69	HS8
ATOM	41265	CA	ARG	H	37	127.019	129.090	-24.884	1.00	56.69	HS8
ATOM	41266	CB	ARG	H	37	125.708	128.369	-25.201	1.00	85.74	HS8
ATOM	41267	CG	ARG	H	37	124.606	129.266	-25.717	1.00	85.74	HS8
ATOM	41268	CD	ARG	H	37	123.252	128.589	-25.615	1.00	85.74	HS8
ATOM	41269	NE	ARG	H	37	122.295	129.158	-26.561	1.00	85.74	HS8
ATOM	41270	CZ	ARG	H	37	121.025	128.769	-26.667	1.00	85.74	HS8
ATOM	41271	NH1	ARG	H	37	120.573	127.811	-25.865	1.00	85.74	HS8
ATOM	41272	NH2	ARG	H	37	120.216	129.309	-27.589	1.00	85.74	HS8
ATOM	41273	C	ARG	H	37	127.272	129.031	-23.377	1.00	56.69	HS8
ATOM	41274	O	ARG	H	37	127.065	130.005	-22.656	1.00	56.69	HS8
ATOM	41275	N	ILE	H	38	127.724	127.871	-22.911	1.00	57.01	HS8
ATOM	41276	CA	ILE	H	38	128.027	127.683	-21.504	1.00	57.01	HS8
ATOM	41277	CB	ILE	H	38	128.292	126.205	-21.169	1.00	66.40	HS8
ATOM	41278	CG2	ILE	H	38	129.002	126.097	-19.841	1.00	66.40	HS8
ATOM	41279	CG1	ILE	H	38	126.984	125.433	-21.120	1.00	66.40	HS8
ATOM	41280	CD1	ILE	H	38	126.235	125.469	-22.407	1.00	66.40	HS8
ATOM	41281	C	ILE	H	38	129.276	128.463	-21.153	1.00	57.01	HS8
ATOM	41282	O	ILE	H	38	129.284	129.208	-20.177	1.00	57.01	HS8
ATOM	41283	N	LEU	H	39	130.335	128.286	-21.939	1.00	71.34	HS8
ATOM	41284	CA	LEU	H	39	131.578	128.989	-21.645	1.00	71.34	HS8
ATOM	41285	CB	LEU	H	39	132.632	128.779	-22.744	1.00	63.46	HS8
ATOM	41286	CG	LEU	H	39	133.436	127.483	-22.631	1.00	63.46	HS8
ATOM	41287	CD1	LEU	H	39	133.947	127.301	-21.207	1.00	63.46	HS8
ATOM	41288	CD2	LEU	H	39	132.540	126.328	-23.010	1.00	63.46	HS8
ATOM	41289	C	LEU	H	39	131.315	130.467	-21.452	1.00	71.34	HS8
ATOM	41290	O	LEU	H	39	132.059	131.151	-20.749	1.00	71.34	HS8
ATOM	41291	N	ALA	H	40	130.254	130.962	-22.074	1.00	60.84	HS8
ATOM	41292	CA	ALA	H	40	129.925	132.366	-21.917	1.00	60.84	HS8
ATOM	41293	CB	ALA	H	40	129.196	132.856	-23.137	1.00	63.74	HS8
ATOM	41294	C	ALA	H	40	129.059	132.537	-20.660	1.00	60.84	HS8
ATOM	41295	O	ALA	H	40	129.451	133.201	-19.699	1.00	60.84	HS8
ATOM	41296	N	ARG	H	41	127.884	131.920	-20.672	1.00	64.90	HS8
ATOM	41297	CA	ARG	H	41	126.973	131.984	-19.539	1.00	64.90	HS8
ATOM	41298	CB	ARG	H	41	125.896	130.907	-19.671	1.00	80.03	HS8
ATOM	41299	CG	ARG	H	41	124.880	130.874	-18.544	1.00	80.03	HS8
ATOM	41300	CD	ARG	H	41	124.034	129.638	-18.678	1.00	80.03	HS8
ATOM	41301	NE	ARG	H	41	123.493	129.514	-20.030	1.00	80.03	HS8
ATOM	41302	CZ	ARG	H	41	123.289	128.350	-20.651	1.00	80.03	HS8
ATOM	41303	NH1	ARG	H	41	123.586	127.205	-20.040	1.00	80.03	HS8
ATOM	41304	NH2	ARG	H	41	122.784	128.324	-21.885	1.00	80.03	HS8
ATOM	41305	C	ARG	H	41	127.733	131.771	-18.238	1.00	64.90	HS8
ATOM	41306	O	ARG	H	41	127.390	132.347	-17.207	1.00	64.90	HS8
ATOM	41307	N	GLU	H	42	128.768	130.945	-18.283	1.00	66.73	HS8
ATOM	41308	CA	GLU	H	42	129.527	130.682	-17.082	1.00	66.73	HS8
ATOM	41309	CB	GLU	H	42	130.115	129.281	-17.137	1.00	109.59	HS8
ATOM	41310	CG	GLU	H	42	129.100	128.212	-16.787	1.00	109.59	HS8
ATOM	41311	CD	GLU	H	42	128.418	128.486	-15.452	1.00	109.59	HS8
ATOM	41312	OE1	GLU	H	42	129.118	128.906	-14.503	1.00	109.59	HS8
ATOM	41313	OE2	GLU	H	42	127.188	128.273	-15.348	1.00	109.59	HS8
ATOM	41314	C	GLU	H	42	130.604	131.721	-16.821	1.00	66.73	HS8
ATOM	41315	O	GLU	H	42	131.274	131.694	-15.781	1.00	66.73	HS8
ATOM	41316	N	GLY	H	43	130.769	132.634	-17.770	1.00	68.66	HS8
ATOM	41317	CA	GLY	H	43	131.742	133.698	-17.604	1.00	68.66	HS8
ATOM	41318	C	GLY	H	43	133.190	133.431	-17.964	1.00	68.66	HS8
ATOM	41319	O	GLY	H	43	134.054	134.247	-17.646	1.00	68.66	HS8
ATOM	41320	N	PHE	H	44	133.468	132.310	-18.625	1.00	71.36	HS8
ATOM	41321	CA	PHE	H	44	134.836	131.977	-19.024	1.00	71.36	HS8
ATOM	41322	CB	PHE	H	44	134.970	130.469	-19.243	1.00	63.51	HS8
ATOM	41323	CG	PHE	H	44	134.918	129.678	-17.970	1.00	63.51	HS8
ATOM	41324	CD1	PHE	H	44	135.844	129.911	-16.960	1.00	63.51	HS8
ATOM	41325	CD2	PHE	H	44	133.947	128.706	-17.776	1.00	63.51	HS8
ATOM	41326	CE1	PHE	H	44	135.802	129.190	-15.783	1.00	63.51	HS8
ATOM	41327	CE2	PHE	H	44	133.899	127.980	-16.597	1.00	63.51	HS8
ATOM	41328	CZ	PHE	H	44	134.826	128.223	-15.602	1.00	63.51	HS8
ATOM	41329	C	PHE	H	44	135.258	132.721	-20.279	1.00	71.36	HS8
ATOM	41330	O	PHE	H	44	136.423	132.721	-20.654	1.00	71.36	HS8
ATOM	41331	N	ILE	H	45	134.300	133.352	-20.935	1.00	64.12	HS8
ATOM	41332	CA	ILE	H	45	134.603	134.110	-22.127	1.00	64.12	HS8
ATOM	41333	CB	ILE	H	45	134.414	133.281	-23.399	1.00	35.05	HS8
ATOM	41334	CG2	ILE	H	45	135.199	132.004	-23.287	1.00	35.05	HS8

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ATOM	41335	CG1	ILE	H	45	132.929	133.013	-23.642	1.00	35.05	HS8
ATOM	41336	CD1	ILE	H	45	132.667	132.039	-24.802	1.00	35.05	HS8
ATOM	41337	C	ILE	H	45	133.695	135.310	-22.220	1.00	64.12	HS8
ATOM	41338	O	ILE	H	45	132.595	135.320	-21.668	1.00	64.12	HS8
ATOM	41339	N	LYS	H	46	134.163	136.333	-22.917	1.00	72.16	HS8
ATOM	41340	CA	LYS	H	46	133.355	137.511	-23.084	1.00	72.16	HS8
ATOM	41341	CB	LYS	H	46	134.134	138.605	-23.808	1.00	80.53	HS8
ATOM	41342	CG	LYS	H	46	135.195	139.284	-22.962	1.00	80.53	HS8
ATOM	41343	CD	LYS	H	46	135.152	140.796	-23.157	1.00	80.53	HS8
ATOM	41344	CE	LYS	H	46	136.347	141.472	-22.509	1.00	80.53	HS8
ATOM	41345	NZ	LYS	H	46	137.627	141.077	-23.174	1.00	80.53	HS8
ATOM	41346	C	LYS	H	46	132.156	137.092	-23.908	1.00	72.16	HS8
ATOM	41347	O	LYS	H	46	131.137	137.763	-23.909	1.00	72.16	HS8
ATOM	41348	N	GLY	H	47	132.268	135.966	-24.597	1.00	66.39	HS8
ATOM	41349	CA	GLY	H	47	131.160	135.516	-25.416	1.00	66.39	HS8
ATOM	41350	C	GLY	H	47	131.643	135.156	-26.803	1.00	66.39	HS8
ATOM	41351	O	GLY	H	47	132.849	135.115	-27.048	1.00	66.39	HS8
ATOM	41352	N	TYR	H	48	130.727	134.913	-27.726	1.00	63.46	HS8
ATOM	41353	CA	TYR	H	48	131.151	134.537	-29.059	1.00	63.46	HS8
ATOM	41354	CB	TYR	H	48	131.272	133.030	-29.130	1.00	79.44	HS8
ATOM	41355	CG	TYR	H	48	129.923	132.387	-29.233	1.00	79.44	HS8
ATOM	41356	CD1	TYR	H	48	129.330	132.176	-30.477	1.00	79.44	HS8
ATOM	41357	CE1	TYR	H	48	128.038	131.682	-30.585	1.00	79.44	HS8
ATOM	41358	CD2	TYR	H	48	129.192	132.081	-28.090	1.00	79.44	HS8
ATOM	41359	CE2	TYR	H	48	127.896	131.584	-28.182	1.00	79.44	HS8
ATOM	41360	CZ	TYR	H	48	127.321	131.389	-29.435	1.00	79.44	HS8
ATOM	41361	OH	TYR	H	48	126.027	130.926	-29.543	1.00	79.44	HS8
ATOM	41362	C	TYR	H	48	130.119	134.971	-30.070	1.00	63.46	HS8
ATOM	41363	O	TYR	H	48	129.013	135.335	-29.694	1.00	63.46	HS8
ATOM	41364	N	GLU	H	49	130.470	134.902	-31.353	1.00	56.40	HS8
ATOM	41365	CA	GLU	H	49	129.536	135.255	-32.418	1.00	56.40	HS8
ATOM	41366	CB	GLU	H	49	129.495	136.764	-32.634	1.00	113.46	HS8
ATOM	41367	CG	GLU	H	49	130.762	137.350	-33.167	1.00	113.46	HS8
ATOM	41368	CD	GLU	H	49	130.610	138.824	-33.441	1.00	113.46	HS8
ATOM	41369	OE1	GLU	H	49	129.687	139.184	-34.199	1.00	113.46	HS8
ATOM	41370	OE2	GLU	H	49	131.404	139.623	-32.900	1.00	113.46	HS8
ATOM	41371	C	GLU	H	49	129.888	134.546	-33.723	1.00	56.40	HS8
ATOM	41372	O	GLU	H	49	131.052	134.215	-33.966	1.00	56.40	HS8
ATOM	41373	N	ARG	H	50	128.867	134.278	-34.534	1.00	79.25	HS8
ATOM	41374	CA	ARG	H	50	129.052	133.615	-35.818	1.00	79.25	HS8
ATOM	41375	CB	ARG	H	50	127.706	133.222	-36.398	1.00	83.28	HS8
ATOM	41376	CG	ARG	H	50	126.932	132.269	-35.538	1.00	83.28	HS8
ATOM	41377	CD	ARG	H	50	125.550	132.077	-36.114	1.00	83.28	HS8
ATOM	41378	NE	ARG	H	50	124.951	130.817	-35.690	1.00	83.28	HS8
ATOM	41379	CZ	ARG	H	50	123.798	130.342	-36.158	1.00	83.28	HS8
ATOM	41380	NH1	ARG	H	50	123.116	131.027	-37.068	1.00	83.28	HS8
ATOM	41381	NH2	ARG	H	50	123.331	129.175	-35.725	1.00	83.28	HS8
ATOM	41382	C	ARG	H	50	129.753	134.588	-36.756	1.00	79.25	HS8
ATOM	41383	O	ARG	H	50	129.417	135.770	-36.808	1.00	79.25	HS8
ATOM	41384	N	VAL	H	51	130.724	134.086	-37.505	1.00	74.89	HS8
ATOM	41385	CA	VAL	H	51	131.498	134.921	-38.408	1.00	74.89	HS8
ATOM	41386	CB	VAL	H	51	132.817	135.333	-37.710	1.00	85.48	HS8
ATOM	41387	CG1	VAL	H	51	133.758	136.007	-38.675	1.00	85.48	HS8
ATOM	41388	CG2	VAL	H	51	132.511	136.268	-36.572	1.00	85.48	HS8
ATOM	41389	C	VAL	H	51	131.799	134.137	-39.673	1.00	74.89	HS8
ATOM	41390	O	VAL	H	51	131.651	132.919	-39.692	1.00	74.89	HS8
ATOM	41391	N	ASP	H	52	132.200	134.829	-40.737	1.00	78.90	HS8
ATOM	41392	CA	ASP	H	52	132.542	134.155	-41.990	1.00	78.90	HS8
ATOM	41393	CB	ASP	H	52	131.563	134.539	-43.109	1.00	109.31	HS8
ATOM	41394	CG	ASP	H	52	130.443	133.520	-43.278	1.00	109.31	HS8
ATOM	41395	OD1	ASP	H	52	129.692	133.283	-42.311	1.00	109.31	HS8
ATOM	41396	OD2	ASP	H	52	130.314	132.949	-44.379	1.00	109.31	HS8
ATOM	41397	C	ASP	H	52	133.976	134.432	-42.440	1.00	78.90	HS8
ATOM	41398	O	ASP	H	52	134.320	135.544	-42.840	1.00	78.90	HS8
ATOM	41399	N	VAL	H	53	134.810	133.403	-42.353	1.00	79.74	HS8
ATOM	41400	CA	VAL	H	53	136.200	133.501	-42.764	1.00	79.74	HS8
ATOM	41401	CB	VAL	H	53	137.142	132.980	-41.664	1.00	79.36	HS8
ATOM	41402	CG1	VAL	H	53	138.483	132.619	-42.258	1.00	79.36	HS8
ATOM	41403	CG2	VAL	H	53	137.322	134.051	-40.598	1.00	79.36	HS8
ATOM	41404	C	VAL	H	53	136.389	132.696	-44.044	1.00	79.74	HS8
ATOM	41405	O	VAL	H	53	136.061	131.510	-44.106	1.00	79.74	HS8
ATOM	41406	N	ASP	H	54	136.910	133.368	-45.064	1.00	107.59	HS8
ATOM	41407	CA	ASP	H	54	137.142	132.772	-46.372	1.00	107.59	HS8
ATOM	41408	CB	ASP	H	54	138.371	131.858	-46.346	1.00	197.42	HS8
ATOM	41409	CG	ASP	H	54	138.825	131.457	-47.742	1.00	197.42	HS8
ATOM	41410	OD1	ASP	H	54	139.161	132.357	-48.542	1.00	197.42	HS8
ATOM	41411	OD2	ASP	H	54	138.842	130.245	-48.043	1.00	197.42	HS8

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ATOM	41412	C	ASP	H	54	135.929	131.997	-46.895	1.00107.59	HS8
ATOM	41413	O	ASP	H	54	136.068	130.950	-47.537	1.00107.59	HS8
ATOM	41414	N	GLY	H	55	134.737	132.513	-46.613	1.00 84.69	HS8
ATOM	41415	CA	GLY	H	55	133.529	131.870	-47.100	1.00 84.69	HS8
ATOM	41416	C	GLY	H	55	132.875	130.867	-46.173	1.00 84.69	HS8
ATOM	41417	O	GLY	H	55	131.663	130.647	-46.246	1.00 84.69	HS8
ATOM	41418	N	LYS	H	56	133.664	130.251	-45.300	1.00 88.90	HS8
ATOM	41419	CA	LYS	H	56	133.098	129.276	-44.383	1.00 88.90	HS8
ATOM	41420	CB	LYS	H	56	133.935	127.997	-44.369	1.00 90.09	HS8
ATOM	41421	CG	LYS	H	56	133.910	127.235	-45.671	1.00 90.09	HS8
ATOM	41422	CD	LYS	H	56	134.653	127.992	-46.733	1.00 90.09	HS8
ATOM	41423	CE	LYS	H	56	134.765	127.178	-47.992	1.00 90.09	HS8
ATOM	41424	NZ	LYS	H	56	135.458	127.962	-49.053	1.00 90.09	HS8
ATOM	41425	C	LYS	H	56	132.905	129.783	-42.957	1.00 88.90	HS8
ATOM	41426	O	LYS	H	56	133.629	130.654	-42.468	1.00 88.90	HS8
ATOM	41427	N	PRO	H	57	131.904	129.223	-42.278	1.00 60.87	HS8
ATOM	41428	CD	PRO	H	57	131.070	128.213	-42.946	1.00 54.76	HS8
ATOM	41429	CA	PRO	H	57	131.424	129.452	-40.912	1.00 60.87	HS8
ATOM	41430	CB	PRO	H	57	130.205	128.552	-40.830	1.00 54.76	HS8
ATOM	41431	CG	PRO	H	57	130.564	127.437	-41.779	1.00 54.76	HS8
ATOM	41432	C	PRO	H	57	132.381	129.177	-39.768	1.00 60.87	HS8
ATOM	41433	O	PRO	H	57	132.904	128.071	-39.629	1.00 60.87	HS8
ATOM	41434	N	TYR	H	58	132.577	130.195	-38.938	1.00 61.29	HS8
ATOM	41435	CA	TYR	H	58	133.440	130.100	-37.773	1.00 61.29	HS8
ATOM	41436	CB	TYR	H	58	134.739	130.874	-37.994	1.00 88.48	HS8
ATOM	41437	CG	TYR	H	58	135.708	130.107	-38.845	1.00 88.48	HS8
ATOM	41438	CD1	TYR	H	58	135.519	130.012	-40.221	1.00 88.48	HS8
ATOM	41439	CE1	TYR	H	58	136.295	129.176	-40.989	1.00 88.48	HS8
ATOM	41440	CD2	TYR	H	58	136.722	129.349	-38.262	1.00 88.48	HS8
ATOM	41441	CE2	TYR	H	58	137.502	128.504	-39.025	1.00 88.48	HS8
ATOM	41442	CZ	TYR	H	58	137.275	128.420	-40.388	1.00 88.48	HS8
ATOM	41443	OH	TYR	H	58	137.981	127.529	-41.149	1.00 88.48	HS8
ATOM	41444	C	TYR	H	58	132.717	130.651	-36.568	1.00 61.29	HS8
ATOM	41445	O	TYR	H	58	131.519	130.906	-36.619	1.00 61.29	HS8
ATOM	41446	N	LEU	H	59	133.445	130.822	-35.475	1.00 75.53	HS8
ATOM	41447	CA	LEU	H	59	132.860	131.361	-34.264	1.00 75.53	HS8
ATOM	41448	CB	LEU	H	59	132.477	130.235	-33.303	1.00 52.37	HS8
ATOM	41449	CG	LEU	H	59	131.393	129.261	-33.759	1.00 52.37	HS8
ATOM	41450	CD1	LEU	H	59	131.111	128.253	-32.673	1.00 52.37	HS8
ATOM	41451	CD2	LEU	H	59	130.131	130.021	-34.068	1.00 52.37	HS8
ATOM	41452	C	LEU	H	59	133.903	132.227	-33.608	1.00 75.53	HS8
ATOM	41453	O	LEU	H	59	134.894	131.702	-33.110	1.00 75.53	HS8
ATOM	41454	N	ARG	H	60	133.724	133.544	-33.629	1.00 63.18	HS8
ATOM	41455	CA	ARG	H	60	134.700	134.394	-32.958	1.00 63.18	HS8
ATOM	41456	CB	ARG	H	60	134.437	135.875	-33.199	1.00 85.75	HS8
ATOM	41457	CG	ARG	H	60	134.951	136.386	-34.484	1.00 85.75	HS8
ATOM	41458	CD	ARG	H	60	136.443	136.299	-34.556	1.00 85.75	HS8
ATOM	41459	NE	ARG	H	60	136.834	136.429	-35.950	1.00 85.75	HS8
ATOM	41460	CZ	ARG	H	60	136.489	137.458	-36.718	1.00 85.75	HS8
ATOM	41461	NH1	ARG	H	60	135.757	138.443	-36.206	1.00 85.75	HS8
ATOM	41462	NH2	ARG	H	60	136.850	137.490	-37.998	1.00 85.75	HS8
ATOM	41463	C	ARG	H	60	134.506	134.125	-31.483	1.00 63.18	HS8
ATOM	41464	O	ARG	H	60	133.397	134.254	-30.972	1.00 63.18	HS8
ATOM	41465	N	VAL	H	61	135.560	133.729	-30.791	1.00 53.17	HS8
ATOM	41466	CA	VAL	H	61	135.407	133.495	-29.377	1.00 53.17	HS8
ATOM	41467	CB	VAL	H	61	135.942	132.116	-28.973	1.00 50.66	HS8
ATOM	41468	CG1	VAL	H	61	135.909	131.973	-27.456	1.00 50.66	HS8
ATOM	41469	CG2	VAL	H	61	135.079	131.029	-29.604	1.00 50.66	HS8
ATOM	41470	C	VAL	H	61	136.172	134.605	-28.694	1.00 53.17	HS8
ATOM	41471	O	VAL	H	61	137.400	134.652	-28.741	1.00 53.17	HS8
ATOM	41472	N	TYR	H	62	135.436	135.526	-28.089	1.00 55.62	HS8
ATOM	41473	CA	TYR	H	62	136.056	136.653	-27.415	1.00 55.62	HS8
ATOM	41474	CB	TYR	H	62	135.055	137.791	-27.327	1.00 73.32	HS8
ATOM	41475	CG	TYR	H	62	134.740	138.326	-28.694	1.00 73.32	HS8
ATOM	41476	CD1	TYR	H	62	135.516	139.332	-29.253	1.00 73.32	HS8
ATOM	41477	CE1	TYR	H	62	135.317	139.760	-30.553	1.00 73.32	HS8
ATOM	41478	CD2	TYR	H	62	133.740	137.758	-29.471	1.00 73.32	HS8
ATOM	41479	CE2	TYR	H	62	133.530	138.177	-30.779	1.00 73.32	HS8
ATOM	41480	CZ	TYR	H	62	134.329	139.177	-31.317	1.00 73.32	HS8
ATOM	41481	OH	TYR	H	62	134.194	139.559	-32.636	1.00 73.32	HS8
ATOM	41482	C	TYR	H	62	136.564	136.263	-26.049	1.00 55.62	HS8
ATOM	41483	O	TYR	H	62	135.789	136.030	-25.125	1.00 55.62	HS8
ATOM	41484	N	LEU	H	63	137.885	136.186	-25.941	1.00 53.75	HS8
ATOM	41485	CA	LEU	H	63	138.547	135.801	-24.704	1.00 53.75	HS8
ATOM	41486	CB	LEU	H	63	139.988	135.370	-24.999	1.00 64.09	HS8
ATOM	41487	CG	LEU	H	63	140.155	133.971	-25.607	1.00 64.09	HS8
ATOM	41488	CD1	LEU	H	63	139.025	133.638	-26.561	1.00 64.09	HS8

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ATOM	41489	CD2	LEU	H	63	141.493	133.911	-26.313	1.00	64.09	HS8
ATOM	41490	C	LEU	H	63	138.510	136.888	-23.634	1.00	53.75	HS8
ATOM	41491	O	LEU	H	63	138.380	138.091	-23.930	1.00	53.75	HS8
ATOM	41492	N	LYS	H	64	138.675	136.425	-22.396	1.00	65.48	HS8
ATOM	41493	CA	LYS	H	64	138.573	137.241	-21.191	1.00	65.48	HS8
ATOM	41494	CB	LYS	H	64	137.237	136.851	-20.562	1.00	67.89	HS8
ATOM	41495	CG	LYS	H	64	136.692	137.631	-19.405	1.00	67.89	HS8
ATOM	41496	CD	LYS	H	64	135.324	137.022	-19.130	1.00	67.89	HS8
ATOM	41497	CE	LYS	H	64	134.626	137.612	-17.942	1.00	67.89	HS8
ATOM	41498	NZ	LYS	H	64	133.326	136.909	-17.799	1.00	67.89	HS8
ATOM	41499	C	LYS	H	64	139.735	136.964	-20.234	1.00	65.48	HS8
ATOM	41500	O	LYS	H	64	140.039	135.810	-19.960	1.00	65.48	HS8
ATOM	41501	N	TYR	H	65	140.377	138.015	-19.727	1.00	52.43	HS8
ATOM	41502	CA	TYR	H	65	141.497	137.854	-18.802	1.00	52.43	HS8
ATOM	41503	CB	TYR	H	65	142.814	138.249	-19.464	1.00	60.85	HS8
ATOM	41504	CG	TYR	H	65	143.004	137.638	-20.807	1.00	60.85	HS8
ATOM	41505	CD1	TYR	H	65	142.556	138.290	-21.950	1.00	60.85	HS8
ATOM	41506	CE1	TYR	H	65	142.673	137.703	-23.215	1.00	60.85	HS8
ATOM	41507	CD2	TYR	H	65	143.579	136.381	-20.944	1.00	60.85	HS8
ATOM	41508	CE2	TYR	H	65	143.703	135.779	-22.200	1.00	60.85	HS8
ATOM	41509	CZ	TYR	H	65	143.245	136.449	-23.333	1.00	60.85	HS8
ATOM	41510	OH	TYR	H	65	143.357	135.870	-24.578	1.00	60.85	HS8
ATOM	41511	C	TYR	H	65	141.341	138.700	-17.549	1.00	52.43	HS8
ATOM	41512	O	TYR	H	65	140.539	139.633	-17.505	1.00	52.43	HS8
ATOM	41513	N	GLY	H	66	142.134	138.383	-16.533	1.00	69.92	HS8
ATOM	41514	CA	GLY	H	66	142.083	139.145	-15.302	1.00	69.92	HS8
ATOM	41515	C	GLY	H	66	142.720	140.491	-15.564	1.00	69.92	HS8
ATOM	41516	O	GLY	H	66	142.950	140.845	-16.715	1.00	69.92	HS8
ATOM	41517	N	PRO	H	67	143.015	141.275	-14.524	1.00	77.03	HS8
ATOM	41518	CD	PRO	H	67	142.687	141.112	-13.093	1.00	52.51	HS8
ATOM	41519	CA	PRO	H	67	143.633	142.577	-14.785	1.00	77.03	HS8
ATOM	41520	CB	PRO	H	67	143.262	143.365	-13.545	1.00	52.51	HS8
ATOM	41521	CG	PRO	H	67	143.373	142.303	-12.466	1.00	52.51	HS8
ATOM	41522	C	PRO	H	67	145.145	142.431	-14.936	1.00	77.03	HS8
ATOM	41523	O	PRO	H	67	145.688	141.338	-14.748	1.00	77.03	HS8
ATOM	41524	N	ARG	H	68	145.816	143.526	-15.283	1.00	59.19	HS8
ATOM	41525	CA	ARG	H	68	147.273	143.526	-15.410	1.00	59.19	HS8
ATOM	41526	CB	ARG	H	68	147.751	144.876	-15.925	1.00	69.75	HS8
ATOM	41527	CG	ARG	H	68	149.253	145.064	-15.912	1.00	69.75	HS8
ATOM	41528	CD	ARG	H	68	149.586	146.419	-16.492	1.00	69.75	HS8
ATOM	41529	NE	ARG	H	68	150.750	146.400	-17.371	1.00	69.75	HS8
ATOM	41530	CZ	ARG	H	68	151.954	146.839	-17.021	1.00	69.75	HS8
ATOM	41531	NH1	ARG	H	68	152.151	147.329	-15.802	1.00	69.75	HS8
ATOM	41532	NH2	ARG	H	68	152.953	146.811	-17.897	1.00	69.75	HS8
ATOM	41533	C	ARG	H	68	147.847	143.281	-14.014	1.00	59.19	HS8
ATOM	41534	O	ARG	H	68	147.149	143.491	-13.019	1.00	59.19	HS8
ATOM	41535	N	ARG	H	69	149.101	142.842	-13.920	1.00	78.73	HS8
ATOM	41536	CA	ARG	H	69	149.703	142.582	-12.612	1.00	78.73	HS8
ATOM	41537	CB	ARG	H	69	150.141	141.125	-12.508	1.00	105.63	HS8
ATOM	41538	CG	ARG	H	69	148.975	140.153	-12.434	1.00	105.63	HS8
ATOM	41539	CD	ARG	H	69	149.453	138.773	-12.052	1.00	105.63	HS8
ATOM	41540	NE	ARG	H	69	150.411	138.269	-13.026	1.00	105.63	HS8
ATOM	41541	CZ	ARG	H	69	151.284	137.299	-12.781	1.00	105.63	HS8
ATOM	41542	NH1	ARG	H	69	151.322	136.726	-11.586	1.00	105.63	HS8
ATOM	41543	NH2	ARG	H	69	152.120	136.905	-13.733	1.00	105.63	HS8
ATOM	41544	C	ARG	H	69	150.863	143.498	-12.238	1.00	78.73	HS8
ATOM	41545	O	ARG	H	69	151.227	144.403	-12.986	1.00	78.73	HS8
ATOM	41546	N	GLN	H	70	151.437	143.261	-11.067	1.00	84.86	HS8
ATOM	41547	CA	GLN	H	70	152.529	144.086	-10.574	1.00	84.86	HS8
ATOM	41548	CB	GLN	H	70	152.354	144.346	-9.076	1.00	124.28	HS8
ATOM	41549	CG	GLN	H	70	151.149	145.194	-8.704	1.00	124.28	HS8
ATOM	41550	CD	GLN	H	70	151.202	146.578	-9.318	1.00	124.28	HS8
ATOM	41551	OE1	GLN	H	70	152.242	147.237	-9.299	1.00	124.28	HS8
ATOM	41552	NE2	GLN	H	70	150.076	147.032	-9.856	1.00	124.28	HS8
ATOM	41553	C	GLN	H	70	153.893	143.466	-10.803	1.00	84.86	HS8
ATOM	41554	O	GLN	H	70	154.006	142.275	-11.103	1.00	84.86	HS8
ATOM	41555	N	GLY	H	71	154.923	144.298	-10.644	1.00	105.66	HS8
ATOM	41556	CA	GLY	H	71	156.301	143.870	-10.804	1.00	105.66	HS8
ATOM	41557	C	GLY	H	71	156.633	143.125	-12.080	1.00	105.66	HS8
ATOM	41558	O	GLY	H	71	156.073	143.400	-13.144	1.00	105.66	HS8
ATOM	41559	N	PRO	H	72	157.565	142.168	-12.004	1.00	88.66	HS8
ATOM	41560	CD	PRO	H	72	158.274	141.737	-10.785	1.00	57.47	HS8
ATOM	41561	CA	PRO	H	72	157.974	141.372	-13.166	1.00	88.66	HS8
ATOM	41562	CB	PRO	H	72	159.074	140.481	-12.598	1.00	57.47	HS8
ATOM	41563	CG	PRO	H	72	158.681	140.340	-11.139	1.00	57.47	HS8
ATOM	41564	C	PRO	H	72	156.800	140.575	-13.723	1.00	88.66	HS8
ATOM	41565	O	PRO	H	72	156.012	139.994	-12.967	1.00	88.66	HS8

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ATOM	41566	N	ASP	H	73	156.691	140.543	-15.045	1.00	77.32	HS8
ATOM	41567	CA	ASP	H	73	155.595	139.835	-15.718	1.00	77.32	HS8
ATOM	41568	CB	ASP	H	73	155.661	138.315	-15.495	1.00	95.23	HS8
ATOM	41569	CG	ASP	H	73	154.597	137.551	-16.308	1.00	95.23	HS8
ATOM	41570	OD1	ASP	H	73	154.562	136.302	-16.234	1.00	95.23	HS8
ATOM	41571	OD2	ASP	H	73	153.797	138.199	-17.023	1.00	95.23	HS8
ATOM	41572	C	ASP	H	73	154.231	140.328	-15.259	1.00	77.32	HS8
ATOM	41573	O	ASP	H	73	153.649	139.788	-14.317	1.00	77.32	HS8
ATOM	41574	N	PRO	H	74	153.702	141.358	-15.935	1.00	80.44	HS8
ATOM	41575	CD	PRO	H	74	154.365	142.074	-17.038	1.00	80.58	HS8
ATOM	41576	CA	PRO	H	74	152.407	141.971	-15.649	1.00	80.44	HS8
ATOM	41577	CB	PRO	H	74	152.557	143.347	-16.263	1.00	80.58	HS8
ATOM	41578	CG	PRO	H	74	153.266	143.006	-17.532	1.00	80.58	HS8
ATOM	41579	C	PRO	H	74	151.266	141.192	-16.300	1.00	80.44	HS8
ATOM	41580	O	PRO	H	74	150.096	141.526	-16.117	1.00	80.44	HS8
ATOM	41581	N	ARG	H	75	151.603	140.159	-17.066	1.00	68.09	HS8
ATOM	41582	CA	ARG	H	75	150.567	139.380	-17.724	1.00	68.09	HS8
ATOM	41583	CB	ARG	H	75	151.151	138.125	-18.371	1.00	71.52	HS8
ATOM	41584	CG	ARG	H	75	151.868	138.415	-19.686	1.00	71.52	HS8
ATOM	41585	CD	ARG	H	75	152.513	137.170	-20.227	1.00	71.52	HS8
ATOM	41586	NE	ARG	H	75	153.378	136.580	-19.218	1.00	71.52	HS8
ATOM	41587	CZ	ARG	H	75	153.948	135.394	-19.345	1.00	71.52	HS8
ATOM	41588	NH1	ARG	H	75	153.741	134.682	-20.442	1.00	71.52	HS8
ATOM	41589	NH2	ARG	H	75	154.709	134.917	-18.371	1.00	71.52	HS8
ATOM	41590	C	ARG	H	75	149.439	139.022	-16.769	1.00	68.09	HS8
ATOM	41591	O	ARG	H	75	149.655	138.508	-15.676	1.00	68.09	HS8
ATOM	41592	N	PRO	H	76	148.208	139.297	-17.196	1.00	65.89	HS8
ATOM	41593	CD	PRO	H	76	147.954	139.607	-18.609	1.00	61.79	HS8
ATOM	41594	CA	PRO	H	76	146.948	139.072	-16.492	1.00	65.89	HS8
ATOM	41595	CB	PRO	H	76	145.894	139.419	-17.542	1.00	61.79	HS8
ATOM	41596	CG	PRO	H	76	146.630	140.275	-18.531	1.00	61.79	HS8
ATOM	41597	C	PRO	H	76	146.802	137.640	-16.066	1.00	65.89	HS8
ATOM	41598	O	PRO	H	76	147.409	136.753	-16.659	1.00	65.89	HS8
ATOM	41599	N	GLU	H	77	145.981	137.422	-15.044	1.00	83.13	HS8
ATOM	41600	CA	GLU	H	77	145.710	136.075	-14.572	1.00	83.13	HS8
ATOM	41601	CB	GLU	H	77	145.094	136.126	-13.182	1.00	99.56	HS8
ATOM	41602	CG	GLU	H	77	144.861	134.769	-12.581	1.00	99.56	HS8
ATOM	41603	CD	GLU	H	77	144.344	134.859	-11.165	1.00	99.56	HS8
ATOM	41604	OE1	GLU	H	77	144.931	135.631	-10.373	1.00	99.56	HS8
ATOM	41605	OE2	GLU	H	77	143.360	134.153	-10.843	1.00	99.56	HS8
ATOM	41606	C	GLU	H	77	144.702	135.517	-15.576	1.00	83.13	HS8
ATOM	41607	O	GLU	H	77	143.865	136.258	-16.082	1.00	83.13	HS8
ATOM	41608	N	GLN	H	78	144.785	134.233	-15.895	1.00	73.64	HS8
ATOM	41609	CA	GLN	H	78	143.844	133.667	-16.853	1.00	73.64	HS8
ATOM	41610	CB	GLN	H	78	144.312	132.295	-17.312	1.00	71.07	HS8
ATOM	41611	CG	GLN	H	78	145.519	132.303	-18.191	1.00	71.07	HS8
ATOM	41612	CD	GLN	H	78	145.252	132.926	-19.540	1.00	71.07	HS8
ATOM	41613	OE1	GLN	H	78	144.260	132.611	-20.204	1.00	71.07	HS8
ATOM	41614	NE2	GLN	H	78	146.151	133.809	-19.965	1.00	71.07	HS8
ATOM	41615	C	GLN	H	78	142.472	133.499	-16.225	1.00	73.64	HS8
ATOM	41616	O	GLN	H	78	142.368	133.202	-15.032	1.00	73.64	HS8
ATOM	41617	N	VAL	H	79	141.414	133.701	-17.003	1.00	76.23	HS8
ATOM	41618	CA	VAL	H	79	140.090	133.466	-16.447	1.00	76.23	HS8
ATOM	41619	CB	VAL	H	79	138.976	134.214	-17.213	1.00	72.03	HS8
ATOM	41620	CG1	VAL	H	79	137.736	133.326	-17.358	1.00	72.03	HS8
ATOM	41621	CG2	VAL	H	79	138.589	135.476	-16.443	1.00	72.03	HS8
ATOM	41622	C	VAL	H	79	139.927	131.962	-16.608	1.00	76.23	HS8
ATOM	41623	O	VAL	H	79	139.279	131.298	-15.792	1.00	76.23	HS8
ATOM	41624	N	ILE	H	80	140.544	131.436	-17.669	1.00	64.05	HS8
ATOM	41625	CA	ILE	H	80	140.532	130.003	-17.973	1.00	64.05	HS8
ATOM	41626	CB	ILE	H	80	140.276	129.739	-19.473	1.00	41.08	HS8
ATOM	41627	CG2	ILE	H	80	140.294	128.243	-19.736	1.00	41.08	HS8
ATOM	41628	CG1	ILE	H	80	138.941	130.341	-19.910	1.00	41.08	HS8
ATOM	41629	CD1	ILE	H	80	138.477	129.879	-21.299	1.00	41.08	HS8
ATOM	41630	C	ILE	H	80	141.915	129.423	-17.655	1.00	64.05	HS8
ATOM	41631	O	ILE	H	80	142.777	129.384	-18.534	1.00	64.05	HS8
ATOM	41632	N	HIS	H	81	142.150	128.983	-16.423	1.00	77.63	HS8
ATOM	41633	CA	HIS	H	81	143.465	128.434	-16.113	1.00	77.63	HS8
ATOM	41634	CB	HIS	H	81	143.781	128.492	-14.624	1.00	78.43	HS8
ATOM	41635	CG	HIS	H	81	143.067	129.578	-13.900	1.00	78.43	HS8
ATOM	41636	CD2	HIS	H	81	143.530	130.655	-13.226	1.00	78.43	HS8
ATOM	41637	ND1	HIS	H	81	141.693	129.631	-13.817	1.00	78.43	HS8
ATOM	41638	CE1	HIS	H	81	141.340	130.697	-13.123	1.00	78.43	HS8
ATOM	41639	NE2	HIS	H	81	142.437	131.336	-12.753	1.00	78.43	HS8
ATOM	41640	C	HIS	H	81	143.511	126.987	-16.535	1.00	77.63	HS8
ATOM	41641	O	HIS	H	81	144.584	126.415	-16.670	1.00	77.63	HS8
ATOM	41642	N	HIS	H	82	142.351	126.390	-16.745	1.00	66.06	HS8

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ATOM	41643	CA	HIS	H	82	142.319	124.993	-17.119	1.00	66.06	HS8
ATOM	41644	CB	HIS	H	82	142.105	124.162	-15.869	1.00	72.90	HS8
ATOM	41645	CG	HIS	H	82	142.244	122.689	-16.080	1.00	72.90	HS8
ATOM	41646	CD2	HIS	H	82	141.312	121.720	-16.244	1.00	72.90	HS8
ATOM	41647	ND1	HIS	H	82	143.466	122.051	-16.094	1.00	72.90	HS8
ATOM	41648	CE1	HIS	H	82	143.280	120.753	-16.255	1.00	72.90	HS8
ATOM	41649	NE2	HIS	H	82	141.982	120.526	-16.348	1.00	72.90	HS8
ATOM	41650	C	HIS	H	82	141.185	124.757	-18.089	1.00	66.06	HS8
ATOM	41651	O	HIS	H	82	140.259	125.559	-18.169	1.00	66.06	HS8
ATOM	41652	N	ILE	H	83	141.259	123.660	-18.827	1.00	66.34	HS8
ATOM	41653	CA	ILE	H	83	140.227	123.300	-19.787	1.00	66.34	HS8
ATOM	41654	CB	ILE	H	83	139.944	124.439	-20.796	1.00	39.29	HS8
ATOM	41655	CG2	ILE	H	83	141.228	124.945	-21.367	1.00	39.29	HS8
ATOM	41656	CG1	ILE	H	83	139.036	123.937	-21.928	1.00	39.29	HS8
ATOM	41657	CD1	ILE	H	83	138.550	125.037	-22.859	1.00	39.29	HS8
ATOM	41658	C	ILE	H	83	140.816	122.126	-20.518	1.00	66.34	HS8
ATOM	41659	O	ILE	H	83	141.821	122.294	-21.217	1.00	66.34	HS8
ATOM	41660	N	ARG	H	84	140.211	120.943	-20.351	1.00	66.70	HS8
ATOM	41661	CA	ARG	H	84	140.724	119.724	-20.985	1.00	66.70	HS8
ATOM	41662	CB	ARG	H	84	141.757	119.090	-20.051	1.00	98.82	HS8
ATOM	41663	CG	ARG	H	84	142.614	118.008	-20.686	1.00	98.82	HS8
ATOM	41664	CD	ARG	H	84	142.420	116.688	-19.962	1.00	98.82	HS8
ATOM	41665	NE	ARG	H	84	142.044	116.917	-18.572	1.00	98.82	HS8
ATOM	41666	CZ	ARG	H	84	141.889	115.956	-17.676	1.00	98.82	HS8
ATOM	41667	NH1	ARG	H	84	142.083	114.691	-18.026	1.00	98.82	HS8
ATOM	41668	NH2	ARG	H	84	141.535	116.267	-16.437	1.00	98.82	HS8
ATOM	41669	C	ARG	H	84	139.668	118.678	-21.365	1.00	66.70	HS8
ATOM	41670	O	ARG	H	84	138.759	118.413	-20.591	1.00	66.70	HS8
ATOM	41671	N	ARG	H	85	139.792	118.084	-22.552	1.00	78.94	HS8
ATOM	41672	CA	ARG	H	85	138.848	117.055	-22.993	1.00	78.94	HS8
ATOM	41673	CB	ARG	H	85	139.189	116.529	-24.387	1.00	58.98	HS8
ATOM	41674	CG	ARG	H	85	138.476	117.220	-25.510	1.00	58.98	HS8
ATOM	41675	CD	ARG	H	85	137.704	116.248	-26.378	1.00	58.98	HS8
ATOM	41676	NE	ARG	H	85	136.352	116.021	-25.885	1.00	58.98	HS8
ATOM	41677	CZ	ARG	H	85	135.362	115.553	-26.641	1.00	58.98	HS8
ATOM	41678	NH1	ARG	H	85	135.593	115.276	-27.917	1.00	58.98	HS8
ATOM	41679	NH2	ARG	H	85	134.143	115.359	-26.133	1.00	58.98	HS8
ATOM	41680	C	ARG	H	85	138.901	115.871	-22.056	1.00	78.94	HS8
ATOM	41681	O	ARG	H	85	139.918	115.623	-21.410	1.00	78.94	HS8
ATOM	41682	N	ILE	H	86	137.810	115.124	-21.993	1.00	75.61	HS8
ATOM	41683	CA	ILE	H	86	137.772	113.948	-21.146	1.00	75.61	HS8
ATOM	41684	CB	ILE	H	86	136.826	114.145	-19.981	1.00	47.27	HS8
ATOM	41685	CG2	ILE	H	86	136.672	112.846	-19.207	1.00	47.27	HS8
ATOM	41686	CG1	ILE	H	86	137.384	115.252	-19.097	1.00	47.27	HS8
ATOM	41687	CD1	ILE	H	86	136.424	115.768	-18.090	1.00	47.27	HS8
ATOM	41688	C	ILE	H	86	137.285	112.832	-22.027	1.00	75.61	HS8
ATOM	41689	O	ILE	H	86	138.017	111.887	-22.333	1.00	75.61	HS8
ATOM	41690	N	SER	H	87	136.037	112.937	-22.442	1.00	53.91	HS8
ATOM	41691	CA	SER	H	87	135.514	111.933	-23.334	1.00	53.91	HS8
ATOM	41692	CB	SER	H	87	134.010	112.152	-23.563	1.00	59.10	HS8
ATOM	41693	OG	SER	H	87	133.451	111.124	-24.369	1.00	59.10	HS8
ATOM	41694	C	SER	H	87	136.306	112.243	-24.601	1.00	53.91	HS8
ATOM	41695	O	SER	H	87	136.497	113.408	-24.947	1.00	53.91	HS8
ATOM	41696	N	LYS	H	88	136.830	111.225	-25.258	1.00	49.19	HS8
ATOM	41697	CA	LYS	H	88	137.545	111.462	-26.498	1.00	49.19	HS8
ATOM	41698	CB	LYS	H	88	139.062	111.478	-26.327	1.00	64.81	HS8
ATOM	41699	CG	LYS	H	88	139.603	112.102	-25.079	1.00	64.81	HS8
ATOM	41700	CD	LYS	H	88	141.107	112.284	-25.251	1.00	64.81	HS8
ATOM	41701	CE	LYS	H	88	141.868	112.097	-23.949	1.00	64.81	HS8
ATOM	41702	NZ	LYS	H	88	141.755	110.672	-23.503	1.00	64.81	HS8
ATOM	41703	C	LYS	H	88	137.220	110.265	-27.344	1.00	49.19	HS8
ATOM	41704	O	LYS	H	88	137.034	109.155	-26.830	1.00	49.19	HS8
ATOM	41705	N	PRO	H	89	137.144	110.459	-28.654	1.00	48.31	HS8
ATOM	41706	CD	PRO	H	89	137.580	111.635	-29.410	1.00	35.43	HS8
ATOM	41707	CA	PRO	H	89	136.846	109.325	-29.534	1.00	48.31	HS8
ATOM	41708	CB	PRO	H	89	137.109	109.901	-30.915	1.00	35.43	HS8
ATOM	41709	CG	PRO	H	89	138.142	111.000	-30.626	1.00	35.43	HS8
ATOM	41710	C	PRO	H	89	137.833	108.215	-29.163	1.00	48.31	HS8
ATOM	41711	O	PRO	H	89	138.909	108.492	-28.628	1.00	48.31	HS8
ATOM	41712	N	GLY	H	90	137.491	106.964	-29.415	1.00	78.50	HS8
ATOM	41713	CA	GLY	H	90	138.428	105.916	-29.048	1.00	78.50	HS8
ATOM	41714	C	GLY	H	90	138.729	105.854	-27.557	1.00	78.50	HS8
ATOM	41715	O	GLY	H	90	139.758	105.312	-27.141	1.00	78.50	HS8
ATOM	41716	N	ARG	H	91	137.829	106.430	-26.764	1.00	70.34	HS8
ATOM	41717	CA	ARG	H	91	137.919	106.424	-25.310	1.00	70.34	HS8
ATOM	41718	CB	ARG	H	91	139.275	106.916	-24.832	1.00	79.21	HS8
ATOM	41719	CG	ARG	H	91	139.839	106.111	-23.644	1.00	79.21	HS8

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ATOM	41720	CD	ARG	H	91	138.882	105.944	-22.459	1.00	79.21	HS8
ATOM	41721	NE	ARG	H	91	139.642	105.587	-21.258	1.00	79.21	HS8
ATOM	41722	CZ	ARG	H	91	139.116	105.400	-20.051	1.00	79.21	HS8
ATOM	41723	NH1	ARG	H	91	137.811	105.528	-19.863	1.00	79.21	HS8
ATOM	41724	NH2	ARG	H	91	139.901	105.098	-19.028	1.00	79.21	HS8
ATOM	41725	C	ARG	H	91	136.828	107.308	-24.726	1.00	70.34	HS8
ATOM	41726	O	ARG	H	91	137.103	108.258	-23.973	1.00	70.34	HS8
ATOM	41727	N	ARG	H	92	135.590	106.972	-25.098	1.00	61.10	HS8
ATOM	41728	CA	ARG	H	92	134.367	107.654	-24.675	1.00	61.10	HS8
ATOM	41729	CB	ARG	H	92	133.203	107.064	-25.455	1.00	62.63	HS8
ATOM	41730	CG	ARG	H	92	132.566	108.029	-26.405	1.00	62.63	HS8
ATOM	41731	CD	ARG	H	92	133.563	108.590	-27.359	1.00	62.63	HS8
ATOM	41732	NE	ARG	H	92	133.182	109.936	-27.751	1.00	62.63	HS8
ATOM	41733	CZ	ARG	H	92	133.186	110.377	-29.004	1.00	62.63	HS8
ATOM	41734	NH1	ARG	H	92	133.547	109.568	-29.998	1.00	62.63	HS8
ATOM	41735	NH2	ARG	H	92	132.835	111.634	-29.258	1.00	62.63	HS8
ATOM	41736	C	ARG	H	92	134.085	107.545	-23.173	1.00	61.10	HS8
ATOM	41737	O	ARG	H	92	134.320	106.501	-22.558	1.00	61.10	HS8
ATOM	41738	N	VAL	H	93	133.566	108.614	-22.581	1.00	72.85	HS8
ATOM	41739	CA	VAL	H	93	133.281	108.591	-21.151	1.00	72.85	HS8
ATOM	41740	CB	VAL	H	93	134.221	109.484	-20.391	1.00	36.65	HS8
ATOM	41741	CG1	VAL	H	93	133.961	109.336	-18.907	1.00	36.65	HS8
ATOM	41742	CG2	VAL	H	93	135.630	109.129	-20.726	1.00	36.65	HS8
ATOM	41743	C	VAL	H	93	131.882	109.017	-20.757	1.00	72.85	HS8
ATOM	41744	O	VAL	H	93	131.563	110.205	-20.776	1.00	72.85	HS8
ATOM	41745	N	TYR	H	94	131.065	108.051	-20.353	1.00	67.99	HS8
ATOM	41746	CA	TYR	H	94	129.695	108.331	-19.959	1.00	67.99	HS8
ATOM	41747	CB	TYR	H	94	128.753	107.379	-20.693	1.00	60.48	HS8
ATOM	41748	CG	TYR	H	94	128.980	107.333	-22.184	1.00	60.48	HS8
ATOM	41749	CD1	TYR	H	94	129.426	106.165	-22.811	1.00	60.48	HS8
ATOM	41750	CE1	TYR	H	94	129.623	106.109	-24.198	1.00	60.48	HS8
ATOM	41751	CD2	TYR	H	94	128.739	108.451	-22.974	1.00	60.48	HS8
ATOM	41752	CE2	TYR	H	94	128.933	108.410	-24.357	1.00	60.48	HS8
ATOM	41753	CZ	TYR	H	94	129.373	107.234	-24.968	1.00	60.48	HS8
ATOM	41754	OH	TYR	H	94	129.535	107.203	-26.346	1.00	60.48	HS8
ATOM	41755	C	TYR	H	94	129.533	108.160	-18.454	1.00	67.99	HS8
ATOM	41756	O	TYR	H	94	130.142	107.272	-17.858	1.00	67.99	HS8
ATOM	41757	N	VAL	H	95	128.724	109.009	-17.828	1.00	60.41	HS8
ATOM	41758	CA	VAL	H	95	128.515	108.880	-16.393	1.00	60.41	HS8
ATOM	41759	CB	VAL	H	95	129.359	109.891	-15.581	1.00	44.99	HS8
ATOM	41760	CG1	VAL	H	95	130.815	109.750	-15.942	1.00	44.99	HS8
ATOM	41761	CG2	VAL	H	95	128.857	111.313	-15.814	1.00	44.99	HS8
ATOM	41762	C	VAL	H	95	127.063	109.051	-15.975	1.00	60.41	HS8
ATOM	41763	O	VAL	H	95	126.305	109.814	-16.583	1.00	60.41	HS8
ATOM	41764	N	GLY	H	96	126.689	108.307	-14.935	1.00	68.51	HS8
ATOM	41765	CA	GLY	H	96	125.350	108.388	-14.395	1.00	68.51	HS8
ATOM	41766	C	GLY	H	96	125.335	109.652	-13.567	1.00	68.51	HS8
ATOM	41767	O	GLY	H	96	126.388	110.141	-13.160	1.00	68.51	HS8
ATOM	41768	N	VAL	H	97	124.148	110.183	-13.314	1.00	68.44	HS8
ATOM	41769	CA	VAL	H	97	124.024	111.415	-12.556	1.00	68.44	HS8
ATOM	41770	CB	VAL	H	97	122.545	111.759	-12.354	1.00	74.20	HS8
ATOM	41771	CG1	VAL	H	97	121.922	110.781	-11.400	1.00	74.20	HS8
ATOM	41772	CG2	VAL	H	97	122.405	113.175	-11.863	1.00	74.20	HS8
ATOM	41773	C	VAL	H	97	124.726	111.321	-11.204	1.00	68.44	HS8
ATOM	41774	O	VAL	H	97	125.214	112.317	-10.664	1.00	68.44	HS8
ATOM	41775	N	LYS	H	98	124.795	110.110	-10.671	1.00	59.16	HS8
ATOM	41776	CA	LYS	H	98	125.433	109.893	-9.385	1.00	59.16	HS8
ATOM	41777	CB	LYS	H	98	124.887	108.603	-8.776	1.00	158.46	HS8
ATOM	41778	CG	LYS	H	98	123.371	108.523	-8.900	1.00	158.46	HS8
ATOM	41779	CD	LYS	H	98	122.772	107.293	-8.242	1.00	158.46	HS8
ATOM	41780	CE	LYS	H	98	121.294	107.140	-8.616	1.00	158.46	HS8
ATOM	41781	NZ	LYS	H	98	120.481	108.352	-8.297	1.00	158.46	HS8
ATOM	41782	C	LYS	H	98	126.957	109.840	-9.518	1.00	59.16	HS8
ATOM	41783	O	LYS	H	98	127.681	109.794	-8.518	1.00	59.16	HS8
ATOM	41784	N	GLU	H	99	127.440	109.869	-10.760	1.00	85.93	HS8
ATOM	41785	CA	GLU	H	99	128.875	109.821	-11.043	1.00	85.93	HS8
ATOM	41786	CB	GLU	H	99	129.183	108.647	-11.967	1.00	129.71	HS8
ATOM	41787	CG	GLU	H	99	128.787	107.289	-11.435	1.00	129.71	HS8
ATOM	41788	CD	GLU	H	99	129.164	106.179	-12.401	1.00	129.71	HS8
ATOM	41789	OE1	GLU	H	99	128.621	106.156	-13.529	1.00	129.71	HS8
ATOM	41790	OE2	GLU	H	99	130.011	105.334	-12.037	1.00	129.71	HS8
ATOM	41791	C	GLU	H	99	129.393	111.106	-11.695	1.00	85.93	HS8
ATOM	41792	O	GLU	H	99	130.422	111.101	-12.366	1.00	85.93	HS8
ATOM	41793	N	ILE	H	100	128.680	112.208	-11.507	1.00	57.36	HS8
ATOM	41794	CA	ILE	H	100	129.102	113.470	-12.094	1.00	57.36	HS8
ATOM	41795	CB	ILE	H	100	127.926	114.449	-12.252	1.00	64.87	HS8
ATOM	41796	CG2	ILE	H	100	128.449	115.856	-12.460	1.00	64.87	HS8

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ATOM	41797	CG1	ILE	H	100	127.060	114.031	-13.439	1.00	64.87	HS8
ATOM	41798	CD1	ILE	H	100	125.833	114.894	-13.633	1.00	64.87	HS8
ATOM	41799	C	ILE	H	100	130.167	114.129	-11.244	1.00	57.36	HS8
ATOM	41800	O	ILE	H	100	129.909	114.603	-10.144	1.00	57.36	HS8
ATOM	41801	N	PRO	H	101	131.387	114.185	-11.759	1.00	79.16	HS8
ATOM	41802	CD	PRO	H	101	131.758	113.899	-13.155	1.00	62.09	HS8
ATOM	41803	CA	PRO	H	101	132.496	114.797	-11.028	1.00	79.16	HS8
ATOM	41804	CB	PRO	H	101	133.636	114.716	-12.031	1.00	62.09	HS8
ATOM	41805	CG	PRO	H	101	132.897	114.842	-13.369	1.00	62.09	HS8
ATOM	41806	C	PRO	H	101	132.237	116.236	-10.563	1.00	79.16	HS8
ATOM	41807	O	PRO	H	101	131.501	116.992	-11.204	1.00	79.16	HS8
ATOM	41808	N	ARG	H	102	132.844	116.597	-9.436	1.00	85.53	HS8
ATOM	41809	CA	ARG	H	102	132.736	117.942	-8.893	1.00	85.53	HS8
ATOM	41810	CB	ARG	H	102	132.396	117.897	-7.411	1.00	140.36	HS8
ATOM	41811	CG	ARG	H	102	130.922	117.867	-7.149	1.00	140.36	HS8
ATOM	41812	CD	ARG	H	102	130.641	117.693	-5.682	1.00	140.36	HS8
ATOM	41813	NE	ARG	H	102	129.238	117.950	-5.381	1.00	140.36	HS8
ATOM	41814	CZ	ARG	H	102	128.658	117.678	-4.215	1.00	140.36	HS8
ATOM	41815	NH1	ARG	H	102	129.363	117.129	-3.231	1.00	140.36	HS8
ATOM	41816	NH2	ARG	H	102	127.375	117.965	-4.029	1.00	140.36	HS8
ATOM	41817	C	ARG	H	102	134.077	118.638	-9.108	1.00	85.53	HS8
ATOM	41818	O	ARG	H	102	134.980	118.570	-8.271	1.00	85.53	HS8
ATOM	41819	N	VAL	H	103	134.193	119.300	-10.254	1.00	62.76	HS8
ATOM	41820	CA	VAL	H	103	135.399	120.019	-10.658	1.00	62.76	HS8
ATOM	41821	CB	VAL	H	103	135.163	120.704	-12.029	1.00	50.88	HS8
ATOM	41822	CG1	VAL	H	103	136.416	121.443	-12.492	1.00	50.88	HS8
ATOM	41823	CG2	VAL	H	103	134.728	119.668	-13.050	1.00	50.88	HS8
ATOM	41824	C	VAL	H	103	135.916	121.085	-9.686	1.00	62.76	HS8
ATOM	41825	O	VAL	H	103	135.173	121.980	-9.276	1.00	62.76	HS8
ATOM	41826	N	ARG	H	104	137.194	120.979	-9.330	1.00	93.24	HS8
ATOM	41827	CA	ARG	H	104	137.844	121.957	-8.460	1.00	93.24	HS8
ATOM	41828	CB	ARG	H	104	138.240	123.173	-9.304	1.00	72.26	HS8
ATOM	41829	CG	ARG	H	104	139.709	123.253	-9.719	1.00	72.26	HS8
ATOM	41830	CD	ARG	H	104	140.472	124.047	-8.670	1.00	72.26	HS8
ATOM	41831	NE	ARG	H	104	141.792	124.532	-9.083	1.00	72.26	HS8
ATOM	41832	CZ	ARG	H	104	142.758	123.763	-9.571	1.00	72.26	HS8
ATOM	41833	NH1	ARG	H	104	142.558	122.458	-9.734	1.00	72.26	HS8
ATOM	41834	NH2	ARG	H	104	143.942	124.296	-9.846	1.00	72.26	HS8
ATOM	41835	C	ARG	H	104	136.999	122.428	-7.275	1.00	93.24	HS8
ATOM	41836	O	ARG	H	104	136.845	123.639	-7.076	1.00	93.24	HS8
ATOM	41837	N	ARG	H	105	136.477	121.485	-6.485	1.00	68.79	HS8
ATOM	41838	CA	ARG	H	105	135.633	121.822	-5.332	1.00	68.79	HS8
ATOM	41839	CB	ARG	H	105	136.478	122.394	-4.191	1.00	99.72	HS8
ATOM	41840	CG	ARG	H	105	136.412	121.605	-2.889	1.00	99.72	HS8
ATOM	41841	CD	ARG	H	105	137.193	120.295	-2.993	1.00	99.72	HS8
ATOM	41842	NE	ARG	H	105	137.402	119.648	-1.695	1.00	99.72	HS8
ATOM	41843	CZ	ARG	H	105	136.514	118.878	-1.070	1.00	99.72	HS8
ATOM	41844	NH1	ARG	H	105	135.324	118.632	-1.617	1.00	99.72	HS8
ATOM	41845	NH2	ARG	H	105	136.821	118.356	0.112	1.00	99.72	HS8
ATOM	41846	C	ARG	H	105	134.557	122.847	-5.729	1.00	68.79	HS8
ATOM	41847	O	ARG	H	105	134.263	123.786	-4.982	1.00	68.79	HS8
ATOM	41848	N	GLY	H	106	133.995	122.673	-6.925	1.00	78.46	HS8
ATOM	41849	CA	GLY	H	106	132.949	123.561	-7.401	1.00	78.46	HS8
ATOM	41850	C	GLY	H	106	133.365	124.856	-8.071	1.00	78.46	HS8
ATOM	41851	O	GLY	H	106	132.563	125.454	-8.786	1.00	78.46	HS8
ATOM	41852	N	LEU	H	107	134.599	125.306	-7.859	1.00	65.60	HS8
ATOM	41853	CA	LEU	H	107	135.032	126.553	-8.478	1.00	65.60	HS8
ATOM	41854	CB	LEU	H	107	136.377	127.004	-7.922	1.00	56.50	HS8
ATOM	41855	CG	LEU	H	107	136.446	127.009	-6.394	1.00	56.50	HS8
ATOM	41856	CD1	LEU	H	107	137.586	127.912	-5.944	1.00	56.50	HS8
ATOM	41857	CD2	LEU	H	107	135.121	127.499	-5.806	1.00	56.50	HS8
ATOM	41858	C	LEU	H	107	135.138	126.408	-9.975	1.00	65.60	HS8
ATOM	41859	O	LEU	H	107	135.310	127.390	-10.679	1.00	65.60	HS8
ATOM	41860	N	GLY	H	108	135.041	125.178	-10.459	1.00	62.64	HS8
ATOM	41861	CA	GLY	H	108	135.135	124.946	-11.885	1.00	62.64	HS8
ATOM	41862	C	GLY	H	108	134.006	124.071	-12.378	1.00	62.64	HS8
ATOM	41863	O	GLY	H	108	133.511	123.197	-11.666	1.00	62.64	HS8
ATOM	41864	N	ILE	H	109	133.593	124.295	-13.611	1.00	53.42	HS8
ATOM	41865	CA	ILE	H	109	132.514	123.510	-14.168	1.00	53.42	HS8
ATOM	41866	CB	ILE	H	109	131.688	124.347	-15.131	1.00	65.68	HS8
ATOM	41867	CG2	ILE	H	109	131.597	125.756	-14.613	1.00	65.68	HS8
ATOM	41868	CG1	ILE	H	109	132.375	124.409	-16.490	1.00	65.68	HS8
ATOM	41869	CD1	ILE	H	109	131.599	125.187	-17.513	1.00	65.68	HS8
ATOM	41870	C	ILE	H	109	133.025	122.294	-14.926	1.00	53.42	HS8
ATOM	41871	O	ILE	H	109	134.224	122.102	-15.120	1.00	53.42	HS8
ATOM	41872	N	ALA	H	110	132.086	121.474	-15.355	1.00	65.25	HS8
ATOM	41873	CA	ALA	H	110	132.392	120.285	-16.115	1.00	65.25	HS8

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ATOM	41874	CB	ALA	H	110	132.406	119.090	-15.225	1.00	29.72	HS8
ATOM	41875	C	ALA	H	110	131.210	120.242	-17.046	1.00	65.25	HS8
ATOM	41876	O	ALA	H	110	130.066	120.208	-16.610	1.00	65.25	HS8
ATOM	41877	N	ILE	H	111	131.475	120.267	-18.333	1.00	56.01	HS8
ATOM	41878	CA	ILE	H	111	130.395	120.277	-19.282	1.00	56.01	HS8
ATOM	41879	CB	ILE	H	111	130.747	121.218	-20.446	1.00	54.72	HS8
ATOM	41880	CG2	ILE	H	111	129.654	121.186	-21.514	1.00	54.72	HS8
ATOM	41881	CG1	ILE	H	111	130.995	122.625	-19.895	1.00	54.72	HS8
ATOM	41882	CD1	ILE	H	111	131.331	123.661	-20.956	1.00	54.72	HS8
ATOM	41883	C	ILE	H	111	130.124	118.885	-19.806	1.00	56.01	HS8
ATOM	41884	O	ILE	H	111	131.044	118.177	-20.210	1.00	56.01	HS8
ATOM	41885	N	LEU	H	112	128.864	118.476	-19.778	1.00	66.26	HS8
ATOM	41886	CA	LEU	H	112	128.511	117.169	-20.312	1.00	66.26	HS8
ATOM	41887	CB	LEU	H	112	128.285	116.123	-19.203	1.00	45.65	HS8
ATOM	41888	CG	LEU	H	112	127.440	116.298	-17.951	1.00	45.65	HS8
ATOM	41889	CD1	LEU	H	112	127.825	115.180	-17.002	1.00	45.65	HS8
ATOM	41890	CD2	LEU	H	112	127.725	117.616	-17.270	1.00	45.65	HS8
ATOM	41891	C	LEU	H	112	127.309	117.259	-21.224	1.00	66.26	HS8
ATOM	41892	O	LEU	H	112	126.598	118.264	-21.250	1.00	66.26	HS8
ATOM	41893	N	SER	H	113	127.112	116.213	-22.005	1.00	69.73	HS8
ATOM	41894	CA	SER	H	113	126.010	116.180	-22.934	1.00	69.73	HS8
ATOM	41895	CB	SER	H	113	126.534	115.843	-24.329	1.00	63.01	HS8
ATOM	41896	OG	SER	H	113	125.467	115.675	-25.243	1.00	63.01	HS8
ATOM	41897	C	SER	H	113	125.010	115.133	-22.467	1.00	69.73	HS8
ATOM	41898	O	SER	H	113	125.376	113.977	-22.289	1.00	69.73	HS8
ATOM	41899	N	THR	H	114	123.760	115.550	-22.258	1.00	50.06	HS8
ATOM	41900	CA	THR	H	114	122.690	114.666	-21.801	1.00	50.06	HS8
ATOM	41901	CB	THR	H	114	122.077	115.162	-20.480	1.00	54.90	HS8
ATOM	41902	OG1	THR	H	114	121.383	116.391	-20.713	1.00	54.90	HS8
ATOM	41903	CG2	THR	H	114	123.158	115.421	-19.451	1.00	54.90	HS8
ATOM	41904	C	THR	H	114	121.595	114.695	-22.844	1.00	50.06	HS8
ATOM	41905	O	THR	H	114	121.599	115.559	-23.714	1.00	50.06	HS8
ATOM	41906	N	SER	H	115	120.654	113.761	-22.757	1.00	62.13	HS8
ATOM	41907	CA	SER	H	115	119.551	113.720	-23.710	1.00	62.13	HS8
ATOM	41908	CB	SER	H	115	118.802	112.388	-23.631	1.00	63.62	HS8
ATOM	41909	OG	SER	H	115	118.248	112.180	-22.345	1.00	63.62	HS8
ATOM	41910	C	SER	H	115	118.607	114.868	-23.397	1.00	62.13	HS8
ATOM	41911	O	SER	H	115	117.514	114.967	-23.941	1.00	62.13	HS8
ATOM	41912	N	LYS	H	116	119.039	115.730	-22.492	1.00	60.61	HS8
ATOM	41913	CA	LYS	H	116	118.257	116.891	-22.132	1.00	60.61	HS8
ATOM	41914	CB	LYS	H	116	118.010	116.937	-20.624	1.00	96.57	HS8
ATOM	41915	CG	LYS	H	116	116.626	116.490	-20.199	1.00	96.57	HS8
ATOM	41916	CD	LYS	H	116	116.442	116.691	-18.703	1.00	96.57	HS8
ATOM	41917	CE	LYS	H	116	114.997	116.470	-18.265	1.00	96.57	HS8
ATOM	41918	NZ	LYS	H	116	114.825	116.754	-16.802	1.00	96.57	HS8
ATOM	41919	C	LYS	H	116	119.084	118.095	-22.557	1.00	60.61	HS8
ATOM	41920	O	LYS	H	116	118.923	119.195	-22.012	1.00	60.61	HS8
ATOM	41921	N	GLY	H	117	119.977	117.871	-23.524	1.00	72.18	HS8
ATOM	41922	CA	GLY	H	117	120.838	118.936	-24.025	1.00	72.18	HS8
ATOM	41923	C	GLY	H	117	122.184	119.004	-23.323	1.00	72.18	HS8
ATOM	41924	O	GLY	H	117	122.538	118.085	-22.585	1.00	72.18	HS8
ATOM	41925	N	VAL	H	118	122.938	120.081	-23.532	1.00	54.39	HS8
ATOM	41926	CA	VAL	H	118	124.246	120.192	-22.881	1.00	54.39	HS8
ATOM	41927	CB	VAL	H	118	125.300	120.826	-23.819	1.00	56.09	HS8
ATOM	41928	CG1	VAL	H	118	126.666	120.778	-23.149	1.00	56.09	HS8
ATOM	41929	CG2	VAL	H	118	125.317	120.106	-25.164	1.00	56.09	HS8
ATOM	41930	C	VAL	H	118	124.195	121.010	-21.593	1.00	54.39	HS8
ATOM	41931	O	VAL	H	118	123.918	122.202	-21.607	1.00	54.39	HS8
ATOM	41932	N	LEU	H	119	124.477	120.378	-20.469	1.00	60.87	HS8
ATOM	41933	CA	LEU	H	119	124.421	121.102	-19.214	1.00	60.87	HS8
ATOM	41934	CB	LEU	H	119	123.396	120.458	-18.276	1.00	81.19	HS8
ATOM	41935	CG	LEU	H	119	122.314	119.581	-18.915	1.00	81.19	HS8
ATOM	41936	CD1	LEU	H	119	121.357	119.075	-17.846	1.00	81.19	HS8
ATOM	41937	CD2	LEU	H	119	121.558	120.378	-19.961	1.00	81.19	HS8
ATOM	41938	C	LEU	H	119	125.774	121.091	-18.542	1.00	60.87	HS8
ATOM	41939	O	LEU	H	119	126.725	120.483	-19.036	1.00	60.87	HS8
ATOM	41940	N	THR	H	120	125.846	121.789	-17.416	1.00	50.12	HS8
ATOM	41941	CA	THR	H	120	127.055	121.846	-16.613	1.00	50.12	HS8
ATOM	41942	CB	THR	H	120	127.304	123.256	-16.080	1.00	56.54	HS8
ATOM	41943	OG1	THR	H	120	126.534	123.460	-14.887	1.00	56.54	HS8
ATOM	41944	CG2	THR	H	120	126.908	124.285	-17.137	1.00	56.54	HS8
ATOM	41945	C	THR	H	120	126.724	120.920	-15.451	1.00	50.12	HS8
ATOM	41946	O	THR	H	120	125.550	120.702	-15.168	1.00	50.12	HS8
ATOM	41947	N	ASP	H	121	127.734	120.369	-14.784	1.00	81.81	HS8
ATOM	41948	CA	ASP	H	121	127.465	119.460	-13.680	1.00	81.81	HS8
ATOM	41949	CB	ASP	H	121	128.718	119.268	-12.805	1.00	92.81	HS8
ATOM	41950	CG	ASP	H	121	129.457	120.561	-12.529	1.00	92.81	HS8

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ATOM	41951	OD1	ASP	H	121	129.800	121.285	-13.485	1.00	92.81	HS8
ATOM	41952	OD2	ASP	H	121	129.716	120.848	-11.345	1.00	92.81	HS8
ATOM	41953	C	ASP	H	121	126.253	119.908	-12.852	1.00	81.81	HS8
ATOM	41954	O	ASP	H	121	125.322	119.121	-12.656	1.00	81.81	HS8
ATOM	41955	N	ARG	H	122	126.227	121.163	-12.400	1.00	64.07	HS8
ATOM	41956	CA	ARG	H	122	125.080	121.632	-11.617	1.00	64.07	HS8
ATOM	41957	CB	ARG	H	122	125.277	123.070	-11.165	1.00	114.09	HS8
ATOM	41958	CG	ARG	H	122	126.488	123.235	-10.324	1.00	114.09	HS8
ATOM	41959	CD	ARG	H	122	126.490	124.564	-9.636	1.00	114.09	HS8
ATOM	41960	NE	ARG	H	122	127.713	124.733	-8.860	1.00	114.09	HS8
ATOM	41961	CZ	ARG	H	122	127.937	125.739	-8.021	1.00	114.09	HS8
ATOM	41962	NH1	ARG	H	122	127.014	126.675	-7.842	1.00	114.09	HS8
ATOM	41963	NH2	ARG	H	122	129.086	125.809	-7.361	1.00	114.09	HS8
ATOM	41964	C	ARG	H	122	123.798	121.526	-12.428	1.00	64.07	HS8
ATOM	41965	O	ARG	H	122	122.849	120.873	-12.011	1.00	64.07	HS8
ATOM	41966	N	GLU	H	123	123.780	122.168	-13.592	1.00	54.75	HS8
ATOM	41967	CA	GLU	H	123	122.610	122.146	-14.467	1.00	54.75	HS8
ATOM	41968	CB	GLU	H	123	122.948	122.791	-15.821	1.00	114.24	HS8
ATOM	41969	CG	GLU	H	123	123.063	124.321	-15.821	1.00	114.24	HS8
ATOM	41970	CD	GLU	H	123	123.571	124.878	-17.158	1.00	114.24	HS8
ATOM	41971	OE1	GLU	H	123	123.224	124.308	-18.219	1.00	114.24	HS8
ATOM	41972	OE2	GLU	H	123	124.308	125.894	-17.149	1.00	114.24	HS8
ATOM	41973	C	GLU	H	123	122.151	120.701	-14.687	1.00	54.75	HS8
ATOM	41974	O	GLU	H	123	120.959	120.386	-14.629	1.00	54.75	HS8
ATOM	41975	N	ALA	H	124	123.109	119.816	-14.936	1.00	66.31	HS8
ATOM	41976	CA	ALA	H	124	122.800	118.416	-15.178	1.00	66.31	HS8
ATOM	41977	CB	ALA	H	124	124.053	117.683	-15.628	1.00	106.11	HS8
ATOM	41978	C	ALA	H	124	122.230	117.764	-13.936	1.00	66.31	HS8
ATOM	41979	O	ALA	H	124	121.164	117.156	-13.980	1.00	66.31	HS8
ATOM	41980	N	ARG	H	125	122.951	117.911	-12.828	1.00	65.45	HS8
ATOM	41981	CA	ARG	H	125	122.553	117.323	-11.559	1.00	65.45	HS8
ATOM	41982	CB	ARG	H	125	123.581	117.656	-10.483	1.00	101.43	HS8
ATOM	41983	CG	ARG	H	125	123.762	116.533	-9.507	1.00	101.43	HS8
ATOM	41984	CD	ARG	H	125	124.955	116.758	-8.628	1.00	101.43	HS8
ATOM	41985	NE	ARG	H	125	126.102	117.250	-9.382	1.00	101.43	HS8
ATOM	41986	CZ	ARG	H	125	127.366	117.133	-8.977	1.00	101.43	HS8
ATOM	41987	NH1	ARG	H	125	127.638	116.526	-7.824	1.00	101.43	HS8
ATOM	41988	NH2	ARG	H	125	128.359	117.635	-9.711	1.00	101.43	HS8
ATOM	41989	C	ARG	H	125	121.167	117.781	-11.121	1.00	65.45	HS8
ATOM	41990	O	ARG	H	125	120.404	116.995	-10.563	1.00	65.45	HS8
ATOM	41991	N	LYS	H	126	120.851	119.053	-11.364	1.00	75.39	HS8
ATOM	41992	CA	LYS	H	126	119.543	119.601	-11.021	1.00	75.39	HS8
ATOM	41993	CB	LYS	H	126	119.459	121.086	-11.399	1.00	105.77	HS8
ATOM	41994	CG	LYS	H	126	118.032	121.618	-11.416	1.00	105.77	HS8
ATOM	41995	CD	LYS	H	126	117.916	123.097	-11.802	1.00	105.77	HS8
ATOM	41996	CE	LYS	H	126	116.435	123.528	-11.823	1.00	105.77	HS8
ATOM	41997	NZ	LYS	H	126	116.204	124.996	-11.975	1.00	105.77	HS8
ATOM	41998	C	LYS	H	126	118.520	118.802	-11.823	1.00	75.39	HS8
ATOM	41999	O	LYS	H	126	117.666	118.124	-11.260	1.00	75.39	HS8
ATOM	42000	N	LEU	H	127	118.632	118.870	-13.144	1.00	63.03	HS8
ATOM	42001	CA	LEU	H	127	117.733	118.150	-14.034	1.00	63.03	HS8
ATOM	42002	CB	LEU	H	127	118.120	118.423	-15.484	1.00	61.18	HS8
ATOM	42003	CG	LEU	H	127	117.698	119.769	-16.055	1.00	61.18	HS8
ATOM	42004	CD1	LEU	H	127	116.205	119.729	-16.329	1.00	61.18	HS8
ATOM	42005	CD2	LEU	H	127	118.036	120.895	-15.081	1.00	61.18	HS8
ATOM	42006	C	LEU	H	127	117.779	116.645	-13.774	1.00	63.03	HS8
ATOM	42007	O	LEU	H	127	117.091	115.865	-14.447	1.00	63.03	HS8
ATOM	42008	N	GLY	H	128	118.602	116.245	-12.807	1.00	64.00	HS8
ATOM	42009	CA	GLY	H	128	118.742	114.841	-12.469	1.00	64.00	HS8
ATOM	42010	C	GLY	H	128	119.006	113.916	-13.646	1.00	64.00	HS8
ATOM	42011	O	GLY	H	128	118.186	113.043	-13.937	1.00	64.00	HS8
ATOM	42012	N	VAL	H	129	120.140	114.093	-14.323	1.00	89.02	HS8
ATOM	42013	CA	VAL	H	129	120.494	113.246	-15.464	1.00	89.02	HS8
ATOM	42014	CB	VAL	H	129	119.901	113.763	-16.770	1.00	51.68	HS8
ATOM	42015	CG1	VAL	H	129	118.391	113.848	-16.669	1.00	51.68	HS8
ATOM	42016	CG2	VAL	H	129	120.518	115.115	-17.097	1.00	51.68	HS8
ATOM	42017	C	VAL	H	129	121.993	113.207	-15.677	1.00	89.02	HS8
ATOM	42018	O	VAL	H	129	122.721	114.044	-15.144	1.00	89.02	HS8
ATOM	42019	N	GLY	H	130	122.438	112.246	-16.484	1.00	80.07	HS8
ATOM	42020	CA	GLY	H	130	123.853	112.104	-16.785	1.00	80.07	HS8
ATOM	42021	C	GLY	H	130	124.098	111.960	-18.280	1.00	80.07	HS8
ATOM	42022	O	GLY	H	130	123.163	112.110	-19.076	1.00	80.07	HS8
ATOM	42023	N	GLY	H	131	125.344	111.673	-18.666	1.00	75.99	HS8
ATOM	42024	CA	GLY	H	131	125.674	111.515	-20.075	1.00	75.99	HS8
ATOM	42025	C	GLY	H	131	127.151	111.668	-20.402	1.00	75.99	HS8
ATOM	42026	O	GLY	H	131	127.973	111.786	-19.496	1.00	75.99	HS8
ATOM	42027	N	GLU	H	132	127.490	111.658	-21.694	1.00	69.92	HS8

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ATOM	42028	CA	GLU	H	132	128.879	111.803	-22.128	1.00	69.92	HS8
ATOM	42029	CB	GLU	H	132	128.960	111.964	-23.648	1.00	79.23	HS8
ATOM	42030	CG	GLU	H	132	130.377	111.875	-24.182	1.00	79.23	HS8
ATOM	42031	CD	GLU	H	132	130.450	111.742	-25.702	1.00	79.23	HS8
ATOM	42032	OE1	GLU	H	132	129.678	110.931	-26.285	1.00	79.23	HS8
ATOM	42033	OE2	GLU	H	132	131.304	112.441	-26.311	1.00	79.23	HS8
ATOM	42034	C	GLU	H	132	129.486	113.024	-21.447	1.00	69.92	HS8
ATOM	42035	O	GLU	H	132	128.954	114.124	-21.554	1.00	69.92	HS8
ATOM	42036	N	LEU	H	133	130.596	112.813	-20.744	1.00	74.18	HS8
ATOM	42037	CA	LEU	H	133	131.298	113.857	-19.998	1.00	74.18	HS8
ATOM	42038	CB	LEU	H	133	131.973	113.204	-18.794	1.00	48.01	HS8
ATOM	42039	CG	LEU	H	133	132.392	114.076	-17.619	1.00	48.01	HS8
ATOM	42040	CD1	LEU	H	133	132.943	113.196	-16.503	1.00	48.01	HS8
ATOM	42041	CD2	LEU	H	133	133.417	115.074	-18.070	1.00	48.01	HS8
ATOM	42042	C	LEU	H	133	132.338	114.568	-20.873	1.00	74.18	HS8
ATOM	42043	O	LEU	H	133	133.516	114.229	-20.840	1.00	74.18	HS8
ATOM	42044	N	ILE	H	134	131.885	115.565	-21.630	1.00	80.66	HS8
ATOM	42045	CA	ILE	H	134	132.707	116.343	-22.566	1.00	80.66	HS8
ATOM	42046	CB	ILE	H	134	131.922	117.509	-23.114	1.00	67.10	HS8
ATOM	42047	CG2	ILE	H	134	132.818	118.393	-23.954	1.00	67.10	HS8
ATOM	42048	CG1	ILE	H	134	130.756	116.979	-23.927	1.00	67.10	HS8
ATOM	42049	CD1	ILE	H	134	129.838	118.066	-24.398	1.00	67.10	HS8
ATOM	42050	C	ILE	H	134	134.041	116.915	-22.133	1.00	80.66	HS8
ATOM	42051	O	ILE	H	134	135.070	116.615	-22.732	1.00	80.66	HS8
ATOM	42052	N	CYS	H	135	134.025	117.785	-21.135	1.00	69.17	HS8
ATOM	42053	CA	CYS	H	135	135.266	118.384	-20.672	1.00	69.17	HS8
ATOM	42054	CB	CYS	H	135	135.639	119.553	-21.571	1.00	76.19	HS8
ATOM	42055	SG	CYS	H	135	134.426	120.869	-21.579	1.00	76.19	HS8
ATOM	42056	C	CYS	H	135	135.227	118.850	-19.221	1.00	69.17	HS8
ATOM	42057	O	CYS	H	135	134.339	118.489	-18.452	1.00	69.17	HS8
ATOM	42058	N	GLU	H	136	136.179	119.686	-18.850	1.00	71.19	HS8
ATOM	42059	CA	GLU	H	136	136.246	120.132	-17.482	1.00	71.19	HS8
ATOM	42060	CB	GLU	H	136	136.931	119.029	-16.680	1.00	89.71	HS8
ATOM	42061	CG	GLU	H	136	137.662	119.447	-15.434	1.00	89.71	HS8
ATOM	42062	CD	GLU	H	136	138.874	118.556	-15.172	1.00	89.71	HS8
ATOM	42063	OE1	GLU	H	136	139.973	118.861	-15.689	1.00	89.71	HS8
ATOM	42064	OE2	GLU	H	136	138.724	117.535	-14.465	1.00	89.71	HS8
ATOM	42065	C	GLU	H	136	137.031	121.430	-17.445	1.00	71.19	HS8
ATOM	42066	O	GLU	H	136	138.259	121.409	-17.426	1.00	71.19	HS8
ATOM	42067	N	VAL	H	137	136.325	122.559	-17.457	1.00	54.29	HS8
ATOM	42068	CA	VAL	H	137	136.963	123.875	-17.423	1.00	54.29	HS8
ATOM	42069	CB	VAL	H	137	136.182	124.923	-18.250	1.00	57.87	HS8
ATOM	42070	CG1	VAL	H	137	136.763	126.314	-17.997	1.00	57.87	HS8
ATOM	42071	CG2	VAL	H	137	136.233	124.582	-19.733	1.00	57.87	HS8
ATOM	42072	C	VAL	H	137	137.000	124.408	-16.009	1.00	54.29	HS8
ATOM	42073	O	VAL	H	137	136.029	124.264	-15.279	1.00	54.29	HS8
ATOM	42074	N	TRP	H	138	138.111	125.020	-15.617	1.00	61.75	HS8
ATOM	42075	CA	TRP	H	138	138.193	125.614	-14.288	1.00	61.75	HS8
ATOM	42076	CB	TRP	H	138	138.318	124.546	-13.174	1.00	61.93	HS8
ATOM	42077	CG	TRP	H	138	139.497	123.602	-13.182	1.00	61.93	HS8
ATOM	42078	CD2	TRP	H	138	140.859	123.931	-12.950	1.00	61.93	HS8
ATOM	42079	CE2	TRP	H	138	141.597	122.720	-12.986	1.00	61.93	HS8
ATOM	42080	CE3	TRP	H	138	141.535	125.130	-12.726	1.00	61.93	HS8
ATOM	42081	CD1	TRP	H	138	139.460	122.234	-13.344	1.00	61.93	HS8
ATOM	42082	NE1	TRP	H	138	140.720	121.700	-13.223	1.00	61.93	HS8
ATOM	42083	CZ2	TRP	H	138	142.969	122.681	-12.807	1.00	61.93	HS8
ATOM	42084	CZ3	TRP	H	138	142.908	125.098	-12.549	1.00	61.93	HS8
ATOM	42085	CH2	TRP	H	138	143.614	123.878	-12.594	1.00	61.93	HS8
ATOM	42086	C	TRP	H	138	139.265	126.688	-14.150	1.00	61.75	HS8
ATOM	42087	O	TRP	H	138	139.541	127.357	-15.174	1.00	61.75	HS8
ATOM	42088	OXT	TRP	H	138	139.769	126.894	-13.024	1.00	90.90	HS8
TER	42088	TRP	H	138							HS8
ATOM	42089	CB	GLU	I	2	242.881	181.810	-3.993	1.00	155.98	IS9
ATOM	42090	CG	GLU	I	2	244.051	181.680	-3.010	1.00	155.98	IS9
ATOM	42091	CD	GLU	I	2	243.997	180.419	-2.152	1.00	155.98	IS9
ATOM	42092	OE1	GLU	I	2	244.179	179.312	-2.696	1.00	155.98	IS9
ATOM	42093	OE2	GLU	I	2	243.773	180.537	-0.927	1.00	155.98	IS9
ATOM	42094	C	GLU	I	2	243.148	179.639	-5.223	1.00	185.71	IS9
ATOM	42095	O	GLU	I	2	244.212	179.039	-5.388	1.00	185.71	IS9
ATOM	42096	N	GLU	I	2	241.981	181.544	-6.282	1.00	185.71	IS9
ATOM	42097	CA	GLU	I	2	243.089	181.157	-5.365	1.00	185.71	IS9
ATOM	42098	N	GLN	I	3	242.005	179.020	-4.926	1.00	122.62	IS9
ATOM	42099	CA	GLN	I	3	241.942	177.565	-4.762	1.00	122.62	IS9
ATOM	42100	CB	GLN	I	3	242.381	177.172	-3.353	1.00	100.03	IS9
ATOM	42101	CG	GLN	I	3	242.902	175.760	-3.247	1.00	100.03	IS9
ATOM	42102	CD	GLN	I	3	243.067	175.315	-1.814	1.00	100.03	IS9
ATOM	42103	OE1	GLN	I	3	243.695	174.293	-1.538	1.00	100.03	IS9

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ATOM	42104	NE2	GLN	I	3	242.491	176.075	-0.889	1.00100.03	IS9
ATOM	42105	C	GLN	I	3	240.541	177.024	-5.009	1.00122.62	IS9
ATOM	42106	O	GLN	I	3	239.549	177.706	-4.774	1.00122.62	IS9
ATOM	42107	N	TYR	I	4	240.464	175.788	-5.481	1.00130.53	IS9
ATOM	42108	CA	TYR	I	4	239.173	175.179	-5.751	1.00130.53	IS9
ATOM	42109	CB	TYR	I	4	238.888	175.188	-7.249	1.00148.75	IS9
ATOM	42110	CG	TYR	I	4	239.059	176.557	-7.839	1.00148.75	IS9
ATOM	42111	CD1	TYR	I	4	240.328	177.060	-8.122	1.00148.75	IS9
ATOM	42112	CE1	TYR	I	4	240.499	178.346	-8.590	1.00148.75	IS9
ATOM	42113	CD2	TYR	I	4	237.961	177.382	-8.047	1.00148.75	IS9
ATOM	42114	CE2	TYR	I	4	238.120	178.673	-8.516	1.00148.75	IS9
ATOM	42115	CZ	TYR	I	4	239.390	179.148	-8.785	1.00148.75	IS9
ATOM	42116	OH	TYR	I	4	239.548	180.427	-9.255	1.00148.75	IS9
ATOM	42117	C	TYR	I	4	239.111	173.766	-5.212	1.00130.53	IS9
ATOM	42118	O	TYR	I	4	240.107	173.037	-5.205	1.00130.53	IS9
ATOM	42119	N	TYR	I	5	237.923	173.384	-4.762	1.00130.62	IS9
ATOM	42120	CA	TYR	I	5	237.729	172.071	-4.186	1.00130.62	IS9
ATOM	42121	CB	TYR	I	5	237.459	172.213	-2.686	1.00113.06	IS9
ATOM	42122	CG	TYR	I	5	237.284	170.899	-1.990	1.00113.06	IS9
ATOM	42123	CD1	TYR	I	5	236.146	170.637	-1.243	1.00113.06	IS9
ATOM	42124	CE1	TYR	I	5	235.954	169.404	-0.646	1.00113.06	IS9
ATOM	42125	CD2	TYR	I	5	238.237	169.897	-2.120	1.00113.06	IS9
ATOM	42126	CE2	TYR	I	5	238.059	168.659	-1.531	1.00113.06	IS9
ATOM	42127	CZ	TYR	I	5	236.913	168.415	-0.795	1.00113.06	IS9
ATOM	42128	OH	TYR	I	5	236.717	167.175	-0.225	1.00113.06	IS9
ATOM	42129	C	TYR	I	5	236.607	171.280	-4.844	1.00130.62	IS9
ATOM	42130	O	TYR	I	5	235.745	171.832	-5.524	1.00130.62	IS9
ATOM	42131	N	GLY	I	6	236.651	169.972	-4.634	1.00132.13	IS9
ATOM	42132	CA	GLY	I	6	235.661	169.059	-5.166	1.00132.13	IS9
ATOM	42133	C	GLY	I	6	235.958	167.761	-4.450	1.00132.13	IS9
ATOM	42134	O	GLY	I	6	237.080	167.265	-4.539	1.00132.13	IS9
ATOM	42135	N	THR	I	7	234.987	167.216	-3.725	1.00197.85	IS9
ATOM	42136	CA	THR	I	7	235.232	165.979	-2.997	1.00197.85	IS9
ATOM	42137	CB	THR	I	7	234.054	165.619	-2.067	1.00 85.47	IS9
ATOM	42138	OG1	THR	I	7	233.780	166.721	-1.189	1.00 85.47	IS9
ATOM	42139	CG2	THR	I	7	234.410	164.411	-1.212	1.00 85.47	IS9
ATOM	42140	C	THR	I	7	235.517	164.823	-3.950	1.00197.85	IS9
ATOM	42141	O	THR	I	7	236.578	164.781	-4.564	1.00197.85	IS9
ATOM	42142	N	GLY	I	8	234.583	163.891	-4.088	1.00 94.99	IS9
ATOM	42143	CA	GLY	I	8	234.823	162.767	-4.975	1.00 94.99	IS9
ATOM	42144	C	GLY	I	8	234.929	161.425	-4.266	1.00 94.99	IS9
ATOM	42145	O	GLY	I	8	235.904	161.154	-3.557	1.00 94.99	IS9
ATOM	42146	N	ARG	I	9	233.911	160.589	-4.466	1.00108.57	IS9
ATOM	42147	CA	ARG	I	9	233.843	159.254	-3.874	1.00108.57	IS9
ATOM	42148	CB	ARG	I	9	232.748	159.196	-2.803	1.00101.41	IS9
ATOM	42149	CG	ARG	I	9	233.191	159.696	-1.434	1.00101.41	IS9
ATOM	42150	CD	ARG	I	9	232.034	159.726	-0.441	1.00101.41	IS9
ATOM	42151	NE	ARG	I	9	231.081	160.788	-0.760	1.00101.41	IS9
ATOM	42152	CZ	ARG	I	9	231.011	161.952	-0.116	1.00101.41	IS9
ATOM	42153	NH1	ARG	I	9	231.835	162.199	0.897	1.00101.41	IS9
ATOM	42154	NH2	ARG	I	9	230.135	162.879	-0.506	1.00101.41	IS9
ATOM	42155	C	ARG	I	9	233.571	158.200	-4.946	1.00108.57	IS9
ATOM	42156	O	ARG	I	9	233.045	158.509	-6.022	1.00108.57	IS9
ATOM	42157	N	ARG	I	10	233.932	156.954	-4.642	1.00 84.70	IS9
ATOM	42158	CA	ARG	I	10	233.748	155.839	-5.575	1.00 84.70	IS9
ATOM	42159	CB	ARG	I	10	234.759	155.938	-6.729	1.00102.16	IS9
ATOM	42160	CG	ARG	I	10	234.752	154.735	-7.663	1.00102.16	IS9
ATOM	42161	CD	ARG	I	10	233.426	154.661	-8.385	1.00102.16	IS9
ATOM	42162	NE	ARG	I	10	232.851	153.324	-8.351	1.00102.16	IS9
ATOM	42163	CZ	ARG	I	10	233.330	152.295	-9.036	1.00102.16	IS9
ATOM	42164	NH1	ARG	I	10	234.394	152.454	-9.811	1.00102.16	IS9
ATOM	42165	NH2	ARG	I	10	232.742	151.113	-8.946	1.00102.16	IS9
ATOM	42166	C	ARG	I	10	233.906	154.464	-4.925	1.00 84.70	IS9
ATOM	42167	O	ARG	I	10	234.963	154.145	-4.375	1.00 84.70	IS9
ATOM	42168	N	LYS	I	11	232.857	153.652	-4.989	1.00 97.55	IS9
ATOM	42169	CA	LYS	I	11	232.940	152.305	-4.441	1.00 97.55	IS9
ATOM	42170	CB	LYS	I	11	233.718	151.426	-5.440	1.00 74.73	IS9
ATOM	42171	CG	LYS	I	11	234.003	149.987	-5.002	1.00 74.73	IS9
ATOM	42172	CD	LYS	I	11	234.763	149.231	-6.086	1.00 74.73	IS9
ATOM	42173	CE	LYS	I	11	235.017	147.805	-5.667	1.00 74.73	IS9
ATOM	42174	NZ	LYS	I	11	235.515	147.059	-6.822	1.00 74.73	IS9
ATOM	42175	C	LYS	I	11	233.607	152.276	-3.056	1.00 97.55	IS9
ATOM	42176	O	LYS	I	11	234.505	151.478	-2.794	1.00 97.55	IS9
ATOM	42177	N	GLU	I	12	233.163	153.157	-2.171	1.00101.73	IS9
ATOM	42178	CA	GLU	I	12	233.710	153.217	-0.822	1.00101.73	IS9
ATOM	42179	CB	GLU	I	12	233.601	151.856	-0.155	1.00133.47	IS9
ATOM	42180	CG	GLU	I	12	233.814	151.910	1.329	1.00133.47	IS9

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ATOM	42181	CD	GLU	I	12	233.947	150.540	1.922	1.00133.47	IS9
ATOM	42182	OE1	GLU	I	12	234.932	149.854	1.564	1.00133.47	IS9
ATOM	42183	OE2	GLU	I	12	233.072	150.151	2.733	1.00133.47	IS9
ATOM	42184	C	GLU	I	12	235.164	153.697	-0.756	1.00101.73	IS9
ATOM	42185	O	GLU	I	12	236.025	153.059	-0.135	1.00101.73	IS9
ATOM	42186	N	ALA	I	13	235.417	154.836	-1.392	1.00140.65	IS9
ATOM	42187	CA	ALA	I	13	236.738	155.450	-1.424	1.00140.65	IS9
ATOM	42188	CB	ALA	I	13	237.549	154.873	-2.567	1.00 57.74	IS9
ATOM	42189	C	ALA	I	13	236.528	156.949	-1.626	1.00140.65	IS9
ATOM	42190	O	ALA	I	13	235.826	157.358	-2.554	1.00140.65	IS9
ATOM	42191	N	VAL	I	14	237.125	157.768	-0.761	1.00 92.80	IS9
ATOM	42192	CA	VAL	I	14	236.953	159.214	-0.870	1.00 92.80	IS9
ATOM	42193	CB	VAL	I	14	236.500	159.837	0.467	1.00120.82	IS9
ATOM	42194	CG1	VAL	I	14	236.140	161.299	0.250	1.00120.82	IS9
ATOM	42195	CG2	VAL	I	14	235.303	159.073	1.030	1.00120.82	IS9
ATOM	42196	C	VAL	I	14	238.213	159.926	-1.326	1.00 92.80	IS9
ATOM	42197	O	VAL	I	14	239.321	159.550	-0.952	1.00 92.80	IS9
ATOM	42198	N	ALA	I	15	238.034	160.973	-2.121	1.00154.88	IS9
ATOM	42199	CA	ALA	I	15	239.168	161.715	-2.635	1.00154.88	IS9
ATOM	42200	CB	ALA	I	15	239.373	161.354	-4.099	1.00 68.45	IS9
ATOM	42201	C	ALA	I	15	239.047	163.233	-2.480	1.00154.88	IS9
ATOM	42202	O	ALA	I	15	238.166	163.853	-3.073	1.00154.88	IS9
ATOM	42203	N	ARG	I	16	239.931	163.824	-1.674	1.00 97.14	IS9
ATOM	42204	CA	ARG	I	16	239.948	165.272	-1.475	1.00 97.14	IS9
ATOM	42205	CB	ARG	I	16	240.548	165.611	-0.100	1.00132.08	IS9
ATOM	42206	CG	ARG	I	16	239.514	165.634	1.030	1.00132.08	IS9
ATOM	42207	CD	ARG	I	16	240.125	165.816	2.417	1.00132.08	IS9
ATOM	42208	NE	ARG	I	16	240.570	164.546	2.994	1.00132.08	IS9
ATOM	42209	CZ	ARG	I	16	241.025	164.392	4.239	1.00132.08	IS9
ATOM	42210	NH1	ARG	I	16	241.101	165.431	5.060	1.00132.08	IS9
ATOM	42211	NH2	ARG	I	16	241.405	163.194	4.669	1.00132.08	IS9
ATOM	42212	C	ARG	I	16	240.786	165.867	-2.612	1.00 97.14	IS9
ATOM	42213	O	ARG	I	16	241.957	165.517	-2.780	1.00 97.14	IS9
ATOM	42214	N	VAL	I	17	240.179	166.747	-3.405	1.00110.21	IS9
ATOM	42215	CA	VAL	I	17	240.874	167.356	-4.538	1.00110.21	IS9
ATOM	42216	CB	VAL	I	17	240.255	166.887	-5.882	1.00121.02	IS9
ATOM	42217	CG1	VAL	I	17	240.954	167.562	-7.048	1.00121.02	IS9
ATOM	42218	CG2	VAL	I	17	240.375	165.382	-6.014	1.00121.02	IS9
ATOM	42219	C	VAL	I	17	240.872	168.885	-4.524	1.00110.21	IS9
ATOM	42220	O	VAL	I	17	239.814	169.510	-4.613	1.00110.21	IS9
ATOM	42221	N	PHE	I	18	242.063	169.477	-4.427	1.00115.23	IS9
ATOM	42222	CA	PHE	I	18	242.216	170.934	-4.415	1.00115.23	IS9
ATOM	42223	CB	PHE	I	18	243.010	171.388	-3.192	1.00 95.49	IS9
ATOM	42224	CG	PHE	I	18	242.469	170.885	-1.888	1.00 95.49	IS9
ATOM	42225	CD1	PHE	I	18	243.236	170.039	-1.085	1.00 95.49	IS9
ATOM	42226	CD2	PHE	I	18	241.216	171.286	-1.435	1.00 95.49	IS9
ATOM	42227	CE1	PHE	I	18	242.766	169.601	0.156	1.00 95.49	IS9
ATOM	42228	CE2	PHE	I	18	240.736	170.854	-0.197	1.00 95.49	IS9
ATOM	42229	CZ	PHE	I	18	241.516	170.010	0.600	1.00 95.49	IS9
ATOM	42230	C	PHE	I	18	242.962	171.396	-5.662	1.00115.23	IS9
ATOM	42231	O	PHE	I	18	244.124	171.035	-5.868	1.00115.23	IS9
ATOM	42232	N	LEU	I	19	242.300	172.197	-6.488	1.00109.33	IS9
ATOM	42233	CA	LEU	I	19	242.931	172.700	-7.701	1.00109.33	IS9
ATOM	42234	CB	LEU	I	19	241.925	172.787	-8.846	1.00 86.71	IS9
ATOM	42235	CG	LEU	I	19	241.465	171.462	-9.442	1.00 86.71	IS9
ATOM	42236	CD1	LEU	I	19	240.617	171.736	-10.672	1.00 86.71	IS9
ATOM	42237	CD2	LEU	I	19	242.679	170.621	-9.801	1.00 86.71	IS9
ATOM	42238	C	LEU	I	19	243.574	174.062	-7.503	1.00109.33	IS9
ATOM	42239	O	LEU	I	19	243.059	174.919	-6.784	1.00109.33	IS9
ATOM	42240	N	ARG	I	20	244.706	174.251	-8.163	1.00138.55	IS9
ATOM	42241	CA	ARG	I	20	245.452	175.490	-8.077	1.00138.55	IS9
ATOM	42242	CB	ARG	I	20	246.490	175.370	-6.960	1.00119.48	IS9
ATOM	42243	CG	ARG	I	20	245.875	175.052	-5.596	1.00119.48	IS9
ATOM	42244	CD	ARG	I	20	246.881	174.442	-4.616	1.00119.48	IS9
ATOM	42245	NE	ARG	I	20	246.283	174.156	-3.308	1.00119.48	IS9
ATOM	42246	CZ	ARG	I	20	246.906	173.527	-2.311	1.00119.48	IS9
ATOM	42247	NH1	ARG	I	20	248.154	173.104	-2.461	1.00119.48	IS9
ATOM	42248	NH2	ARG	I	20	246.284	173.323	-1.157	1.00119.48	IS9
ATOM	42249	C	ARG	I	20	246.126	175.654	-9.431	1.00138.55	IS9
ATOM	42250	O	ARG	I	20	246.759	174.722	-9.923	1.00138.55	IS9
ATOM	42251	N	PRO	I	21	245.977	176.828	-10.070	1.00159.48	IS9
ATOM	42252	CD	PRO	I	21	245.107	177.966	-9.734	1.00 96.66	IS9
ATOM	42253	CA	PRO	I	21	246.609	177.030	-11.379	1.00159.48	IS9
ATOM	42254	CB	PRO	I	21	246.097	178.405	-11.806	1.00 96.66	IS9
ATOM	42255	CG	PRO	I	21	244.786	178.512	-11.104	1.00 96.66	IS9
ATOM	42256	C	PRO	I	21	248.129	176.990	-11.270	1.00159.48	IS9
ATOM	42257	O	PRO	I	21	248.701	177.509	-10.309	1.00159.48	IS9

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ATOM	42258	N	GLY	I	22	248.776	176.368	-12.252	1.00152.46	IS9
ATOM	42259	CA	GLY	I	22	250.225	176.277	-12.232	1.00152.46	IS9
ATOM	42260	C	GLY	I	22	250.814	175.225	-13.154	1.00152.46	IS9
ATOM	42261	O	GLY	I	22	250.234	174.894	-14.190	1.00152.46	IS9
ATOM	42262	N	ASN	I	23	251.977	174.706	-12.765	1.00142.41	IS9
ATOM	42263	CA	ASN	I	23	252.700	173.689	-13.524	1.00142.41	IS9
ATOM	42264	CB	ASN	I	23	253.661	172.943	-12.588	1.00193.18	IS9
ATOM	42265	CG	ASN	I	23	254.437	171.840	-13.294	1.00193.18	IS9
ATOM	42266	OD1	ASN	I	23	255.131	171.051	-12.651	1.00193.18	IS9
ATOM	42267	ND2	ASN	I	23	254.328	171.783	-14.618	1.00193.18	IS9
ATOM	42268	C	ASN	I	23	251.791	172.679	-14.229	1.00142.41	IS9
ATOM	42269	O	ASN	I	23	251.549	172.769	-15.435	1.00142.41	IS9
ATOM	42270	N	GLY	I	24	251.300	171.713	-13.461	1.00175.12	IS9
ATOM	42271	CA	GLY	I	24	250.439	170.683	-14.008	1.00175.12	IS9
ATOM	42272	C	GLY	I	24	250.693	169.396	-13.257	1.00175.12	IS9
ATOM	42273	O	GLY	I	24	250.191	168.334	-13.627	1.00175.12	IS9
ATOM	42274	N	LYS	I	25	251.485	169.503	-12.193	1.00141.56	IS9
ATOM	42275	CA	LYS	I	25	251.830	168.359	-11.361	1.00141.56	IS9
ATOM	42276	CB	LYS	I	25	253.086	168.656	-10.537	1.00139.27	IS9
ATOM	42277	CG	LYS	I	25	252.944	169.804	-9.552	1.00139.27	IS9
ATOM	42278	CD	LYS	I	25	254.179	169.924	-8.667	1.00139.27	IS9
ATOM	42279	CE	LYS	I	25	255.438	170.195	-9.486	1.00139.27	IS9
ATOM	42280	NZ	LYS	I	25	256.669	170.266	-8.644	1.00139.27	IS9
ATOM	42281	C	LYS	I	25	250.683	168.001	-10.428	1.00141.56	IS9
ATOM	42282	O	LYS	I	25	249.746	168.781	-10.248	1.00141.56	IS9
ATOM	42283	N	VAL	I	26	250.760	166.818	-9.831	1.00105.83	IS9
ATOM	42284	CA	VAL	I	26	249.711	166.372	-8.934	1.00105.83	IS9
ATOM	42285	CB	VAL	I	26	248.719	165.441	-9.652	1.00100.12	IS9
ATOM	42286	CG1	VAL	I	26	247.565	165.110	-8.717	1.00100.12	IS9
ATOM	42287	CG2	VAL	I	26	248.221	166.087	-10.937	1.00100.12	IS9
ATOM	42288	C	VAL	I	26	250.236	165.620	-7.725	1.00105.83	IS9
ATOM	42289	O	VAL	I	26	250.487	164.422	-7.795	1.00105.83	IS9
ATOM	42290	N	THR	I	27	250.419	166.320	-6.617	1.00108.92	IS9
ATOM	42291	CA	THR	I	27	250.868	165.645	-5.415	1.00108.92	IS9
ATOM	42292	CB	THR	I	27	251.102	166.629	-4.260	1.00198.62	IS9
ATOM	42293	OG1	THR	I	27	252.210	167.481	-4.574	1.00198.62	IS9
ATOM	42294	CG2	THR	I	27	251.385	165.875	-2.968	1.00198.62	IS9
ATOM	42295	C	THR	I	27	249.679	164.770	-5.071	1.00108.92	IS9
ATOM	42296	O	THR	I	27	248.538	165.164	-5.304	1.00108.92	IS9
ATOM	42297	N	VAL	I	28	249.931	163.581	-4.539	1.00113.26	IS9
ATOM	42298	CA	VAL	I	28	248.838	162.686	-4.177	1.00113.26	IS9
ATOM	42299	CB	VAL	I	28	248.483	161.712	-5.328	1.00 99.99	IS9
ATOM	42300	CG1	VAL	I	28	247.469	160.680	-4.846	1.00 99.99	IS9
ATOM	42301	CG2	VAL	I	28	247.913	162.490	-6.507	1.00 99.99	IS9
ATOM	42302	C	VAL	I	28	249.154	161.870	-2.937	1.00113.26	IS9
ATOM	42303	O	VAL	I	28	249.977	160.954	-2.976	1.00113.26	IS9
ATOM	42304	N	ASN	I	29	248.492	162.223	-1.839	1.00 89.17	IS9
ATOM	42305	CA	ASN	I	29	248.668	161.529	-0.572	1.00 89.17	IS9
ATOM	42306	CB	ASN	I	29	248.102	160.118	-0.685	1.00113.15	IS9
ATOM	42307	CG	ASN	I	29	247.519	159.634	0.607	1.00113.15	IS9
ATOM	42308	OD1	ASN	I	29	246.544	160.203	1.096	1.00113.15	IS9
ATOM	42309	ND2	ASN	I	29	248.110	158.586	1.179	1.00113.15	IS9
ATOM	42310	C	ASN	I	29	250.150	161.463	-0.226	1.00 89.17	IS9
ATOM	42311	O	ASN	I	29	250.624	160.510	0.392	1.00 89.17	IS9
ATOM	42312	N	GLY	I	30	250.880	162.489	-0.634	1.00145.04	IS9
ATOM	42313	CA	GLY	I	30	252.300	162.508	-0.375	1.00145.04	IS9
ATOM	42314	C	GLY	I	30	253.026	162.302	-1.683	1.00145.04	IS9
ATOM	42315	O	GLY	I	30	253.307	163.265	-2.390	1.00145.04	IS9
ATOM	42316	N	GLN	I	31	253.304	161.047	-2.025	1.00121.03	IS9
ATOM	42317	CA	GLN	I	31	254.020	160.727	-3.257	1.00121.03	IS9
ATOM	42318	CB	GLN	I	31	253.971	159.230	-3.532	1.00133.23	IS9
ATOM	42319	CG	GLN	I	31	254.524	158.377	-2.427	1.00133.23	IS9
ATOM	42320	CD	GLN	I	31	254.604	156.924	-2.832	1.00133.23	IS9
ATOM	42321	OE1	GLN	I	31	253.604	156.325	-3.238	1.00133.23	IS9
ATOM	42322	NE2	GLN	I	31	255.798	156.344	-2.729	1.00133.23	IS9
ATOM	42323	C	GLN	I	31	253.500	161.450	-4.489	1.00121.03	IS9
ATOM	42324	O	GLN	I	31	252.422	162.049	-4.473	1.00121.03	IS9
ATOM	42325	N	ASP	I	32	254.288	161.387	-5.557	1.00112.52	IS9
ATOM	42326	CA	ASP	I	32	253.917	162.006	-6.818	1.00112.52	IS9
ATOM	42327	CB	ASP	I	32	255.130	162.046	-7.756	1.00119.28	IS9
ATOM	42328	CG	ASP	I	32	254.863	162.821	-9.040	1.00119.28	IS9
ATOM	42329	OD1	ASP	I	32	253.887	162.507	-9.753	1.00119.28	IS9
ATOM	42330	OD2	ASP	I	32	255.641	163.746	-9.344	1.00119.28	IS9
ATOM	42331	C	ASP	I	32	252.822	161.108	-7.399	1.00112.52	IS9
ATOM	42332	O	ASP	I	32	252.792	159.901	-7.124	1.00112.52	IS9
ATOM	42333	N	PHE	I	33	251.921	161.700	-8.182	1.00138.63	IS9
ATOM	42334	CA	PHE	I	33	250.814	160.974	-8.814	1.00138.63	IS9

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ATOM	42335	CB	PHE	I	33	250.191	161.853	-9.900	1.00108.27	IS9
ATOM	42336	CG	PHE	I	33	248.951	161.278	-10.530	1.00108.27	IS9
ATOM	42337	CD1	PHE	I	33	247.928	160.759	-9.746	1.00108.27	IS9
ATOM	42338	CD2	PHE	I	33	248.774	161.330	-11.911	1.00108.27	IS9
ATOM	42339	CE1	PHE	I	33	246.745	160.306	-10.327	1.00108.27	IS9
ATOM	42340	CE2	PHE	I	33	247.596	160.880	-12.499	1.00108.27	IS9
ATOM	42341	CZ	PHE	I	33	246.579	160.369	-11.704	1.00108.27	IS9
ATOM	42342	C	PHE	I	33	251.329	159.685	-9.430	1.00138.63	IS9
ATOM	42343	O	PHE	I	33	250.857	158.592	-9.112	1.00138.63	IS9
ATOM	42344	N	ASN	I	34	252.316	159.845	-10.307	1.00 90.50	IS9
ATOM	42345	CA	ASN	I	34	252.954	158.742	-11.012	1.00 90.50	IS9
ATOM	42346	CB	ASN	I	34	253.799	159.297	-12.157	1.00149.43	IS9
ATOM	42347	CG	ASN	I	34	253.005	160.207	-13.072	1.00149.43	IS9
ATOM	42348	OD1	ASN	I	34	252.125	159.755	-13.803	1.00149.43	IS9
ATOM	42349	ND2	ASN	I	34	253.303	161.501	-13.026	1.00149.43	IS9
ATOM	42350	C	ASN	I	34	253.828	157.904	-10.085	1.00 90.50	IS9
ATOM	42351	O	ASN	I	34	254.699	157.168	-10.537	1.00 90.50	IS9
ATOM	42352	N	GLU	I	35	253.604	158.016	-8.784	1.00 98.30	IS9
ATOM	42353	CA	GLU	I	35	254.385	157.241	-7.837	1.00 98.30	IS9
ATOM	42354	CB	GLU	I	35	255.248	158.161	-6.972	1.00169.74	IS9
ATOM	42355	CG	GLU	I	35	256.303	157.418	-6.173	1.00169.74	IS9
ATOM	42356	CD	GLU	I	35	257.099	156.446	-7.031	1.00169.74	IS9
ATOM	42357	OE1	GLU	I	35	257.722	156.891	-8.018	1.00169.74	IS9
ATOM	42358	OE2	GLU	I	35	257.099	155.236	-6.719	1.00169.74	IS9
ATOM	42359	C	GLU	I	35	253.434	156.429	-6.969	1.00 98.30	IS9
ATOM	42360	O	GLU	I	35	253.685	155.252	-6.683	1.00 98.30	IS9
ATOM	42361	N	TYR	I	36	252.337	157.060	-6.555	1.00 95.61	IS9
ATOM	42362	CA	TYR	I	36	251.344	156.379	-5.736	1.00 95.61	IS9
ATOM	42363	CB	TYR	I	36	250.233	157.355	-5.321	1.00109.93	IS9
ATOM	42364	CG	TYR	I	36	249.220	156.772	-4.351	1.00109.93	IS9
ATOM	42365	CD1	TYR	I	36	249.620	156.253	-3.118	1.00109.93	IS9
ATOM	42366	CE1	TYR	I	36	248.694	155.683	-2.236	1.00109.93	IS9
ATOM	42367	CD2	TYR	I	36	247.865	156.715	-4.678	1.00109.93	IS9
ATOM	42368	CE2	TYR	I	36	246.933	156.149	-3.810	1.00109.93	IS9
ATOM	42369	CZ	TYR	I	36	247.355	155.631	-2.593	1.00109.93	IS9
ATOM	42370	OH	TYR	I	36	246.451	155.025	-1.754	1.00109.93	IS9
ATOM	42371	C	TYR	I	36	250.785	155.277	-6.624	1.00 95.61	IS9
ATOM	42372	O	TYR	I	36	250.636	154.129	-6.202	1.00 95.61	IS9
ATOM	42373	N	PHE	I	37	250.503	155.648	-7.870	1.00 86.27	IS9
ATOM	42374	CA	PHE	I	37	249.972	154.727	-8.870	1.00 86.27	IS9
ATOM	42375	CB	PHE	I	37	248.938	155.446	-9.736	1.00110.49	IS9
ATOM	42376	CG	PHE	I	37	247.755	155.945	-8.964	1.00110.49	IS9
ATOM	42377	CD1	PHE	I	37	246.998	157.007	-9.439	1.00110.49	IS9
ATOM	42378	CD2	PHE	I	37	247.393	155.346	-7.758	1.00110.49	IS9
ATOM	42379	CE1	PHE	I	37	245.901	157.470	-8.721	1.00110.49	IS9
ATOM	42380	CE2	PHE	I	37	246.302	155.798	-7.040	1.00110.49	IS9
ATOM	42381	CZ	PHE	I	37	245.554	156.861	-7.518	1.00110.49	IS9
ATOM	42382	C	PHE	I	37	251.107	154.199	-9.736	1.00 86.27	IS9
ATOM	42383	O	PHE	I	37	251.056	154.251	-10.969	1.00 86.27	IS9
ATOM	42384	N	GLN	I	38	252.135	153.692	-9.067	1.00132.76	IS9
ATOM	42385	CA	GLN	I	38	253.304	153.146	-9.733	1.00132.76	IS9
ATOM	42386	CB	GLN	I	38	254.392	152.851	-8.695	1.00130.41	IS9
ATOM	42387	CG	GLN	I	38	255.809	153.129	-9.162	1.00130.41	IS9
ATOM	42388	CD	GLN	I	38	256.179	152.364	-10.418	1.00130.41	IS9
ATOM	42389	OE1	GLN	I	38	255.522	152.493	-11.455	1.00130.41	IS9
ATOM	42390	NE2	GLN	I	38	257.242	151.567	-10.335	1.00130.41	IS9
ATOM	42391	C	GLN	I	38	252.913	151.862	-10.460	1.00132.76	IS9
ATOM	42392	O	GLN	I	38	252.827	150.796	-9.852	1.00132.76	IS9
ATOM	42393	N	GLY	I	39	252.663	151.968	-11.760	1.00106.63	IS9
ATOM	42394	CA	GLY	I	39	252.294	150.795	-12.533	1.00106.63	IS9
ATOM	42395	C	GLY	I	39	250.849	150.347	-12.395	1.00106.63	IS9
ATOM	42396	O	GLY	I	39	250.575	149.296	-11.825	1.00106.63	IS9
ATOM	42397	N	LEU	I	40	249.929	151.153	-12.918	1.00 78.60	IS9
ATOM	42398	CA	LEU	I	40	248.501	150.860	-12.894	1.00 78.60	IS9
ATOM	42399	CB	LEU	I	40	247.839	151.465	-11.666	1.00 67.87	IS9
ATOM	42400	CG	LEU	I	40	248.127	150.747	-10.350	1.00 67.87	IS9
ATOM	42401	CD1	LEU	I	40	247.307	151.402	-9.243	1.00 67.87	IS9
ATOM	42402	CD2	LEU	I	40	247.779	149.262	-10.468	1.00 67.87	IS9
ATOM	42403	C	LEU	I	40	247.900	151.479	-14.135	1.00 78.60	IS9
ATOM	42404	O	LEU	I	40	247.423	152.616	-14.102	1.00 78.60	IS9
ATOM	42405	N	VAL	I	41	247.930	150.720	-15.225	1.00 95.86	IS9
ATOM	42406	CA	VAL	I	41	247.429	151.164	-16.525	1.00 95.86	IS9
ATOM	42407	CB	VAL	I	41	247.004	149.960	-17.379	1.00117.23	IS9
ATOM	42408	CG1	VAL	I	41	247.090	150.315	-18.859	1.00117.23	IS9
ATOM	42409	CG2	VAL	I	41	247.871	148.763	-17.048	1.00117.23	IS9
ATOM	42410	C	VAL	I	41	246.262	152.158	-16.494	1.00 95.86	IS9
ATOM	42411	O	VAL	I	41	246.174	153.048	-17.342	1.00 95.86	IS9

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ATOM	42412	N	ARG	I	42	245.366	152.004	-15.524	1.00131.73	IS9
ATOM	42413	CA	ARG	I	42	244.206	152.883	-15.415	1.00131.73	IS9
ATOM	42414	CB	ARG	I	42	243.243	152.342	-14.358	1.00 99.08	IS9
ATOM	42415	CG	ARG	I	42	242.531	151.064	-14.763	1.00 99.08	IS9
ATOM	42416	CD	ARG	I	42	241.042	151.314	-14.876	1.00 99.08	IS9
ATOM	42417	NE	ARG	I	42	240.468	151.694	-13.590	1.00 99.08	IS9
ATOM	42418	CZ	ARG	I	42	239.515	152.606	-13.445	1.00 99.08	IS9
ATOM	42419	NH1	ARG	I	42	239.030	153.235	-14.507	1.00 99.08	IS9
ATOM	42420	NH2	ARG	I	42	239.048	152.889	-12.241	1.00 99.08	IS9
ATOM	42421	C	ARG	I	42	244.553	154.333	-15.089	1.00131.73	IS9
ATOM	42422	O	ARG	I	42	244.092	155.251	-15.770	1.00131.73	IS9
ATOM	42423	N	ALA	I	43	245.358	154.519	-14.044	1.00110.51	IS9
ATOM	42424	CA	ALA	I	43	245.796	155.835	-13.570	1.00110.51	IS9
ATOM	42425	CB	ALA	I	43	247.315	155.849	-13.454	1.00140.38	IS9
ATOM	42426	C	ALA	I	43	245.325	157.019	-14.422	1.00110.51	IS9
ATOM	42427	O	ALA	I	43	244.526	157.849	-13.977	1.00110.51	IS9
ATOM	42428	N	VAL	I	44	245.840	157.078	-15.645	1.00 98.23	IS9
ATOM	42429	CA	VAL	I	44	245.525	158.120	-16.615	1.00 98.23	IS9
ATOM	42430	CB	VAL	I	44	245.871	157.630	-18.018	1.00 97.19	IS9
ATOM	42431	CG1	VAL	I	44	245.746	158.753	-19.017	1.00 97.19	IS9
ATOM	42432	CG2	VAL	I	44	247.269	157.051	-18.014	1.00 97.19	IS9
ATOM	42433	C	VAL	I	44	244.068	158.578	-16.621	1.00 98.23	IS9
ATOM	42434	O	VAL	I	44	243.734	159.596	-17.232	1.00 98.23	IS9
ATOM	42435	N	ALA	I	45	243.201	157.825	-15.953	1.00115.14	IS9
ATOM	42436	CA	ALA	I	45	241.780	158.152	-15.892	1.00115.14	IS9
ATOM	42437	CB	ALA	I	45	240.999	156.947	-15.389	1.00133.78	IS9
ATOM	42438	C	ALA	I	45	241.476	159.366	-15.015	1.00115.14	IS9
ATOM	42439	O	ALA	I	45	240.792	160.296	-15.445	1.00115.14	IS9
ATOM	42440	N	ALA	I	46	241.983	159.346	-13.785	1.00114.72	IS9
ATOM	42441	CA	ALA	I	46	241.765	160.431	-12.829	1.00114.72	IS9
ATOM	42442	CB	ALA	I	46	242.755	160.304	-11.666	1.00 63.04	IS9
ATOM	42443	C	ALA	I	46	241.871	161.827	-13.443	1.00114.72	IS9
ATOM	42444	O	ALA	I	46	241.072	162.714	-13.133	1.00114.72	IS9
ATOM	42445	N	LEU	I	47	242.857	162.009	-14.316	1.00105.74	IS9
ATOM	42446	CA	LEU	I	47	243.101	163.295	-14.964	1.00105.74	IS9
ATOM	42447	CB	LEU	I	47	244.588	163.429	-15.303	1.00120.44	IS9
ATOM	42448	CG	LEU	I	47	245.584	163.049	-14.202	1.00120.44	IS9
ATOM	42449	CD1	LEU	I	47	247.000	163.272	-14.710	1.00120.44	IS9
ATOM	42450	CD2	LEU	I	47	245.328	163.873	-12.951	1.00120.44	IS9
ATOM	42451	C	LEU	I	47	242.275	163.516	-16.227	1.00105.74	IS9
ATOM	42452	O	LEU	I	47	242.324	164.591	-16.821	1.00105.74	IS9
ATOM	42453	N	GLU	I	48	241.518	162.507	-16.639	1.00 87.83	IS9
ATOM	42454	CA	GLU	I	48	240.700	162.643	-17.832	1.00 87.83	IS9
ATOM	42455	CB	GLU	I	48	239.894	161.365	-18.071	1.00175.21	IS9
ATOM	42456	CG	GLU	I	48	239.204	161.311	-19.431	1.00175.21	IS9
ATOM	42457	CD	GLU	I	48	240.182	161.287	-20.597	1.00175.21	IS9
ATOM	42458	OE1	GLU	I	48	240.989	162.231	-20.731	1.00175.21	IS9
ATOM	42459	OE2	GLU	I	48	240.141	160.321	-21.386	1.00175.21	IS9
ATOM	42460	C	GLU	I	48	239.764	163.864	-17.752	1.00 87.83	IS9
ATOM	42461	O	GLU	I	48	239.544	164.560	-18.749	1.00 87.83	IS9
ATOM	42462	N	PRO	I	49	239.200	164.148	-16.568	1.00120.26	IS9
ATOM	42463	CD	PRO	I	49	239.284	163.499	-15.248	1.00 88.64	IS9
ATOM	42464	CA	PRO	I	49	238.316	165.316	-16.521	1.00120.26	IS9
ATOM	42465	CB	PRO	I	49	237.748	165.261	-15.107	1.00 88.64	IS9
ATOM	42466	CG	PRO	I	49	238.860	164.610	-14.327	1.00 88.64	IS9
ATOM	42467	C	PRO	I	49	239.068	166.612	-16.811	1.00120.26	IS9
ATOM	42468	O	PRO	I	49	238.470	167.617	-17.191	1.00120.26	IS9
ATOM	42469	N	LEU	I	50	240.385	166.584	-16.628	1.00106.05	IS9
ATOM	42470	CA	LEU	I	50	241.202	167.762	-16.893	1.00106.05	IS9
ATOM	42471	CB	LEU	I	50	242.611	167.582	-16.326	1.00112.36	IS9
ATOM	42472	CG	LEU	I	50	242.700	167.607	-14.797	1.00112.36	IS9
ATOM	42473	CD1	LEU	I	50	244.107	167.251	-14.355	1.00112.36	IS9
ATOM	42474	CD2	LEU	I	50	242.304	168.992	-14.285	1.00112.36	IS9
ATOM	42475	C	LEU	I	50	241.270	167.998	-18.393	1.00106.05	IS9
ATOM	42476	O	LEU	I	50	240.954	169.090	-18.864	1.00106.05	IS9
ATOM	42477	N	ARG	I	51	241.671	166.964	-19.134	1.00100.23	IS9
ATOM	42478	CA	ARG	I	51	241.770	167.036	-20.594	1.00100.23	IS9
ATOM	42479	CB	ARG	I	51	242.206	165.692	-21.186	1.00178.32	IS9
ATOM	42480	CG	ARG	I	51	243.383	165.042	-20.497	1.00178.32	IS9
ATOM	42481	CD	ARG	I	51	243.833	163.799	-21.246	1.00178.32	IS9
ATOM	42482	NE	ARG	I	51	244.761	162.998	-20.452	1.00178.32	IS9
ATOM	42483	CZ	ARG	I	51	244.397	162.204	-19.448	1.00178.32	IS9
ATOM	42484	NH1	ARG	I	51	243.120	162.091	-19.110	1.00178.32	IS9
ATOM	42485	NH2	ARG	I	51	245.315	161.529	-18.771	1.00178.32	IS9
ATOM	42486	C	ARG	I	51	240.406	167.388	-21.168	1.00100.23	IS9
ATOM	42487	O	ARG	I	51	240.287	167.767	-22.333	1.00100.23	IS9
ATOM	42488	N	ALA	I	52	239.379	167.239	-20.338	1.00101.62	IS9

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ATOM	42489	CA	ALA	I	52	238.012	167.533	-20.737	1.00101.62	IS9
ATOM	42490	CB	ALA	I	52	237.083	167.338	-19.558	1.00 78.66	IS9
ATOM	42491	C	ALA	I	52	237.907	168.960	-21.251	1.00101.62	IS9
ATOM	42492	O	ALA	I	52	237.358	169.203	-22.325	1.00101.62	IS9
ATOM	42493	N	VAL	I	53	238.451	169.894	-20.478	1.00138.49	IS9
ATOM	42494	CA	VAL	I	53	238.421	171.310	-20.822	1.00138.49	IS9
ATOM	42495	CB	VAL	I	53	237.815	172.122	-19.671	1.00127.51	IS9
ATOM	42496	CG1	VAL	I	53	236.315	171.892	-19.617	1.00127.51	IS9
ATOM	42497	CG2	VAL	I	53	238.464	171.702	-18.348	1.00127.51	IS9
ATOM	42498	C	VAL	I	53	239.798	171.887	-21.145	1.00138.49	IS9
ATOM	42499	O	VAL	I	53	239.939	173.095	-21.329	1.00138.49	IS9
ATOM	42500	N	ASP	I	54	240.801	171.013	-21.211	1.00127.83	IS9
ATOM	42501	CA	ASP	I	54	242.189	171.388	-21.503	1.00127.83	IS9
ATOM	42502	CB	ASP	I	54	242.252	172.359	-22.687	1.00130.77	IS9
ATOM	42503	CG	ASP	I	54	242.011	171.671	-24.015	1.00130.77	IS9
ATOM	42504	OD1	ASP	I	54	242.772	170.740	-24.354	1.00130.77	IS9
ATOM	42505	OD2	ASP	I	54	241.060	172.062	-24.721	1.00130.77	IS9
ATOM	42506	C	ASP	I	54	242.947	171.973	-20.311	1.00127.83	IS9
ATOM	42507	O	ASP	I	54	243.500	173.068	-20.380	1.00127.83	IS9
ATOM	42508	N	ALA	I	55	242.976	171.222	-19.217	1.00111.21	IS9
ATOM	42509	CA	ALA	I	55	243.673	171.652	-18.019	1.00111.21	IS9
ATOM	42510	CB	ALA	I	55	242.866	171.280	-16.783	1.00163.68	IS9
ATOM	42511	C	ALA	I	55	245.047	170.990	-17.976	1.00111.21	IS9
ATOM	42512	O	ALA	I	55	245.771	170.987	-18.976	1.00111.21	IS9
ATOM	42513	N	LEU	I	56	245.383	170.419	-16.818	1.00178.24	IS9
ATOM	42514	CA	LEU	I	56	246.669	169.761	-16.586	1.00178.24	IS9
ATOM	42515	CB	LEU	I	56	246.878	168.590	-17.559	1.00113.17	IS9
ATOM	42516	CG	LEU	I	56	247.559	167.325	-17.005	1.00113.17	IS9
ATOM	42517	CD1	LEU	I	56	247.826	166.357	-18.145	1.00113.17	IS9
ATOM	42518	CD2	LEU	I	56	248.860	167.672	-16.298	1.00113.17	IS9
ATOM	42519	C	LEU	I	56	247.760	170.807	-16.780	1.00178.24	IS9
ATOM	42520	O	LEU	I	56	248.279	171.365	-15.812	1.00178.24	IS9
ATOM	42521	N	GLY	I	57	248.101	171.072	-18.036	1.00157.96	IS9
ATOM	42522	CA	GLY	I	57	249.106	172.074	-18.330	1.00157.96	IS9
ATOM	42523	C	GLY	I	57	248.455	173.439	-18.218	1.00157.96	IS9
ATOM	42524	O	GLY	I	57	248.483	174.240	-19.151	1.00157.96	IS9
ATOM	42525	N	ARG	I	58	247.848	173.690	-17.065	1.00128.76	IS9
ATOM	42526	CA	ARG	I	58	247.172	174.951	-16.794	1.00128.76	IS9
ATOM	42527	CB	ARG	I	58	245.877	175.046	-17.609	1.00132.89	IS9
ATOM	42528	CG	ARG	I	58	245.369	176.469	-17.857	1.00132.89	IS9
ATOM	42529	CD	ARG	I	58	245.063	177.234	-16.564	1.00132.89	IS9
ATOM	42530	NE	ARG	I	58	243.659	177.627	-16.463	1.00132.89	IS9
ATOM	42531	CZ	ARG	I	58	242.992	178.272	-17.415	1.00132.89	IS9
ATOM	42532	NH1	ARG	I	58	243.591	178.605	-18.552	1.00132.89	IS9
ATOM	42533	NH2	ARG	I	58	241.719	178.583	-17.229	1.00132.89	IS9
ATOM	42534	C	ARG	I	58	246.857	174.947	-15.305	1.00128.76	IS9
ATOM	42535	O	ARG	I	58	246.910	175.979	-14.633	1.00128.76	IS9
ATOM	42536	N	PHE	I	59	246.530	173.766	-14.796	1.00119.68	IS9
ATOM	42537	CA	PHE	I	59	246.226	173.608	-13.385	1.00119.68	IS9
ATOM	42538	CB	PHE	I	59	244.900	172.887	-13.185	1.00103.22	IS9
ATOM	42539	CG	PHE	I	59	243.743	173.799	-12.923	1.00103.22	IS9
ATOM	42540	CD1	PHE	I	59	242.870	174.155	-13.952	1.00103.22	IS9
ATOM	42541	CD2	PHE	I	59	243.504	174.279	-11.637	1.00103.22	IS9
ATOM	42542	CE1	PHE	I	59	241.767	174.975	-13.703	1.00103.22	IS9
ATOM	42543	CE2	PHE	I	59	242.408	175.098	-11.373	1.00103.22	IS9
ATOM	42544	CZ	PHE	I	59	241.535	175.447	-12.408	1.00103.22	IS9
ATOM	42545	C	PHE	I	59	247.306	172.803	-12.699	1.00119.68	IS9
ATOM	42546	O	PHE	I	59	248.320	172.449	-13.293	1.00119.68	IS9
ATOM	42547	N	ASP	I	60	247.059	172.513	-11.434	1.00112.23	IS9
ATOM	42548	CA	ASP	I	60	247.963	171.736	-10.608	1.00112.23	IS9
ATOM	42549	CB	ASP	I	60	248.978	172.659	-9.925	1.00161.88	IS9
ATOM	42550	CG	ASP	I	60	250.196	171.916	-9.409	1.00161.88	IS9
ATOM	42551	OD1	ASP	I	60	250.019	170.914	-8.685	1.00161.88	IS9
ATOM	42552	OD2	ASP	I	60	251.331	172.341	-9.723	1.00161.88	IS9
ATOM	42553	C	ASP	I	60	247.000	171.146	-9.585	1.00112.23	IS9
ATOM	42554	O	ASP	I	60	245.854	171.600	-9.490	1.00112.23	IS9
ATOM	42555	N	ALA	I	61	247.427	170.144	-8.824	1.00116.98	IS9
ATOM	42556	CA	ALA	I	61	246.513	169.573	-7.849	1.00116.98	IS9
ATOM	42557	CB	ALA	I	61	245.543	168.625	-8.543	1.00 82.71	IS9
ATOM	42558	C	ALA	I	61	247.157	168.869	-6.675	1.00116.98	IS9
ATOM	42559	O	ALA	I	61	248.117	168.105	-6.826	1.00116.98	IS9
ATOM	42560	N	TYR	I	62	246.612	169.159	-5.497	1.00 95.32	IS9
ATOM	42561	CA	TYR	I	62	247.043	168.542	-4.252	1.00 95.32	IS9
ATOM	42562	CB	TYR	I	62	247.105	169.568	-3.126	1.00 83.34	IS9
ATOM	42563	CG	TYR	I	62	247.441	168.949	-1.793	1.00 83.34	IS9
ATOM	42564	CD1	TYR	I	62	248.714	168.431	-1.546	1.00 83.34	IS9
ATOM	42565	CE1	TYR	I	62	249.021	167.812	-0.326	1.00 83.34	IS9

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ATOM	42566	CD2	TYR	I	62	246.478	168.839	-0.791	1.00	83.34	IS9
ATOM	42567	CE2	TYR	I	62	246.771	168.222	0.427	1.00	83.34	IS9
ATOM	42568	CZ	TYR	I	62	248.044	167.709	0.656	1.00	83.34	IS9
ATOM	42569	OH	TYR	I	62	248.342	167.086	1.852	1.00	83.34	IS9
ATOM	42570	C	TYR	I	62	245.904	167.575	-3.990	1.00	95.32	IS9
ATOM	42571	O	TYR	I	62	244.739	167.976	-4.048	1.00	95.32	IS9
ATOM	42572	N	ILE	I	63	246.218	166.313	-3.706	1.00	102.27	IS9
ATOM	42573	CA	ILE	I	63	245.160	165.328	-3.495	1.00	102.27	IS9
ATOM	42574	CB	ILE	I	63	244.957	164.489	-4.764	1.00	93.77	IS9
ATOM	42575	CG2	ILE	I	63	244.035	163.332	-4.474	1.00	93.77	IS9
ATOM	42576	CG1	ILE	I	63	244.390	165.372	-5.879	1.00	93.77	IS9
ATOM	42577	CD1	ILE	I	63	244.409	164.727	-7.260	1.00	93.77	IS9
ATOM	42578	C	ILE	I	63	245.308	164.364	-2.329	1.00	102.27	IS9
ATOM	42579	O	ILE	I	63	246.374	163.785	-2.117	1.00	102.27	IS9
ATOM	42580	N	THR	I	64	244.214	164.200	-1.585	1.00	116.41	IS9
ATOM	42581	CA	THR	I	64	244.159	163.279	-0.453	1.00	116.41	IS9
ATOM	42582	CB	THR	I	64	243.429	163.864	0.753	1.00	134.28	IS9
ATOM	42583	OG1	THR	I	64	243.934	165.173	1.031	1.00	134.28	IS9
ATOM	42584	CG2	THR	I	64	243.637	162.968	1.972	1.00	134.28	IS9
ATOM	42585	C	THR	I	64	243.319	162.125	-0.957	1.00	116.41	IS9
ATOM	42586	O	THR	I	64	242.388	162.333	-1.734	1.00	116.41	IS9
ATOM	42587	N	VAL	I	65	243.625	160.916	-0.504	1.00	92.81	IS9
ATOM	42588	CA	VAL	I	65	242.891	159.751	-0.968	1.00	92.81	IS9
ATOM	42589	CB	VAL	I	65	243.493	159.283	-2.334	1.00	94.73	IS9
ATOM	42590	CG1	VAL	I	65	244.950	158.860	-2.155	1.00	94.73	IS9
ATOM	42591	CG2	VAL	I	65	242.666	158.174	-2.931	1.00	94.73	IS9
ATOM	42592	C	VAL	I	65	242.932	158.634	0.076	1.00	92.81	IS9
ATOM	42593	O	VAL	I	65	243.986	158.068	0.344	1.00	92.81	IS9
ATOM	42594	N	ARG	I	66	241.779	158.330	0.672	1.00	97.21	IS9
ATOM	42595	CA	ARG	I	66	241.693	157.285	1.694	1.00	97.21	IS9
ATOM	42596	CB	ARG	I	66	241.661	157.931	3.085	1.00	133.60	IS9
ATOM	42597	CG	ARG	I	66	241.988	156.982	4.233	1.00	133.60	IS9
ATOM	42598	CD	ARG	I	66	241.089	157.228	5.441	1.00	133.60	IS9
ATOM	42599	NE	ARG	I	66	241.146	158.601	5.945	1.00	133.60	IS9
ATOM	42600	CZ	ARG	I	66	242.097	159.078	6.742	1.00	133.60	IS9
ATOM	42601	NH1	ARG	I	66	243.094	158.300	7.143	1.00	133.60	IS9
ATOM	42602	NH2	ARG	I	66	242.047	160.339	7.143	1.00	133.60	IS9
ATOM	42603	C	ARG	I	66	240.453	156.390	1.516	1.00	97.21	IS9
ATOM	42604	O	ARG	I	66	239.340	156.892	1.323	1.00	97.21	IS9
ATOM	42605	N	GLY	I	67	240.652	155.071	1.573	1.00	119.38	IS9
ATOM	42606	CA	GLY	I	67	239.542	154.136	1.432	1.00	119.38	IS9
ATOM	42607	C	GLY	I	67	239.550	153.241	0.199	1.00	119.38	IS9
ATOM	42608	O	GLY	I	67	239.877	153.687	-0.899	1.00	119.38	IS9
ATOM	42609	N	GLY	I	68	239.193	151.971	0.385	1.00	105.79	IS9
ATOM	42610	CA	GLY	I	68	239.138	151.016	-0.716	1.00	105.79	IS9
ATOM	42611	C	GLY	I	68	240.429	150.497	-1.344	1.00	105.79	IS9
ATOM	42612	O	GLY	I	68	241.304	149.942	-0.676	1.00	105.79	IS9
ATOM	42613	N	GLY	I	69	240.521	150.651	-2.662	1.00	81.09	IS9
ATOM	42614	CA	GLY	I	69	241.690	150.212	-3.404	1.00	81.09	IS9
ATOM	42615	C	GLY	I	69	242.047	151.252	-4.452	1.00	81.09	IS9
ATOM	42616	O	GLY	I	69	241.189	152.020	-4.892	1.00	81.09	IS9
ATOM	42617	N	LYS	I	70	243.312	151.269	-4.860	1.00	82.92	IS9
ATOM	42618	CA	LYS	I	70	243.793	152.233	-5.843	1.00	82.92	IS9
ATOM	42619	CB	LYS	I	70	245.252	151.922	-6.210	1.00	106.07	IS9
ATOM	42620	CG	LYS	I	70	246.208	152.269	-5.061	1.00	106.07	IS9
ATOM	42621	CD	LYS	I	70	247.643	151.825	-5.277	1.00	106.07	IS9
ATOM	42622	CE	LYS	I	70	248.465	152.089	-4.014	1.00	106.07	IS9
ATOM	42623	NZ	LYS	I	70	249.830	151.487	-4.048	1.00	106.07	IS9
ATOM	42624	C	LYS	I	70	242.919	152.349	-7.082	1.00	82.92	IS9
ATOM	42625	O	LYS	I	70	242.800	153.424	-7.663	1.00	82.92	IS9
ATOM	42626	N	SER	I	71	242.292	151.257	-7.485	1.00	103.44	IS9
ATOM	42627	CA	SER	I	71	241.416	151.326	-8.640	1.00	103.44	IS9
ATOM	42628	CB	SER	I	71	240.836	149.949	-8.955	1.00	117.05	IS9
ATOM	42629	OG	SER	I	71	239.807	150.060	-9.913	1.00	117.05	IS9
ATOM	42630	C	SER	I	71	240.286	152.312	-8.322	1.00	103.44	IS9
ATOM	42631	O	SER	I	71	240.094	153.302	-9.030	1.00	103.44	IS9
ATOM	42632	N	GLY	I	72	239.556	152.042	-7.242	1.00	100.48	IS9
ATOM	42633	CA	GLY	I	72	238.456	152.908	-6.846	1.00	100.48	IS9
ATOM	42634	C	GLY	I	72	238.890	154.324	-6.525	1.00	100.48	IS9
ATOM	42635	O	GLY	I	72	238.218	155.293	-6.884	1.00	100.48	IS9
ATOM	42636	N	GLN	I	73	240.015	154.443	-5.831	1.00	91.60	IS9
ATOM	42637	CA	GLN	I	73	240.538	155.746	-5.483	1.00	91.60	IS9
ATOM	42638	CB	GLN	I	73	241.878	155.619	-4.781	1.00	75.00	IS9
ATOM	42639	CG	GLN	I	73	241.854	154.735	-3.576	1.00	75.00	IS9
ATOM	42640	CD	GLN	I	73	243.144	154.831	-2.800	1.00	75.00	IS9
ATOM	42641	OE1	GLN	I	73	244.220	154.972	-3.386	1.00	75.00	IS9
ATOM	42642	NE2	GLN	I	73	243.052	154.749	-1.471	1.00	75.00	IS9

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ATOM	42643	C	GLN	I	73	240.730	156.538	-6.762	1.00	91.60	IS9
ATOM	42644	O	GLN	I	73	240.455	157.736	-6.800	1.00	91.60	IS9
ATOM	42645	N	ILE	I	74	241.205	155.871	-7.811	1.00	79.95	IS9
ATOM	42646	CA	ILE	I	74	241.420	156.549	-9.086	1.00	79.95	IS9
ATOM	42647	CB	ILE	I	74	241.940	155.584	-10.178	1.00	78.36	IS9
ATOM	42648	CG2	ILE	I	74	241.971	156.287	-11.540	1.00	78.36	IS9
ATOM	42649	CG1	ILE	I	74	243.341	155.104	-9.809	1.00	78.36	IS9
ATOM	42650	CD1	ILE	I	74	243.918	154.087	-10.765	1.00	78.36	IS9
ATOM	42651	C	ILE	I	74	240.141	157.205	-9.588	1.00	79.95	IS9
ATOM	42652	O	ILE	I	74	240.182	158.328	-10.094	1.00	79.95	IS9
ATOM	42653	N	ASP	I	75	239.012	156.511	-9.445	1.00	86.64	IS9
ATOM	42654	CA	ASP	I	75	237.734	157.052	-9.900	1.00	86.64	IS9
ATOM	42655	CB	ASP	I	75	236.678	155.945	-9.975	1.00	139.88	IS9
ATOM	42656	CG	ASP	I	75	236.774	155.133	-11.256	1.00	139.88	IS9
ATOM	42657	OD1	ASP	I	75	236.744	155.742	-12.348	1.00	139.88	IS9
ATOM	42658	OD2	ASP	I	75	236.871	153.890	-11.174	1.00	139.88	IS9
ATOM	42659	C	ASP	I	75	237.231	158.204	-9.027	1.00	86.64	IS9
ATOM	42660	O	ASP	I	75	236.621	159.158	-9.536	1.00	86.64	IS9
ATOM	42661	N	ALA	I	76	237.487	158.114	-7.719	1.00	81.99	IS9
ATOM	42662	CA	ALA	I	76	237.082	159.156	-6.772	1.00	81.99	IS9
ATOM	42663	CB	ALA	I	76	237.486	158.761	-5.344	1.00	58.00	IS9
ATOM	42664	C	ALA	I	76	237.792	160.438	-7.179	1.00	81.99	IS9
ATOM	42665	O	ALA	I	76	237.165	161.477	-7.414	1.00	81.99	IS9
ATOM	42666	N	ILE	I	77	239.115	160.331	-7.257	1.00	99.78	IS9
ATOM	42667	CA	ILE	I	77	239.983	161.431	-7.644	1.00	99.78	IS9
ATOM	42668	CB	ILE	I	77	241.432	160.936	-7.887	1.00	84.23	IS9
ATOM	42669	CG2	ILE	I	77	242.220	161.976	-8.665	1.00	84.23	IS9
ATOM	42670	CG1	ILE	I	77	242.108	160.616	-6.549	1.00	84.23	IS9
ATOM	42671	CD1	ILE	I	77	243.566	160.222	-6.681	1.00	84.23	IS9
ATOM	42672	C	ILE	I	77	239.475	162.062	-8.925	1.00	99.78	IS9
ATOM	42673	O	ILE	I	77	239.567	163.274	-9.106	1.00	99.78	IS9
ATOM	42674	N	LYS	I	78	238.935	161.232	-9.808	1.00	75.38	IS9
ATOM	42675	CA	LYS	I	78	238.430	161.704	-11.088	1.00	75.38	IS9
ATOM	42676	CB	LYS	I	78	238.267	160.515	-12.035	1.00	103.98	IS9
ATOM	42677	CG	LYS	I	78	238.123	160.890	-13.491	1.00	103.98	IS9
ATOM	42678	CD	LYS	I	78	236.671	161.095	-13.866	1.00	103.98	IS9
ATOM	42679	CE	LYS	I	78	235.859	159.851	-13.537	1.00	103.98	IS9
ATOM	42680	NZ	LYS	I	78	236.558	158.602	-13.967	1.00	103.98	IS9
ATOM	42681	C	LYS	I	78	237.117	162.466	-10.922	1.00	75.38	IS9
ATOM	42682	O	LYS	I	78	236.818	163.383	-11.695	1.00	75.38	IS9
ATOM	42683	N	LEU	I	79	236.342	162.092	-9.907	1.00	119.23	IS9
ATOM	42684	CA	LEU	I	79	235.075	162.767	-9.634	1.00	119.23	IS9
ATOM	42685	CB	LEU	I	79	234.139	161.862	-8.810	1.00	114.74	IS9
ATOM	42686	CG	LEU	I	79	232.691	162.279	-8.468	1.00	114.74	IS9
ATOM	42687	CD1	LEU	I	79	232.702	163.150	-7.237	1.00	114.74	IS9
ATOM	42688	CD2	LEU	I	79	232.025	162.998	-9.644	1.00	114.74	IS9
ATOM	42689	C	LEU	I	79	235.383	164.046	-8.868	1.00	119.23	IS9
ATOM	42690	O	LEU	I	79	234.637	165.022	-8.939	1.00	119.23	IS9
ATOM	42691	N	GLY	I	80	236.493	164.036	-8.137	1.00	119.78	IS9
ATOM	42692	CA	GLY	I	80	236.886	165.215	-7.387	1.00	119.78	IS9
ATOM	42693	C	GLY	I	80	237.330	166.304	-8.340	1.00	119.78	IS9
ATOM	42694	O	GLY	I	80	236.852	167.440	-8.277	1.00	119.78	IS9
ATOM	42695	N	ILE	I	81	238.252	165.935	-9.226	1.00	105.16	IS9
ATOM	42696	CA	ILE	I	81	238.791	166.830	-10.244	1.00	105.16	IS9
ATOM	42697	CB	ILE	I	81	239.891	166.112	-11.069	1.00	88.72	IS9
ATOM	42698	CG2	ILE	I	81	240.228	166.903	-12.323	1.00	88.72	IS9
ATOM	42699	CG1	ILE	I	81	241.126	165.904	-10.187	1.00	88.72	IS9
ATOM	42700	CD1	ILE	I	81	242.301	165.264	-10.896	1.00	88.72	IS9
ATOM	42701	C	ILE	I	81	237.672	167.298	-11.173	1.00	105.16	IS9
ATOM	42702	O	ILE	I	81	237.653	168.450	-11.606	1.00	105.16	IS9
ATOM	42703	N	ALA	I	82	236.737	166.401	-11.467	1.00	123.24	IS9
ATOM	42704	CA	ALA	I	82	235.614	166.730	-12.334	1.00	123.24	IS9
ATOM	42705	CB	ALA	I	82	234.831	165.463	-12.670	1.00	151.99	IS9
ATOM	42706	C	ALA	I	82	234.695	167.767	-11.671	1.00	123.24	IS9
ATOM	42707	O	ALA	I	82	234.010	168.529	-12.351	1.00	123.24	IS9
ATOM	42708	N	ARG	I	83	234.687	167.794	-10.342	1.00	104.66	IS9
ATOM	42709	CA	ARG	I	83	233.856	168.736	-9.605	1.00	104.66	IS9
ATOM	42710	CB	ARG	I	83	233.442	168.137	-8.277	1.00	99.56	IS9
ATOM	42711	CG	ARG	I	83	232.310	167.154	-8.362	1.00	99.56	IS9
ATOM	42712	CD	ARG	I	83	232.279	166.372	-7.069	1.00	99.56	IS9
ATOM	42713	NE	ARG	I	83	230.943	165.935	-6.691	1.00	99.56	IS9
ATOM	42714	CZ	ARG	I	83	230.685	165.335	-5.539	1.00	99.56	IS9
ATOM	42715	NH1	ARG	I	83	231.680	165.109	-4.689	1.00	99.56	IS9
ATOM	42716	NH2	ARG	I	83	229.444	164.989	-5.227	1.00	99.56	IS9
ATOM	42717	C	ARG	I	83	234.568	170.051	-9.340	1.00	104.66	IS9
ATOM	42718	O	ARG	I	83	234.109	171.109	-9.770	1.00	104.66	IS9
ATOM	42719	N	ALA	I	84	235.679	169.987	-8.612	1.00	106.87	IS9

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ATOM	42720	CA	ALA	I	84	236.438	171.190	-8.299	1.00106.87	IS9
ATOM	42721	CB	ALA	I	84	237.781	170.827	-7.694	1.00 83.17	IS9
ATOM	42722	C	ALA	I	84	236.636	171.997	-9.570	1.00106.87	IS9
ATOM	42723	O	ALA	I	84	236.790	173.212	-9.526	1.00106.87	IS9
ATOM	42724	N	LEU	I	85	236.619	171.311	-10.705	1.00 87.32	IS9
ATOM	42725	CA	LEU	I	85	236.785	171.956	-11.999	1.00 87.32	IS9
ATOM	42726	CB	LEU	I	85	236.961	170.889	-13.087	1.00146.44	IS9
ATOM	42727	CG	LEU	I	85	238.023	171.107	-14.172	1.00146.44	IS9
ATOM	42728	CD1	LEU	I	85	239.412	171.019	-13.558	1.00146.44	IS9
ATOM	42729	CD2	LEU	I	85	237.869	170.054	-15.264	1.00146.44	IS9
ATOM	42730	C	LEU	I	85	235.568	172.844	-12.327	1.00 87.32	IS9
ATOM	42731	O	LEU	I	85	235.672	173.798	-13.101	1.00 87.32	IS9
ATOM	42732	N	VAL	I	86	234.413	172.531	-11.748	1.00141.80	IS9
ATOM	42733	CA	VAL	I	86	233.216	173.326	-12.005	1.00141.80	IS9
ATOM	42734	CB	VAL	I	86	231.935	172.450	-11.955	1.00104.62	IS9
ATOM	42735	CG1	VAL	I	86	230.694	173.330	-11.904	1.00104.62	IS9
ATOM	42736	CG2	VAL	I	86	231.873	171.562	-13.199	1.00104.62	IS9
ATOM	42737	C	VAL	I	86	233.088	174.514	-11.048	1.00141.80	IS9
ATOM	42738	O	VAL	I	86	232.684	175.600	-11.463	1.00141.80	IS9
ATOM	42739	N	GLN	I	87	233.426	174.324	-9.775	1.00136.27	IS9
ATOM	42740	CA	GLN	I	87	233.358	175.440	-8.834	1.00136.27	IS9
ATOM	42741	CB	GLN	I	87	233.968	175.074	-7.485	1.00124.42	IS9
ATOM	42742	CG	GLN	I	87	233.166	174.077	-6.683	1.00124.42	IS9
ATOM	42743	CD	GLN	I	87	233.467	174.175	-5.205	1.00124.42	IS9
ATOM	42744	OE1	GLN	I	87	234.627	174.159	-4.793	1.00124.42	IS9
ATOM	42745	NE2	GLN	I	87	232.421	174.277	-4.395	1.00124.42	IS9
ATOM	42746	C	GLN	I	87	234.178	176.547	-9.465	1.00136.27	IS9
ATOM	42747	O	GLN	I	87	233.768	177.705	-9.493	1.00136.27	IS9
ATOM	42748	N	TYR	I	88	235.349	176.163	-9.967	1.00128.82	IS9
ATOM	42749	CA	TYR	I	88	236.251	177.082	-10.645	1.00128.82	IS9
ATOM	42750	CB	TYR	I	88	237.353	176.294	-11.360	1.00114.08	IS9
ATOM	42751	CG	TYR	I	88	238.254	177.132	-12.235	1.00114.08	IS9
ATOM	42752	CD1	TYR	I	88	239.278	177.900	-11.684	1.00114.08	IS9
ATOM	42753	CE1	TYR	I	88	240.093	178.697	-12.484	1.00114.08	IS9
ATOM	42754	CD2	TYR	I	88	238.065	177.177	-13.616	1.00114.08	IS9
ATOM	42755	CE2	TYR	I	88	238.871	177.969	-14.426	1.00114.08	IS9
ATOM	42756	CZ	TYR	I	88	239.883	178.729	-13.855	1.00114.08	IS9
ATOM	42757	OH	TYR	I	88	240.673	179.524	-14.656	1.00114.08	IS9
ATOM	42758	C	TYR	I	88	235.402	177.828	-11.661	1.00128.82	IS9
ATOM	42759	O	TYR	I	88	235.080	178.999	-11.485	1.00128.82	IS9
ATOM	42760	N	ASN	I	89	235.037	177.136	-12.728	1.00 98.67	IS9
ATOM	42761	CA	ASN	I	89	234.200	177.729	-13.748	1.00 98.67	IS9
ATOM	42762	CB	ASN	I	89	234.956	177.833	-15.072	1.00 95.99	IS9
ATOM	42763	CG	ASN	I	89	234.084	178.366	-16.193	1.00 95.99	IS9
ATOM	42764	OD1	ASN	I	89	233.109	179.071	-15.940	1.00 95.99	IS9
ATOM	42765	ND2	ASN	I	89	234.435	178.046	-17.437	1.00 95.99	IS9
ATOM	42766	C	ASN	I	89	232.984	176.827	-13.893	1.00 98.67	IS9
ATOM	42767	O	ASN	I	89	233.044	175.791	-14.555	1.00 98.67	IS9
ATOM	42768	N	PRO	I	90	231.858	177.207	-13.266	1.00135.95	IS9
ATOM	42769	CD	PRO	I	90	231.594	178.536	-12.692	1.00104.45	IS9
ATOM	42770	CA	PRO	I	90	230.620	176.424	-13.324	1.00135.95	IS9
ATOM	42771	CB	PRO	I	90	229.657	177.252	-12.486	1.00104.45	IS9
ATOM	42772	CG	PRO	I	90	230.086	178.640	-12.815	1.00104.45	IS9
ATOM	42773	C	PRO	I	90	230.145	176.262	-14.758	1.00135.95	IS9
ATOM	42774	O	PRO	I	90	229.155	175.578	-15.024	1.00135.95	IS9
ATOM	42775	N	ASP	I	91	230.866	176.903	-15.673	1.00120.06	IS9
ATOM	42776	CA	ASP	I	91	230.555	176.851	-17.092	1.00120.06	IS9
ATOM	42777	CB	ASP	I	91	231.211	178.032	-17.811	1.00143.31	IS9
ATOM	42778	CG	ASP	I	91	230.644	179.369	-17.375	1.00143.31	IS9
ATOM	42779	OD1	ASP	I	91	230.531	179.603	-16.151	1.00143.31	IS9
ATOM	42780	OD2	ASP	I	91	230.320	180.188	-18.260	1.00143.31	IS9
ATOM	42781	C	ASP	I	91	231.031	175.541	-17.717	1.00120.06	IS9
ATOM	42782	O	ASP	I	91	230.606	175.178	-18.813	1.00120.06	IS9
ATOM	42783	N	TYR	I	92	231.907	174.832	-17.013	1.00112.09	IS9
ATOM	42784	CA	TYR	I	92	232.439	173.568	-17.509	1.00112.09	IS9
ATOM	42785	CB	TYR	I	92	233.568	173.095	-16.592	1.00130.78	IS9
ATOM	42786	CG	TYR	I	92	234.867	173.839	-16.817	1.00130.78	IS9
ATOM	42787	CD1	TYR	I	92	235.942	173.684	-15.942	1.00130.78	IS9
ATOM	42788	CE1	TYR	I	92	237.147	174.355	-16.152	1.00130.78	IS9
ATOM	42789	CD2	TYR	I	92	235.029	174.688	-17.916	1.00130.78	IS9
ATOM	42790	CE2	TYR	I	92	236.229	175.362	-18.136	1.00130.78	IS9
ATOM	42791	CZ	TYR	I	92	237.282	175.191	-17.249	1.00130.78	IS9
ATOM	42792	OH	TYR	I	92	238.468	175.856	-17.456	1.00130.78	IS9
ATOM	42793	C	TYR	I	92	231.394	172.462	-17.683	1.00112.09	IS9
ATOM	42794	O	TYR	I	92	231.500	171.643	-18.602	1.00112.09	IS9
ATOM	42795	N	ARG	I	93	230.395	172.439	-16.805	1.00 95.65	IS9
ATOM	42796	CA	ARG	I	93	229.333	171.446	-16.886	1.00 95.65	IS9

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ATOM	42797	CB	ARG	I	93	228.101	171.912	-16.113	1.00148.04	IS9
ATOM	42798	CG	ARG	I	93	228.308	171.983	-14.628	1.00148.04	IS9
ATOM	42799	CD	ARG	I	93	226.985	171.898	-13.912	1.00148.04	IS9
ATOM	42800	NE	ARG	I	93	227.171	171.398	-12.555	1.00148.04	IS9
ATOM	42801	CZ	ARG	I	93	226.188	170.972	-11.766	1.00148.04	IS9
ATOM	42802	NH1	ARG	I	93	224.935	170.984	-12.198	1.00148.04	IS9
ATOM	42803	NH2	ARG	I	93	226.459	170.526	-10.542	1.00148.04	IS9
ATOM	42804	C	ARG	I	93	228.935	171.180	-18.331	1.00 95.65	IS9
ATOM	42805	O	ARG	I	93	229.081	170.069	-18.821	1.00 95.65	IS9
ATOM	42806	N	ALA	I	94	228.440	172.209	-19.011	1.00102.61	IS9
ATOM	42807	CA	ALA	I	94	228.004	172.094	-20.403	1.00102.61	IS9
ATOM	42808	CB	ALA	I	94	227.963	173.467	-21.049	1.00 73.77	IS9
ATOM	42809	C	ALA	I	94	228.844	171.153	-21.257	1.00102.61	IS9
ATOM	42810	O	ALA	I	94	228.334	170.569	-22.213	1.00102.61	IS9
ATOM	42811	N	LYS	I	95	230.126	171.012	-20.924	1.00118.09	IS9
ATOM	42812	CA	LYS	I	95	231.011	170.129	-21.676	1.00118.09	IS9
ATOM	42813	CB	LYS	I	95	232.203	170.909	-22.230	1.00165.88	IS9
ATOM	42814	CG	LYS	I	95	232.200	171.017	-23.745	1.00165.88	IS9
ATOM	42815	CD	LYS	I	95	232.151	169.639	-24.394	1.00165.88	IS9
ATOM	42816	CE	LYS	I	95	232.046	169.741	-25.909	1.00165.88	IS9
ATOM	42817	NZ	LYS	I	95	232.037	168.401	-26.561	1.00165.88	IS9
ATOM	42818	C	LYS	I	95	231.522	168.961	-20.842	1.00118.09	IS9
ATOM	42819	O	LYS	I	95	231.731	167.860	-21.356	1.00118.09	IS9
ATOM	42820	N	LEU	I	96	231.708	169.204	-19.552	1.00138.43	IS9
ATOM	42821	CA	LEU	I	96	232.206	168.191	-18.632	1.00138.43	IS9
ATOM	42822	CB	LEU	I	96	232.748	168.887	-17.384	1.00134.78	IS9
ATOM	42823	CG	LEU	I	96	233.414	168.047	-16.300	1.00134.78	IS9
ATOM	42824	CD1	LEU	I	96	234.556	167.242	-16.892	1.00134.78	IS9
ATOM	42825	CD2	LEU	I	96	233.923	168.972	-15.209	1.00134.78	IS9
ATOM	42826	C	LEU	I	96	231.167	167.131	-18.234	1.00138.43	IS9
ATOM	42827	O	LEU	I	96	231.527	166.056	-17.752	1.00138.43	IS9
ATOM	42828	N	LYS	I	97	229.885	167.431	-18.439	1.00114.97	IS9
ATOM	42829	CA	LYS	I	97	228.806	166.505	-18.087	1.00114.97	IS9
ATOM	42830	CB	LYS	I	97	227.551	167.267	-17.660	1.00198.84	IS9
ATOM	42831	CG	LYS	I	97	227.600	167.803	-16.251	1.00198.84	IS9
ATOM	42832	CD	LYS	I	97	226.226	168.266	-15.800	1.00198.84	IS9
ATOM	42833	CE	LYS	I	97	226.257	168.710	-14.349	1.00198.84	IS9
ATOM	42834	NZ	LYS	I	97	224.909	169.027	-13.823	1.00198.84	IS9
ATOM	42835	C	LYS	I	97	228.406	165.500	-19.158	1.00114.97	IS9
ATOM	42836	O	LYS	I	97	228.198	164.333	-18.848	1.00114.97	IS9
ATOM	42837	N	PRO	I	98	228.258	165.938	-20.425	1.00128.41	IS9
ATOM	42838	CD	PRO	I	98	228.254	167.314	-20.953	1.00105.84	IS9
ATOM	42839	CA	PRO	I	98	227.874	164.992	-21.475	1.00128.41	IS9
ATOM	42840	CB	PRO	I	98	228.003	165.822	-22.743	1.00105.84	IS9
ATOM	42841	CG	PRO	I	98	227.517	167.152	-22.282	1.00105.84	IS9
ATOM	42842	C	PRO	I	98	228.734	163.736	-21.498	1.00128.41	IS9
ATOM	42843	O	PRO	I	98	228.394	162.762	-22.168	1.00128.41	IS9
ATOM	42844	N	LEU	I	99	229.849	163.766	-20.769	1.00107.03	IS9
ATOM	42845	CA	LEU	I	99	230.747	162.615	-20.675	1.00107.03	IS9
ATOM	42846	CB	LEU	I	99	232.209	163.057	-20.747	1.00 99.58	IS9
ATOM	42847	CG	LEU	I	99	232.752	163.520	-22.100	1.00 99.58	IS9
ATOM	42848	CD1	LEU	I	99	232.606	162.373	-23.090	1.00 99.58	IS9
ATOM	42849	CD2	LEU	I	99	232.015	164.770	-22.587	1.00 99.58	IS9
ATOM	42850	C	LEU	I	99	230.491	161.879	-19.361	1.00107.03	IS9
ATOM	42851	O	LEU	I	99	231.029	160.799	-19.127	1.00107.03	IS9
ATOM	42852	N	GLY	I	100	229.678	162.492	-18.503	1.00109.01	IS9
ATOM	42853	CA	GLY	I	100	229.314	161.882	-17.237	1.00109.01	IS9
ATOM	42854	C	GLY	I	100	230.124	162.208	-16.002	1.00109.01	IS9
ATOM	42855	O	GLY	I	100	229.551	162.334	-14.926	1.00109.01	IS9
ATOM	42856	N	PHE	I	101	231.440	162.341	-16.159	1.00131.10	IS9
ATOM	42857	CA	PHE	I	101	232.365	162.615	-15.052	1.00131.10	IS9
ATOM	42858	CB	PHE	I	101	233.420	163.644	-15.470	1.00114.99	IS9
ATOM	42859	CG	PHE	I	101	234.270	163.213	-16.625	1.00114.99	IS9
ATOM	42860	CD1	PHE	I	101	233.891	163.498	-17.935	1.00114.99	IS9
ATOM	42861	CD2	PHE	I	101	235.466	162.544	-16.407	1.00114.99	IS9
ATOM	42862	CE1	PHE	I	101	234.698	163.124	-19.015	1.00114.99	IS9
ATOM	42863	CE2	PHE	I	101	236.277	162.166	-17.479	1.00114.99	IS9
ATOM	42864	CZ	PHE	I	101	235.889	162.460	-18.788	1.00114.99	IS9
ATOM	42865	C	PHE	I	101	231.759	163.066	-13.723	1.00131.10	IS9
ATOM	42866	O	PHE	I	101	232.209	162.635	-12.658	1.00131.10	IS9
ATOM	42867	N	LEU	I	102	230.755	163.939	-13.780	1.00126.73	IS9
ATOM	42868	CA	LEU	I	102	230.121	164.438	-12.567	1.00126.73	IS9
ATOM	42869	CB	LEU	I	102	229.298	165.692	-12.869	1.00107.36	IS9
ATOM	42870	CG	LEU	I	102	230.137	166.937	-13.185	1.00107.36	IS9
ATOM	42871	CD1	LEU	I	102	229.219	168.123	-13.383	1.00107.36	IS9
ATOM	42872	CD2	LEU	I	102	231.122	167.220	-12.047	1.00107.36	IS9
ATOM	42873	C	LEU	I	102	229.258	163.407	-11.861	1.00126.73	IS9

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ATOM	42874	O	LEU	I	102	229.034	163.508	-10.654	1.00126.73	IS9
ATOM	42875	N	THR	I	103	228.778	162.417	-12.608	1.00 96.36	IS9
ATOM	42876	CA	THR	I	103	227.952	161.355	-12.033	1.00 96.36	IS9
ATOM	42877	CB	THR	I	103	227.415	160.399	-13.106	1.00 99.54	IS9
ATOM	42878	OG1	THR	I	103	226.640	161.123	-14.069	1.00 99.54	IS9
ATOM	42879	CG2	THR	I	103	226.553	159.345	-12.462	1.00 99.54	IS9
ATOM	42880	C	THR	I	103	228.797	160.519	-11.085	1.00 96.36	IS9
ATOM	42881	O	THR	I	103	229.923	160.156	-11.410	1.00 96.36	IS9
ATOM	42882	N	ARG	I	104	228.257	160.211	-9.916	1.00113.99	IS9
ATOM	42883	CA	ARG	I	104	228.994	159.408	-8.955	1.00113.99	IS9
ATOM	42884	CB	ARG	I	104	228.810	159.984	-7.553	1.00 91.40	IS9
ATOM	42885	CG	ARG	I	104	229.731	159.399	-6.506	1.00 91.40	IS9
ATOM	42886	CD	ARG	I	104	229.108	158.227	-5.780	1.00 91.40	IS9
ATOM	42887	NE	ARG	I	104	230.025	157.658	-4.797	1.00 91.40	IS9
ATOM	42888	CZ	ARG	I	104	229.719	156.644	-3.993	1.00 91.40	IS9
ATOM	42889	NH1	ARG	I	104	228.515	156.098	-4.065	1.00 91.40	IS9
ATOM	42890	NH2	ARG	I	104	230.610	156.167	-3.126	1.00 91.40	IS9
ATOM	42891	C	ARG	I	104	228.468	157.976	-9.029	1.00113.99	IS9
ATOM	42892	O	ARG	I	104	227.455	157.650	-8.409	1.00113.99	IS9
ATOM	42893	N	ASP	I	105	229.159	157.135	-9.802	1.00133.36	IS9
ATOM	42894	CA	ASP	I	105	228.782	155.732	-10.003	1.00133.36	IS9
ATOM	42895	CB	ASP	I	105	229.891	155.000	-10.764	1.00125.26	IS9
ATOM	42896	CG	ASP	I	105	229.445	153.655	-11.291	1.00125.26	IS9
ATOM	42897	OD1	ASP	I	105	229.128	152.774	-10.466	1.00125.26	IS9
ATOM	42898	OD2	ASP	I	105	229.406	153.482	-12.530	1.00125.26	IS9
ATOM	42899	C	ASP	I	105	228.500	155.030	-8.678	1.00133.36	IS9
ATOM	42900	O	ASP	I	105	229.401	154.872	-7.844	1.00133.36	IS9
ATOM	42901	N	ALA	I	106	227.252	154.591	-8.501	1.00 81.97	IS9
ATOM	42902	CA	ALA	I	106	226.825	153.949	-7.254	1.00 81.97	IS9
ATOM	42903	CB	ALA	I	106	225.384	154.333	-6.965	1.00 74.19	IS9
ATOM	42904	C	ALA	I	106	226.982	152.433	-7.138	1.00 81.97	IS9
ATOM	42905	O	ALA	I	106	226.496	151.835	-6.179	1.00 81.97	IS9
ATOM	42906	N	ARG	I	107	227.656	151.815	-8.103	1.00 65.85	IS9
ATOM	42907	CA	ARG	I	107	227.858	150.374	-8.076	1.00 65.85	IS9
ATOM	42908	CB	ARG	I	107	228.589	149.925	-9.340	1.00110.95	IS9
ATOM	42909	CG	ARG	I	107	227.834	150.221	-10.625	1.00110.95	IS9
ATOM	42910	CD	ARG	I	107	228.490	149.533	-11.805	1.00110.95	IS9
ATOM	42911	NE	ARG	I	107	229.840	150.027	-12.061	1.00110.95	IS9
ATOM	42912	CZ	ARG	I	107	230.858	149.254	-12.431	1.00110.95	IS9
ATOM	42913	NH1	ARG	I	107	230.679	147.947	-12.585	1.00110.95	IS9
ATOM	42914	NH2	ARG	I	107	232.056	149.785	-12.650	1.00110.95	IS9
ATOM	42915	C	ARG	I	107	228.664	149.989	-6.842	1.00 65.85	IS9
ATOM	42916	O	ARG	I	107	229.816	150.379	-6.698	1.00 65.85	IS9
ATOM	42917	N	VAL	I	108	228.057	149.230	-5.943	1.00 91.78	IS9
ATOM	42918	CA	VAL	I	108	228.758	148.831	-4.733	1.00 91.78	IS9
ATOM	42919	CB	VAL	I	108	228.133	149.490	-3.490	1.00 64.20	IS9
ATOM	42920	CG1	VAL	I	108	228.863	149.048	-2.231	1.00 64.20	IS9
ATOM	42921	CG2	VAL	I	108	228.187	150.991	-3.634	1.00 64.20	IS9
ATOM	42922	C	VAL	I	108	228.727	147.326	-4.559	1.00 91.78	IS9
ATOM	42923	O	VAL	I	108	228.004	146.626	-5.261	1.00 91.78	IS9
ATOM	42924	N	VAL	I	109	229.528	146.832	-3.627	1.00 80.16	IS9
ATOM	42925	CA	VAL	I	109	229.580	145.414	-3.355	1.00 80.16	IS9
ATOM	42926	CB	VAL	I	109	230.684	145.104	-2.343	1.00 84.57	IS9
ATOM	42927	CG1	VAL	I	109	230.312	143.896	-1.494	1.00 84.57	IS9
ATOM	42928	CG2	VAL	I	109	231.979	144.850	-3.088	1.00 84.57	IS9
ATOM	42929	C	VAL	I	109	228.242	144.965	-2.806	1.00 80.16	IS9
ATOM	42930	O	VAL	I	109	227.664	145.629	-1.940	1.00 80.16	IS9
ATOM	42931	N	GLU	I	110	227.764	143.830	-3.314	1.00 90.60	IS9
ATOM	42932	CA	GLU	I	110	226.486	143.262	-2.904	1.00 90.60	IS9
ATOM	42933	CB	GLU	I	110	225.951	142.358	-4.005	1.00108.57	IS9
ATOM	42934	CG	GLU	I	110	224.567	141.842	-3.731	1.00108.57	IS9
ATOM	42935	CD	GLU	I	110	223.768	141.666	-5.001	1.00108.57	IS9
ATOM	42936	OE1	GLU	I	110	223.689	142.646	-5.781	1.00108.57	IS9
ATOM	42937	OE2	GLU	I	110	223.219	140.560	-5.217	1.00108.57	IS9
ATOM	42938	C	GLU	I	110	226.564	142.481	-1.593	1.00 90.60	IS9
ATOM	42939	O	GLU	I	110	227.535	141.758	-1.332	1.00 90.60	IS9
ATOM	42940	N	ARG	I	111	225.530	142.635	-0.772	1.00 83.42	IS9
ATOM	42941	CA	ARG	I	111	225.463	141.950	0.510	1.00 83.42	IS9
ATOM	42942	CB	ARG	I	111	224.087	142.194	1.132	1.00103.35	IS9
ATOM	42943	CG	ARG	I	111	223.953	141.816	2.596	1.00103.35	IS9
ATOM	42944	CD	ARG	I	111	223.616	140.355	2.771	1.00103.35	IS9
ATOM	42945	NE	ARG	I	111	222.847	140.130	3.988	1.00103.35	IS9
ATOM	42946	CZ	ARG	I	111	221.703	140.751	4.268	1.00103.35	IS9
ATOM	42947	NH1	ARG	I	111	221.198	141.638	3.416	1.00103.35	IS9
ATOM	42948	NH2	ARG	I	111	221.058	140.484	5.399	1.00103.35	IS9
ATOM	42949	C	ARG	I	111	225.689	140.463	0.255	1.00 83.42	IS9
ATOM	42950	O	ARG	I	111	225.643	140.024	-0.883	1.00 83.42	IS9

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ATOM	42951	N	LYS	I	112	225.955	139.688	1.297	1.00	69.12	IS9
ATOM	42952	CA	LYS	I	112	226.164	138.250	1.138	1.00	69.12	IS9
ATOM	42953	CB	LYS	I	112	227.472	137.846	1.826	1.00	65.59	IS9
ATOM	42954	CG	LYS	I	112	227.922	136.399	1.635	1.00	65.59	IS9
ATOM	42955	CD	LYS	I	112	226.995	135.404	2.293	1.00	65.59	IS9
ATOM	42956	CE	LYS	I	112	227.608	134.010	2.292	1.00	65.59	IS9
ATOM	42957	NZ	LYS	I	112	226.691	132.953	2.836	1.00	65.59	IS9
ATOM	42958	C	LYS	I	112	224.979	137.557	1.810	1.00	69.12	IS9
ATOM	42959	O	LYS	I	112	225.005	137.331	3.016	1.00	69.12	IS9
ATOM	42960	N	LYS	I	113	223.935	137.245	1.040	1.00	67.82	IS9
ATOM	42961	CA	LYS	I	113	222.740	136.593	1.583	1.00	67.82	IS9
ATOM	42962	CB	LYS	I	113	221.625	136.522	0.552	1.00	76.84	IS9
ATOM	42963	CG	LYS	I	113	221.133	137.854	0.084	1.00	76.84	IS9
ATOM	42964	CD	LYS	I	113	222.069	138.435	-0.927	1.00	76.84	IS9
ATOM	42965	CE	LYS	I	113	221.427	139.621	-1.604	1.00	76.84	IS9
ATOM	42966	NZ	LYS	I	113	222.062	139.868	-2.939	1.00	76.84	IS9
ATOM	42967	C	LYS	I	113	223.033	135.186	2.022	1.00	67.82	IS9
ATOM	42968	O	LYS	I	113	223.823	134.495	1.395	1.00	67.82	IS9
ATOM	42969	N	TYR	I	114	222.382	134.759	3.096	1.00	106.64	IS9
ATOM	42970	CA	TYR	I	114	222.568	133.413	3.617	1.00	106.64	IS9
ATOM	42971	CB	TYR	I	114	221.945	133.308	5.008	1.00	90.66	IS9
ATOM	42972	CG	TYR	I	114	220.472	133.663	5.047	1.00	90.66	IS9
ATOM	42973	CD1	TYR	I	114	219.502	132.762	4.620	1.00	90.66	IS9
ATOM	42974	CE1	TYR	I	114	218.154	133.090	4.653	1.00	90.66	IS9
ATOM	42975	CD2	TYR	I	114	220.053	134.904	5.507	1.00	90.66	IS9
ATOM	42976	CE2	TYR	I	114	218.708	135.240	5.541	1.00	90.66	IS9
ATOM	42977	CZ	TYR	I	114	217.765	134.331	5.114	1.00	90.66	IS9
ATOM	42978	OH	TYR	I	114	216.434	134.672	5.150	1.00	90.66	IS9
ATOM	42979	C	TYR	I	114	221.903	132.429	2.665	1.00	106.64	IS9
ATOM	42980	O	TYR	I	114	221.031	132.814	1.881	1.00	106.64	IS9
ATOM	42981	N	GLY	I	115	222.318	131.166	2.729	1.00	66.75	IS9
ATOM	42982	CA	GLY	I	115	221.741	130.161	1.856	1.00	66.75	IS9
ATOM	42983	C	GLY	I	115	222.517	130.015	0.564	1.00	66.75	IS9
ATOM	42984	O	GLY	I	115	222.633	128.917	0.036	1.00	66.75	IS9
ATOM	42985	N	LYS	I	116	223.050	131.127	0.067	1.00	86.94	IS9
ATOM	42986	CA	LYS	I	116	223.824	131.155	-1.168	1.00	86.94	IS9
ATOM	42987	CB	LYS	I	116	223.235	132.215	-2.094	1.00	80.64	IS9
ATOM	42988	CG	LYS	I	116	221.707	132.133	-2.160	1.00	80.64	IS9
ATOM	42989	CD	LYS	I	116	221.137	132.884	-3.354	1.00	80.64	IS9
ATOM	42990	CE	LYS	I	116	221.428	132.145	-4.674	1.00	80.64	IS9
ATOM	42991	NZ	LYS	I	116	221.257	132.984	-5.920	1.00	80.64	IS9
ATOM	42992	C	LYS	I	116	225.284	131.473	-0.838	1.00	86.94	IS9
ATOM	42993	O	LYS	I	116	225.553	132.252	0.067	1.00	86.94	IS9
ATOM	42994	N	HIS	I	117	226.224	130.874	-1.566	1.00	63.71	IS9
ATOM	42995	CA	HIS	I	117	227.660	131.086	-1.318	1.00	63.71	IS9
ATOM	42996	CB	HIS	I	117	228.514	130.248	-2.271	1.00	76.57	IS9
ATOM	42997	CG	HIS	I	117	228.568	128.795	-1.928	1.00	76.57	IS9
ATOM	42998	CD2	HIS	I	117	228.271	127.695	-2.661	1.00	76.57	IS9
ATOM	42999	ND1	HIS	I	117	229.004	128.335	-0.705	1.00	76.57	IS9
ATOM	43000	CE1	HIS	I	117	228.975	127.014	-0.699	1.00	76.57	IS9
ATOM	43001	NE2	HIS	I	117	228.534	126.600	-1.874	1.00	76.57	IS9
ATOM	43002	C	HIS	I	117	228.193	132.503	-1.403	1.00	63.71	IS9
ATOM	43003	O	HIS	I	117	229.130	132.833	-0.699	1.00	63.71	IS9
ATOM	43004	N	LYS	I	118	227.623	133.343	-2.256	1.00	84.25	IS9
ATOM	43005	CA	LYS	I	118	228.166	134.689	-2.406	1.00	84.25	IS9
ATOM	43006	CB	LYS	I	118	229.346	134.660	-3.398	1.00	64.03	IS9
ATOM	43007	CG	LYS	I	118	230.593	133.860	-2.982	1.00	64.03	IS9
ATOM	43008	CD	LYS	I	118	231.591	133.648	-4.152	1.00	64.03	IS9
ATOM	43009	CE	LYS	I	118	231.882	134.936	-4.967	1.00	64.03	IS9
ATOM	43010	NZ	LYS	I	118	230.687	135.478	-5.712	1.00	64.03	IS9
ATOM	43011	C	LYS	I	118	227.172	135.734	-2.905	1.00	84.25	IS9
ATOM	43012	O	LYS	I	118	227.431	136.387	-3.926	1.00	84.25	IS9
ATOM	43013	N	ALA	I	119	226.059	135.916	-2.205	1.00	96.35	IS9
ATOM	43014	CA	ALA	I	119	225.063	136.900	-2.638	1.00	96.35	IS9
ATOM	43015	CB	ALA	I	119	225.744	138.195	-3.089	1.00	62.50	IS9
ATOM	43016	C	ALA	I	119	224.233	136.341	-3.786	1.00	96.35	IS9
ATOM	43017	O	ALA	I	119	223.025	136.596	-3.888	1.00	96.35	IS9
ATOM	43018	N	ARG	I	120	224.897	135.594	-4.662	1.00	75.31	IS9
ATOM	43019	CA	ARG	I	120	224.230	134.987	-5.801	1.00	75.31	IS9
ATOM	43020	CB	ARG	I	120	224.441	135.846	-7.059	1.00	58.23	IS9
ATOM	43021	CG	ARG	I	120	224.024	137.290	-6.852	1.00	58.23	IS9
ATOM	43022	CD	ARG	I	120	223.299	137.897	-8.037	1.00	58.23	IS9
ATOM	43023	NE	ARG	I	120	222.944	139.283	-7.731	1.00	58.23	IS9
ATOM	43024	CZ	ARG	I	120	222.490	140.178	-8.609	1.00	58.23	IS9
ATOM	43025	NH1	ARG	I	120	222.315	139.862	-9.893	1.00	58.23	IS9
ATOM	43026	NH2	ARG	I	120	222.222	141.411	-8.203	1.00	58.23	IS9
ATOM	43027	C	ARG	I	120	224.732	133.561	-6.011	1.00	75.31	IS9

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ATOM	43028	O	ARG	I	120	223.936	132.631	-6.039	1.00	75.31	IS9
ATOM	43029	N	ARG	I	121	226.046	133.389	-6.132	1.00	73.93	IS9
ATOM	43030	CA	ARG	I	121	226.611	132.060	-6.337	1.00	73.93	IS9
ATOM	43031	CB	ARG	I	121	228.113	132.051	-6.009	1.00	80.88	IS9
ATOM	43032	CG	ARG	I	121	228.903	130.882	-6.627	1.00	80.88	IS9
ATOM	43033	CD	ARG	I	121	228.706	129.568	-5.868	1.00	80.88	IS9
ATOM	43034	NE	ARG	I	121	229.417	128.432	-6.472	1.00	80.88	IS9
ATOM	43035	CZ	ARG	I	121	229.081	127.859	-7.629	1.00	80.88	IS9
ATOM	43036	NH1	ARG	I	121	228.045	128.314	-8.313	1.00	80.88	IS9
ATOM	43037	NH2	ARG	I	121	229.769	126.827	-8.099	1.00	80.88	IS9
ATOM	43038	C	ARG	I	121	225.860	131.093	-5.435	1.00	73.93	IS9
ATOM	43039	O	ARG	I	121	226.100	131.026	-4.233	1.00	73.93	IS9
ATOM	43040	N	ALA	I	122	224.922	130.365	-6.026	1.00	67.22	IS9
ATOM	43041	CA	ALA	I	122	224.124	129.408	-5.284	1.00	67.22	IS9
ATOM	43042	CB	ALA	I	122	222.816	129.177	-6.000	1.00	83.88	IS9
ATOM	43043	C	ALA	I	122	224.884	128.097	-5.147	1.00	67.22	IS9
ATOM	43044	O	ALA	I	122	225.693	127.742	-6.003	1.00	67.22	IS9
ATOM	43045	N	PRO	I	123	224.639	127.361	-4.058	1.00	59.91	IS9
ATOM	43046	CD	PRO	I	123	223.594	127.578	-3.046	1.00	64.64	IS9
ATOM	43047	CA	PRO	I	123	225.317	126.083	-3.837	1.00	59.91	IS9
ATOM	43048	CB	PRO	I	123	224.877	125.708	-2.426	1.00	64.64	IS9
ATOM	43049	CG	PRO	I	123	223.471	126.195	-2.410	1.00	64.64	IS9
ATOM	43050	C	PRO	I	123	224.796	125.111	-4.881	1.00	59.91	IS9
ATOM	43051	O	PRO	I	123	223.716	125.337	-5.438	1.00	59.91	IS9
ATOM	43052	N	GLN	I	124	225.535	124.035	-5.146	1.00	71.85	IS9
ATOM	43053	CA	GLN	I	124	225.077	123.088	-6.158	1.00	71.85	IS9
ATOM	43054	CB	GLN	I	124	226.160	122.836	-7.219	1.00	89.11	IS9
ATOM	43055	CG	GLN	I	124	227.292	121.895	-6.831	1.00	89.11	IS9
ATOM	43056	CD	GLN	I	124	228.034	121.381	-8.062	1.00	89.11	IS9
ATOM	43057	OE1	GLN	I	124	228.336	122.152	-8.985	1.00	89.11	IS9
ATOM	43058	NE2	GLN	I	124	228.333	120.073	-8.080	1.00	89.11	IS9
ATOM	43059	C	GLN	I	124	224.590	121.756	-5.632	1.00	71.85	IS9
ATOM	43060	O	GLN	I	124	224.986	121.312	-4.555	1.00	71.85	IS9
ATOM	43061	N	TYR	I	125	223.725	121.126	-6.422	1.00	77.30	IS9
ATOM	43062	CA	TYR	I	125	223.160	119.830	-6.082	1.00	77.30	IS9
ATOM	43063	CB	TYR	I	125	221.656	119.952	-5.938	1.00	106.38	IS9
ATOM	43064	CG	TYR	I	125	221.066	120.746	-7.053	1.00	106.38	IS9
ATOM	43065	CD1	TYR	I	125	220.641	120.126	-8.218	1.00	106.38	IS9
ATOM	43066	CE1	TYR	I	125	220.138	120.864	-9.274	1.00	106.38	IS9
ATOM	43067	CD2	TYR	I	125	220.979	122.131	-6.964	1.00	106.38	IS9
ATOM	43068	CE2	TYR	I	125	220.483	122.885	-8.012	1.00	106.38	IS9
ATOM	43069	CZ	TYR	I	125	220.060	122.246	-9.167	1.00	106.38	IS9
ATOM	43070	OH	TYR	I	125	219.547	122.988	-10.210	1.00	106.38	IS9
ATOM	43071	C	TYR	I	125	223.499	118.799	-7.147	1.00	77.30	IS9
ATOM	43072	O	TYR	I	125	223.813	119.134	-8.293	1.00	77.30	IS9
ATOM	43073	N	SER	I	126	223.427	117.539	-6.747	1.00	106.73	IS9
ATOM	43074	CA	SER	I	126	223.745	116.428	-7.621	1.00	106.73	IS9
ATOM	43075	CB	SER	I	126	224.266	115.265	-6.792	1.00	198.84	IS9
ATOM	43076	OG	SER	I	126	223.286	114.838	-5.854	1.00	198.84	IS9
ATOM	43077	C	SER	I	126	222.544	115.953	-8.405	1.00	106.73	IS9
ATOM	43078	O	SER	I	126	222.017	116.658	-9.265	1.00	106.73	IS9
ATOM	43079	N	LYS	I	127	222.131	114.729	-8.094	1.00	123.54	IS9
ATOM	43080	CA	LYS	I	127	220.992	114.105	-8.739	1.00	123.54	IS9
ATOM	43081	CB	LYS	I	127	221.070	112.581	-8.590	1.00	97.87	IS9
ATOM	43082	CG	LYS	I	127	222.178	111.920	-9.420	1.00	97.87	IS9
ATOM	43083	CD	LYS	I	127	223.578	112.318	-8.977	1.00	97.87	IS9
ATOM	43084	CE	LYS	I	127	224.621	111.586	-9.802	1.00	97.87	IS9
ATOM	43085	NZ	LYS	I	127	226.015	111.811	-9.337	1.00	97.87	IS9
ATOM	43086	C	LYS	I	127	219.702	114.635	-8.135	1.00	123.54	IS9
ATOM	43087	O	LYS	I	127	218.929	113.891	-7.531	1.00	123.54	IS9
ATOM	43088	N	ARG	I	128	219.496	115.940	-8.299	1.00	109.86	IS9
ATOM	43089	CA	ARG	I	128	218.307	116.619	-7.814	1.00	109.86	IS9
ATOM	43090	CB	ARG	I	128	218.261	118.051	-8.372	1.00	141.49	IS9
ATOM	43091	CG	ARG	I	128	216.879	118.697	-8.408	1.00	141.49	IS9
ATOM	43092	CD	ARG	I	128	216.931	120.220	-8.536	1.00	141.49	IS9
ATOM	43093	NE	ARG	I	128	217.274	120.877	-7.271	1.00	141.49	IS9
ATOM	43094	CZ	ARG	I	128	217.132	122.181	-7.033	1.00	141.49	IS9
ATOM	43095	NH1	ARG	I	128	216.650	122.985	-7.974	1.00	141.49	IS9
ATOM	43096	NH2	ARG	I	128	217.465	122.687	-5.852	1.00	141.49	IS9
ATOM	43097	C	ARG	I	128	217.091	115.828	-8.272	1.00	109.86	IS9
ATOM	43098	O	ARG	I	128	217.286	114.833	-9.004	1.00	109.86	IS9
ATOM	43099	OXT	ARG	I	128	215.963	116.201	-7.894	1.00	170.46	IS9
TER	43099		ARG	I	128						IS9
ATOM	43100	CB	LYS	J	3	238.163	168.889	31.711	1.00	198.84	JS10
ATOM	43101	CG	LYS	J	3	239.005	170.005	31.126	1.00	198.84	JS10
ATOM	43102	CD	LYS	J	3	240.481	169.786	31.400	1.00	198.84	JS10
ATOM	43103	CE	LYS	J	3	241.289	171.003	30.984	1.00	198.84	JS10

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ATOM	43104	NZ	LYS	J	3	242.708	170.903	31.413	1.00198.84	JS10
ATOM	43105	C	LYS	J	3	235.923	167.956	32.257	1.00138.66	JS10
ATOM	43106	O	LYS	J	3	236.502	167.154	32.988	1.00138.66	JS10
ATOM	43107	N	LYS	J	3	236.363	170.389	32.523	1.00138.66	JS10
ATOM	43108	CA	LYS	J	3	236.658	169.173	31.713	1.00138.66	JS10
ATOM	43109	N	ILE	J	4	234.650	167.819	31.906	1.00154.81	JS10
ATOM	43110	CA	ILE	J	4	233.870	166.678	32.358	1.00154.81	JS10
ATOM	43111	CB	ILE	J	4	232.566	167.137	33.038	1.00132.35	JS10
ATOM	43112	CG2	ILE	J	4	231.623	165.963	33.227	1.00132.35	JS10
ATOM	43113	CG1	ILE	J	4	232.897	167.763	34.392	1.00132.35	JS10
ATOM	43114	CD1	ILE	J	4	231.686	168.155	35.204	1.00132.35	JS10
ATOM	43115	C	ILE	J	4	233.553	165.758	31.181	1.00154.81	JS10
ATOM	43116	O	ILE	J	4	232.606	165.999	30.426	1.00154.81	JS10
ATOM	43117	N	ARG	J	5	234.361	164.707	31.026	1.00109.54	JS10
ATOM	43118	CA	ARG	J	5	234.175	163.752	29.939	1.00109.54	JS10
ATOM	43119	CB	ARG	J	5	235.402	162.853	29.768	1.00102.91	JS10
ATOM	43120	CG	ARG	J	5	235.966	162.859	28.350	1.00102.91	JS10
ATOM	43121	CD	ARG	J	5	236.995	161.756	28.168	1.00102.91	JS10
ATOM	43122	NE	ARG	J	5	237.896	162.012	27.045	1.00102.91	JS10
ATOM	43123	CZ	ARG	J	5	238.900	161.211	26.684	1.00102.91	JS10
ATOM	43124	NH1	ARG	J	5	239.133	160.088	27.355	1.00102.91	JS10
ATOM	43125	NH2	ARG	J	5	239.685	161.540	25.662	1.00102.91	JS10
ATOM	43126	C	ARG	J	5	232.953	162.896	30.191	1.00109.54	JS10
ATOM	43127	O	ARG	J	5	233.015	161.855	30.846	1.00109.54	JS10
ATOM	43128	N	ILE	J	6	231.834	163.367	29.669	1.00146.85	JS10
ATOM	43129	CA	ILE	J	6	230.573	162.673	29.796	1.00146.85	JS10
ATOM	43130	CB	ILE	J	6	229.420	163.685	29.809	1.00 97.08	JS10
ATOM	43131	CG2	ILE	J	6	229.341	164.363	31.172	1.00 97.08	JS10
ATOM	43132	CG1	ILE	J	6	229.637	164.713	28.690	1.00 97.08	JS10
ATOM	43133	CD1	ILE	J	6	228.587	165.791	28.636	1.00 97.08	JS10
ATOM	43134	C	ILE	J	6	230.456	161.764	28.579	1.00146.85	JS10
ATOM	43135	O	ILE	J	6	230.756	162.185	27.461	1.00146.85	JS10
ATOM	43136	N	LYS	J	7	230.051	160.514	28.795	1.00134.53	JS10
ATOM	43137	CA	LYS	J	7	229.897	159.564	27.694	1.00134.53	JS10
ATOM	43138	CB	LYS	J	7	231.047	158.548	27.686	1.00120.42	JS10
ATOM	43139	CG	LYS	J	7	231.321	157.898	26.327	1.00120.42	JS10
ATOM	43140	CD	LYS	J	7	232.450	156.870	26.437	1.00120.42	JS10
ATOM	43141	CE	LYS	J	7	232.819	156.242	25.096	1.00120.42	JS10
ATOM	43142	NZ	LYS	J	7	233.487	157.204	24.179	1.00120.42	JS10
ATOM	43143	C	LYS	J	7	228.560	158.845	27.835	1.00134.53	JS10
ATOM	43144	O	LYS	J	7	228.324	158.099	28.791	1.00134.53	JS10
ATOM	43145	N	LEU	J	8	227.684	159.094	26.871	1.00112.71	JS10
ATOM	43146	CA	LEU	J	8	226.363	158.500	26.865	1.00112.71	JS10
ATOM	43147	CB	LEU	J	8	225.324	159.578	26.561	1.00145.96	JS10
ATOM	43148	CG	LEU	J	8	225.067	160.558	27.707	1.00145.96	JS10
ATOM	43149	CD1	LEU	J	8	224.431	161.827	27.193	1.00145.96	JS10
ATOM	43150	CD2	LEU	J	8	224.177	159.889	28.732	1.00145.96	JS10
ATOM	43151	C	LEU	J	8	226.255	157.366	25.856	1.00112.71	JS10
ATOM	43152	O	LEU	J	8	226.412	157.566	24.652	1.00112.71	JS10
ATOM	43153	N	ARG	J	9	225.996	156.171	26.366	1.00111.64	JS10
ATOM	43154	CA	ARG	J	9	225.845	154.989	25.533	1.00111.64	JS10
ATOM	43155	CB	ARG	J	9	226.826	153.898	25.979	1.00116.93	JS10
ATOM	43156	CG	ARG	J	9	226.907	153.714	27.490	1.00116.93	JS10
ATOM	43157	CD	ARG	J	9	227.936	152.670	27.909	1.00116.93	JS10
ATOM	43158	NE	ARG	J	9	229.278	152.942	27.394	1.00116.93	JS10
ATOM	43159	CZ	ARG	J	9	229.697	152.627	26.169	1.00116.93	JS10
ATOM	43160	NH1	ARG	J	9	228.880	152.023	25.319	1.00116.93	JS10
ATOM	43161	NH2	ARG	J	9	230.939	152.906	25.793	1.00116.93	JS10
ATOM	43162	C	ARG	J	9	224.409	154.503	25.669	1.00111.64	JS10
ATOM	43163	O	ARG	J	9	223.796	154.639	26.727	1.00111.64	JS10
ATOM	43164	N	GLY	J	10	223.867	153.951	24.595	1.00177.38	JS10
ATOM	43165	CA	GLY	J	10	222.503	153.471	24.651	1.00177.38	JS10
ATOM	43166	C	GLY	J	10	222.127	152.624	23.458	1.00177.38	JS10
ATOM	43167	O	GLY	J	10	222.825	152.598	22.443	1.00177.38	JS10
ATOM	43168	N	PHE	J	11	221.012	151.920	23.589	1.00127.05	JS10
ATOM	43169	CA	PHE	J	11	220.521	151.066	22.527	1.00127.05	JS10
ATOM	43170	CB	PHE	J	11	219.771	149.877	23.140	1.00 85.70	JS10
ATOM	43171	CG	PHE	J	11	220.666	148.891	23.853	1.00 85.70	JS10
ATOM	43172	CD1	PHE	J	11	220.119	147.833	24.580	1.00 85.70	JS10
ATOM	43173	CD2	PHE	J	11	222.055	148.991	23.767	1.00 85.70	JS10
ATOM	43174	CE1	PHE	J	11	220.945	146.875	25.216	1.00 85.70	JS10
ATOM	43175	CE2	PHE	J	11	222.891	148.041	24.399	1.00 85.70	JS10
ATOM	43176	CZ	PHE	J	11	222.331	146.980	25.124	1.00 85.70	JS10
ATOM	43177	C	PHE	J	11	219.601	151.891	21.629	1.00127.05	JS10
ATOM	43178	O	PHE	J	11	219.706	151.847	20.399	1.00127.05	JS10
ATOM	43179	N	ASP	J	12	218.714	152.656	22.262	1.00 96.26	JS10
ATOM	43180	CA	ASP	J	12	217.758	153.506	21.552	1.00 96.26	JS10

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ATOM	43181	CB	ASP	J	12	216.658	153.965	22.516	1.00147.29	JS10
ATOM	43182	CG	ASP	J	12	215.538	154.720	21.818	1.00147.29	JS10
ATOM	43183	OD1	ASP	J	12	215.829	155.619	21.001	1.00147.29	JS10
ATOM	43184	OD2	ASP	J	12	214.360	154.420	22.097	1.00147.29	JS10
ATOM	43185	C	ASP	J	12	218.477	154.725	20.981	1.00 96.26	JS10
ATOM	43186	O	ASP	J	12	219.176	155.428	21.706	1.00 96.26	JS10
ATOM	43187	N	HIS	J	13	218.301	154.987	19.691	1.00116.66	JS10
ATOM	43188	CA	HIS	J	13	218.965	156.131	19.081	1.00116.66	JS10
ATOM	43189	CB	HIS	J	13	219.091	155.928	17.567	1.00110.11	JS10
ATOM	43190	CG	HIS	J	13	217.986	156.559	16.784	1.00110.11	JS10
ATOM	43191	CD2	HIS	J	13	217.984	157.629	15.955	1.00110.11	JS10
ATOM	43192	ND1	HIS	J	13	216.676	156.136	16.869	1.00110.11	JS10
ATOM	43193	CE1	HIS	J	13	215.915	156.922	16.128	1.00110.11	JS10
ATOM	43194	NE2	HIS	J	13	216.684	157.837	15.564	1.00110.11	JS10
ATOM	43195	C	HIS	J	13	218.241	157.458	19.376	1.00116.66	JS10
ATOM	43196	O	HIS	J	13	218.456	158.458	18.687	1.00116.66	JS10
ATOM	43197	N	LYS	J	14	217.385	157.464	20.396	1.00103.82	JS10
ATOM	43198	CA	LYS	J	14	216.643	158.667	20.780	1.00103.82	JS10
ATOM	43199	CB	LYS	J	14	215.159	158.527	20.438	1.00151.34	JS10
ATOM	43200	CG	LYS	J	14	214.880	158.325	18.967	1.00151.34	JS10
ATOM	43201	CD	LYS	J	14	213.393	158.374	18.677	1.00151.34	JS10
ATOM	43202	CE	LYS	J	14	212.816	159.743	19.002	1.00151.34	JS10
ATOM	43203	NZ	LYS	J	14	211.374	159.835	18.646	1.00151.34	JS10
ATOM	43204	C	LYS	J	14	216.787	158.865	22.276	1.00103.82	JS10
ATOM	43205	O	LYS	J	14	216.852	159.989	22.767	1.00103.82	JS10
ATOM	43206	N	THR	J	15	216.822	157.750	22.995	1.00111.00	JS10
ATOM	43207	CA	THR	J	15	216.970	157.768	24.438	1.00111.00	JS10
ATOM	43208	CB	THR	J	15	217.006	156.326	25.002	1.00134.10	JS10
ATOM	43209	OG1	THR	J	15	216.770	156.360	26.413	1.00134.10	JS10
ATOM	43210	CG2	THR	J	15	218.367	155.670	24.736	1.00134.10	JS10
ATOM	43211	C	THR	J	15	218.278	158.496	24.767	1.00111.00	JS10
ATOM	43212	O	THR	J	15	218.416	159.081	25.843	1.00111.00	JS10
ATOM	43213	N	LEU	J	16	219.228	158.452	23.829	1.00149.18	JS10
ATOM	43214	CA	LEU	J	16	220.519	159.126	23.988	1.00149.18	JS10
ATOM	43215	CB	LEU	J	16	221.630	158.410	23.220	1.00 99.19	JS10
ATOM	43216	CG	LEU	J	16	222.303	157.207	23.874	1.00 99.19	JS10
ATOM	43217	CD1	LEU	J	16	223.542	156.833	23.070	1.00 99.19	JS10
ATOM	43218	CD2	LEU	J	16	222.694	157.546	25.298	1.00 99.19	JS10
ATOM	43219	C	LEU	J	16	220.453	160.565	23.497	1.00149.18	JS10
ATOM	43220	O	LEU	J	16	220.996	161.466	24.134	1.00149.18	JS10
ATOM	43221	N	ASP	J	17	219.809	160.782	22.353	1.00136.00	JS10
ATOM	43222	CA	ASP	J	17	219.681	162.135	21.825	1.00136.00	JS10
ATOM	43223	CB	ASP	J	17	218.856	162.148	20.530	1.00149.24	JS10
ATOM	43224	CG	ASP	J	17	219.586	161.510	19.359	1.00149.24	JS10
ATOM	43225	OD1	ASP	J	17	220.806	161.742	19.217	1.00149.24	JS10
ATOM	43226	OD2	ASP	J	17	218.936	160.794	18.568	1.00149.24	JS10
ATOM	43227	C	ASP	J	17	218.993	162.993	22.888	1.00136.00	JS10
ATOM	43228	O	ASP	J	17	219.499	164.049	23.271	1.00136.00	JS10
ATOM	43229	N	ALA	J	18	217.842	162.522	23.363	1.00134.43	JS10
ATOM	43230	CA	ALA	J	18	217.087	163.220	24.396	1.00134.43	JS10
ATOM	43231	CB	ALA	J	18	215.897	162.374	24.834	1.00 98.38	JS10
ATOM	43232	C	ALA	J	18	218.009	163.481	25.582	1.00134.43	JS10
ATOM	43233	O	ALA	J	18	218.202	164.628	25.985	1.00134.43	JS10
ATOM	43234	N	SER	J	19	218.576	162.405	26.128	1.00109.64	JS10
ATOM	43235	CA	SER	J	19	219.494	162.482	27.263	1.00109.64	JS10
ATOM	43236	CB	SER	J	19	220.097	161.107	27.558	1.00117.71	JS10
ATOM	43237	OG	SER	J	19	221.234	161.222	28.402	1.00117.71	JS10
ATOM	43238	C	SER	J	19	220.629	163.471	27.033	1.00109.64	JS10
ATOM	43239	O	SER	J	19	220.700	164.511	27.686	1.00109.64	JS10
ATOM	43240	N	ALA	J	20	221.521	163.138	26.109	1.00113.77	JS10
ATOM	43241	CA	ALA	J	20	222.656	163.998	25.806	1.00113.77	JS10
ATOM	43242	CB	ALA	J	20	223.459	163.413	24.652	1.00106.61	JS10
ATOM	43243	C	ALA	J	20	222.240	165.428	25.481	1.00113.77	JS10
ATOM	43244	O	ALA	J	20	223.063	166.339	25.525	1.00113.77	JS10
ATOM	43245	N	GLN	J	21	220.967	165.632	25.158	1.00123.15	JS10
ATOM	43246	CA	GLN	J	21	220.498	166.972	24.837	1.00123.15	JS10
ATOM	43247	CB	GLN	J	21	219.345	166.911	23.839	1.00177.93	JS10
ATOM	43248	CG	GLN	J	21	219.006	168.255	23.229	1.00177.93	JS10
ATOM	43249	CD	GLN	J	21	218.041	168.135	22.073	1.00177.93	JS10
ATOM	43250	OE1	GLN	J	21	216.896	167.713	22.241	1.00177.93	JS10
ATOM	43251	NE2	GLN	J	21	218.502	168.501	20.884	1.00177.93	JS10
ATOM	43252	C	GLN	J	21	220.065	167.717	26.095	1.00123.15	JS10
ATOM	43253	O	GLN	J	21	220.060	168.947	26.121	1.00123.15	JS10
ATOM	43254	N	LYS	J	22	219.692	166.976	27.134	1.00141.93	JS10
ATOM	43255	CA	LYS	J	22	219.301	167.597	28.393	1.00141.93	JS10
ATOM	43256	CB	LYS	J	22	218.671	166.577	29.344	1.00135.79	JS10
ATOM	43257	CG	LYS	J	22	217.447	165.852	28.823	1.00135.79	JS10

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ATOM	43258	CD	LYS	J	22	216.867	164.950	29.911	1.00135.79	JS10
ATOM	43259	CE	LYS	J	22	215.767	164.046	29.376	1.00135.79	JS10
ATOM	43260	NZ	LYS	J	22	216.278	163.043	28.393	1.00135.79	JS10
ATOM	43261	C	LYS	J	22	220.597	168.098	29.015	1.00141.93	JS10
ATOM	43262	O	LYS	J	22	220.719	169.262	29.394	1.00141.93	JS10
ATOM	43263	N	ILE	J	23	221.561	167.187	29.104	1.00121.72	JS10
ATOM	43264	CA	ILE	J	23	222.877	167.461	29.668	1.00121.72	JS10
ATOM	43265	CB	ILE	J	23	223.768	166.175	29.603	1.00 83.67	JS10
ATOM	43266	CG2	ILE	J	23	225.233	166.498	29.888	1.00 83.67	JS10
ATOM	43267	CG1	ILE	J	23	223.267	165.148	30.618	1.00 83.67	JS10
ATOM	43268	CD1	ILE	J	23	221.860	164.653	30.356	1.00 83.67	JS10
ATOM	43269	C	ILE	J	23	223.582	168.628	28.969	1.00121.72	JS10
ATOM	43270	O	ILE	J	23	224.605	169.114	29.449	1.00121.72	JS10
ATOM	43271	N	VAL	J	24	223.037	169.090	27.846	1.00149.33	JS10
ATOM	43272	CA	VAL	J	24	223.653	170.202	27.125	1.00149.33	JS10
ATOM	43273	CB	VAL	J	24	223.850	169.870	25.631	1.00180.83	JS10
ATOM	43274	CG1	VAL	J	24	224.439	171.069	24.904	1.00180.83	JS10
ATOM	43275	CG2	VAL	J	24	224.777	168.679	25.487	1.00180.83	JS10
ATOM	43276	C	VAL	J	24	222.870	171.505	27.241	1.00149.33	JS10
ATOM	43277	O	VAL	J	24	223.463	172.575	27.333	1.00149.33	JS10
ATOM	43278	N	GLU	J	25	221.545	171.425	27.234	1.00134.28	JS10
ATOM	43279	CA	GLU	J	25	220.729	172.628	27.352	1.00134.28	JS10
ATOM	43280	CB	GLU	J	25	219.258	172.308	27.089	1.00198.52	JS10
ATOM	43281	CG	GLU	J	25	218.979	171.776	25.700	1.00198.52	JS10
ATOM	43282	CD	GLU	J	25	217.505	171.514	25.467	1.00198.52	JS10
ATOM	43283	OE1	GLU	J	25	216.717	172.483	25.489	1.00198.52	JS10
ATOM	43284	OE2	GLU	J	25	217.135	170.338	25.264	1.00198.52	JS10
ATOM	43285	C	GLU	J	25	220.876	173.210	28.753	1.00134.28	JS10
ATOM	43286	O	GLU	J	25	221.004	174.425	28.923	1.00134.28	JS10
ATOM	43287	N	ALA	J	26	220.862	172.329	29.752	1.00198.84	JS10
ATOM	43288	CA	ALA	J	26	220.986	172.727	31.153	1.00198.84	JS10
ATOM	43289	CB	ALA	J	26	220.643	171.550	32.066	1.00122.64	JS10
ATOM	43290	C	ALA	J	26	222.379	173.244	31.487	1.00198.84	JS10
ATOM	43291	O	ALA	J	26	222.536	174.385	31.918	1.00198.84	JS10
ATOM	43292	N	ALA	J	27	223.387	172.402	31.287	1.00147.70	JS10
ATOM	43293	CA	ALA	J	27	224.763	172.780	31.583	1.00147.70	JS10
ATOM	43294	CB	ALA	J	27	225.666	171.567	31.462	1.00 72.73	JS10
ATOM	43295	C	ALA	J	27	225.304	173.931	30.723	1.00147.70	JS10
ATOM	43296	O	ALA	J	27	226.490	174.259	30.802	1.00147.70	JS10
ATOM	43297	N	ARG	J	28	224.442	174.530	29.901	1.00143.93	JS10
ATOM	43298	CA	ARG	J	28	224.828	175.665	29.054	1.00143.93	JS10
ATOM	43299	CB	ARG	J	28	224.122	175.600	27.691	1.00182.45	JS10
ATOM	43300	CG	ARG	J	28	224.888	174.850	26.602	1.00182.45	JS10
ATOM	43301	CD	ARG	J	28	224.055	174.721	25.326	1.00182.45	JS10
ATOM	43302	NE	ARG	J	28	224.745	173.974	24.274	1.00182.45	JS10
ATOM	43303	CZ	ARG	J	28	225.763	174.443	23.557	1.00182.45	JS10
ATOM	43304	NH1	ARG	J	28	226.222	175.669	23.768	1.00182.45	JS10
ATOM	43305	NH2	ARG	J	28	226.328	173.682	22.630	1.00182.45	JS10
ATOM	43306	C	ARG	J	28	224.420	176.943	29.779	1.00143.93	JS10
ATOM	43307	O	ARG	J	28	224.236	177.999	29.171	1.00143.93	JS10
ATOM	43308	N	ARG	J	29	224.275	176.825	31.093	1.00182.15	JS10
ATOM	43309	CA	ARG	J	29	223.880	177.939	31.940	1.00182.15	JS10
ATOM	43310	CB	ARG	J	29	222.368	177.895	32.179	1.00136.48	JS10
ATOM	43311	CG	ARG	J	29	221.554	177.646	30.917	1.00136.48	JS10
ATOM	43312	CD	ARG	J	29	220.125	177.241	31.244	1.00136.48	JS10
ATOM	43313	NE	ARG	J	29	219.388	176.828	30.051	1.00136.48	JS10
ATOM	43314	CZ	ARG	J	29	218.110	176.457	30.045	1.00136.48	JS10
ATOM	43315	NH1	ARG	J	29	217.412	176.444	31.173	1.00136.48	JS10
ATOM	43316	NH2	ARG	J	29	217.528	176.098	28.909	1.00136.48	JS10
ATOM	43317	C	ARG	J	29	224.617	177.806	33.271	1.00182.15	JS10
ATOM	43318	O	ARG	J	29	224.043	178.056	34.332	1.00182.15	JS10
ATOM	43319	N	SER	J	30	225.885	177.403	33.210	1.00168.99	JS10
ATOM	43320	CA	SER	J	30	226.692	177.230	34.416	1.00168.99	JS10
ATOM	43321	CB	SER	J	30	225.982	176.271	35.374	1.00147.39	JS10
ATOM	43322	OG	SER	J	30	225.585	175.081	34.716	1.00147.39	JS10
ATOM	43323	C	SER	J	30	228.123	176.735	34.168	1.00168.99	JS10
ATOM	43324	O	SER	J	30	228.937	176.700	35.092	1.00168.99	JS10
ATOM	43325	N	GLY	J	31	228.424	176.355	32.928	1.00198.59	JS10
ATOM	43326	CA	GLY	J	31	229.757	175.872	32.594	1.00198.59	JS10
ATOM	43327	C	GLY	J	31	230.306	176.535	31.343	1.00198.59	JS10
ATOM	43328	O	GLY	J	31	229.805	177.582	30.934	1.00198.59	JS10
ATOM	43329	N	ALA	J	32	231.331	175.941	30.734	1.00188.26	JS10
ATOM	43330	CA	ALA	J	32	231.921	176.507	29.521	1.00188.26	JS10
ATOM	43331	CB	ALA	J	32	232.980	175.567	28.946	1.00112.55	JS10
ATOM	43332	C	ALA	J	32	230.830	176.754	28.486	1.00188.26	JS10
ATOM	43333	O	ALA	J	32	230.218	177.821	28.460	1.00188.26	JS10
ATOM	43334	N	GLN	J	33	230.592	175.765	27.631	1.00198.84	JS10

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ATOM	43335	CA	GLN	J	33	229.563	175.883	26.608	1.00198.84	JS10
ATOM	43336	CB	GLN	J	33	229.937	176.965	25.588	1.00198.69	JS10
ATOM	43337	CG	GLN	J	33	228.797	177.342	24.645	1.00198.69	JS10
ATOM	43338	CD	GLN	J	33	229.118	178.540	23.771	1.00198.69	JS10
ATOM	43339	OE1	GLN	J	33	230.051	178.506	22.968	1.00198.69	JS10
ATOM	43340	NE2	GLN	J	33	228.342	179.609	23.923	1.00198.69	JS10
ATOM	43341	C	GLN	J	33	229.346	174.551	25.905	1.00198.84	JS10
ATOM	43342	O	GLN	J	33	228.584	174.465	24.940	1.00198.84	JS10
ATOM	43343	N	VAL	J	34	230.026	173.514	26.387	1.00171.02	JS10
ATOM	43344	CA	VAL	J	34	229.881	172.180	25.817	1.00171.02	JS10
ATOM	43345	CB	VAL	J	34	228.388	171.762	25.813	1.00166.26	JS10
ATOM	43346	CG1	VAL	J	34	228.238	170.351	25.296	1.00166.26	JS10
ATOM	43347	CG2	VAL	J	34	227.804	171.892	27.210	1.00166.26	JS10
ATOM	43348	C	VAL	J	34	230.415	172.073	24.384	1.00171.02	JS10
ATOM	43349	O	VAL	J	34	230.224	172.982	23.571	1.00171.02	JS10
ATOM	43350	N	SER	J	35	231.081	170.957	24.082	1.00171.06	JS10
ATOM	43351	CA	SER	J	35	231.621	170.712	22.743	1.00171.06	JS10
ATOM	43352	CB	SER	J	35	232.724	169.652	22.774	1.00141.06	JS10
ATOM	43353	OG	SER	J	35	233.711	169.953	23.737	1.00141.06	JS10
ATOM	43354	C	SER	J	35	230.488	170.183	21.882	1.00171.06	JS10
ATOM	43355	O	SER	J	35	230.719	169.416	20.950	1.00171.06	JS10
ATOM	43356	N	GLY	J	36	229.264	170.587	22.205	1.00151.19	JS10
ATOM	43357	CA	GLY	J	36	228.112	170.119	21.461	1.00151.19	JS10
ATOM	43358	C	GLY	J	36	227.992	168.620	21.639	1.00151.19	JS10
ATOM	43359	O	GLY	J	36	228.964	167.965	22.011	1.00151.19	JS10
ATOM	43360	N	PRO	J	37	226.811	168.041	21.399	1.00138.56	JS10
ATOM	43361	CD	PRO	J	37	225.545	168.637	20.935	1.00157.85	JS10
ATOM	43362	CA	PRO	J	37	226.691	166.591	21.567	1.00138.56	JS10
ATOM	43363	CB	PRO	J	37	225.188	166.361	21.456	1.00157.85	JS10
ATOM	43364	CG	PRO	J	37	224.765	167.424	20.470	1.00157.85	JS10
ATOM	43365	C	PRO	J	37	227.482	165.886	20.467	1.00138.56	JS10
ATOM	43366	O	PRO	J	37	227.255	166.130	19.282	1.00138.56	JS10
ATOM	43367	N	ILE	J	38	228.419	165.025	20.846	1.00133.58	JS10
ATOM	43368	CA	ILE	J	38	229.213	164.333	19.841	1.00133.58	JS10
ATOM	43369	CB	ILE	J	38	230.696	164.330	20.212	1.00122.95	JS10
ATOM	43370	CG2	ILE	J	38	231.534	164.206	18.951	1.00122.95	JS10
ATOM	43371	CG1	ILE	J	38	231.055	165.647	20.900	1.00122.95	JS10
ATOM	43372	CD1	ILE	J	38	232.503	165.751	21.332	1.00122.95	JS10
ATOM	43373	C	ILE	J	38	228.736	162.899	19.626	1.00133.58	JS10
ATOM	43374	O	ILE	J	38	228.557	162.139	20.578	1.00133.58	JS10
ATOM	43375	N	PRO	J	39	228.527	162.518	18.354	1.00147.69	JS10
ATOM	43376	CD	PRO	J	39	228.829	163.382	17.201	1.00 89.71	JS10
ATOM	43377	CA	PRO	J	39	228.063	161.206	17.891	1.00147.69	JS10
ATOM	43378	CB	PRO	J	39	228.020	161.373	16.379	1.00 89.71	JS10
ATOM	43379	CG	PRO	J	39	229.090	162.369	16.130	1.00 89.71	JS10
ATOM	43380	C	PRO	J	39	228.837	159.962	18.304	1.00147.69	JS10
ATOM	43381	O	PRO	J	39	228.376	159.216	19.160	1.00147.69	JS10
ATOM	43382	N	LEU	J	40	229.993	159.731	17.687	1.00108.66	JS10
ATOM	43383	CA	LEU	J	40	230.813	158.548	17.980	1.00108.66	JS10
ATOM	43384	CB	LEU	J	40	230.815	158.200	19.474	1.00129.76	JS10
ATOM	43385	CG	LEU	J	40	231.993	158.561	20.379	1.00129.76	JS10
ATOM	43386	CD1	LEU	J	40	232.011	157.573	21.550	1.00129.76	JS10
ATOM	43387	CD2	LEU	J	40	233.307	158.483	19.617	1.00129.76	JS10
ATOM	43388	C	LEU	J	40	230.314	157.320	17.226	1.00108.66	JS10
ATOM	43389	O	LEU	J	40	229.110	157.086	17.127	1.00108.66	JS10
ATOM	43390	N	PRO	J	41	231.240	156.500	16.708	1.00102.47	JS10
ATOM	43391	CD	PRO	J	41	232.703	156.558	16.856	1.00120.57	JS10
ATOM	43392	CA	PRO	J	41	230.854	155.302	15.969	1.00102.47	JS10
ATOM	43393	CB	PRO	J	41	232.193	154.777	15.467	1.00120.57	JS10
ATOM	43394	CG	PRO	J	41	233.101	155.132	16.578	1.00120.57	JS10
ATOM	43395	C	PRO	J	41	230.103	154.288	16.831	1.00102.47	JS10
ATOM	43396	O	PRO	J	41	230.466	154.044	17.984	1.00102.47	JS10
ATOM	43397	N	THR	J	42	229.060	153.707	16.238	1.00 85.99	JS10
ATOM	43398	CA	THR	J	42	228.199	152.712	16.874	1.00 85.99	JS10
ATOM	43399	CB	THR	J	42	226.795	152.774	16.255	1.00 90.16	JS10
ATOM	43400	OG1	THR	J	42	226.316	154.127	16.291	1.00 90.16	JS10
ATOM	43401	CG2	THR	J	42	225.838	151.863	17.007	1.00 90.16	JS10
ATOM	43402	C	THR	J	42	228.741	151.297	16.667	1.00 85.99	JS10
ATOM	43403	O	THR	J	42	229.221	150.987	15.583	1.00 85.99	JS10
ATOM	43404	N	ARG	J	43	228.661	150.440	17.685	1.00121.77	JS10
ATOM	43405	CA	ARG	J	43	229.142	149.056	17.561	1.00121.77	JS10
ATOM	43406	CB	ARG	J	43	230.056	148.682	18.729	1.00122.48	JS10
ATOM	43407	CG	ARG	J	43	231.484	149.175	18.597	1.00122.48	JS10
ATOM	43408	CD	ARG	J	43	232.427	148.299	19.417	1.00122.48	JS10
ATOM	43409	NE	ARG	J	43	233.829	148.694	19.292	1.00122.48	JS10
ATOM	43410	CZ	ARG	J	43	234.850	148.006	19.798	1.00122.48	JS10
ATOM	43411	NH1	ARG	J	43	234.633	146.879	20.468	1.00122.48	JS10

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ATOM	43412	NH2	ARG	J	43	236.091	148.448	19.640	1.00122.48	JS10
ATOM	43413	C	ARG	J	43	228.016	148.025	17.481	1.00121.77	JS10
ATOM	43414	O	ARG	J	43	227.405	147.696	18.500	1.00121.77	JS10
ATOM	43415	N	VAL	J	44	227.772	147.498	16.279	1.00 90.73	JS10
ATOM	43416	CA	VAL	J	44	226.711	146.510	16.047	1.00 90.73	JS10
ATOM	43417	CB	VAL	J	44	226.172	146.629	14.604	1.00 88.33	JS10
ATOM	43418	CG1	VAL	J	44	225.034	145.643	14.389	1.00 88.33	JS10
ATOM	43419	CG2	VAL	J	44	225.701	148.051	14.342	1.00 88.33	JS10
ATOM	43420	C	VAL	J	44	227.118	145.046	16.304	1.00 90.73	JS10
ATOM	43421	O	VAL	J	44	228.270	144.667	16.109	1.00 90.73	JS10
ATOM	43422	N	ARG	J	45	226.157	144.233	16.737	1.00113.91	JS10
ATOM	43423	CA	ARG	J	45	226.395	142.820	17.032	1.00113.91	JS10
ATOM	43424	CB	ARG	J	45	226.262	142.572	18.531	1.00111.58	JS10
ATOM	43425	CG	ARG	J	45	226.801	143.676	19.416	1.00111.58	JS10
ATOM	43426	CD	ARG	J	45	228.117	143.301	20.082	1.00111.58	JS10
ATOM	43427	NE	ARG	J	45	227.977	142.384	21.217	1.00111.58	JS10
ATOM	43428	CZ	ARG	J	45	227.564	141.123	21.133	1.00111.58	JS10
ATOM	43429	NH1	ARG	J	45	227.227	140.591	19.968	1.00111.58	JS10
ATOM	43430	NH2	ARG	J	45	227.522	140.374	22.218	1.00111.58	JS10
ATOM	43431	C	ARG	J	45	225.338	141.970	16.320	1.00113.91	JS10
ATOM	43432	O	ARG	J	45	224.156	142.057	16.665	1.00113.91	JS10
ATOM	43433	N	ARG	J	46	225.748	141.149	15.347	1.00 83.33	JS10
ATOM	43434	CA	ARG	J	46	224.803	140.293	14.612	1.00 83.33	JS10
ATOM	43435	CB	ARG	J	46	225.298	139.974	13.188	1.00113.26	JS10
ATOM	43436	CG	ARG	J	46	225.685	141.150	12.313	1.00113.26	JS10
ATOM	43437	CD	ARG	J	46	224.555	142.119	12.128	1.00113.26	JS10
ATOM	43438	NE	ARG	J	46	224.871	143.091	11.090	1.00113.26	JS10
ATOM	43439	CZ	ARG	J	46	224.190	144.217	10.884	1.00113.26	JS10
ATOM	43440	NH1	ARG	J	46	223.147	144.527	11.648	1.00113.26	JS10
ATOM	43441	NH2	ARG	J	46	224.551	145.039	9.907	1.00113.26	JS10
ATOM	43442	C	ARG	J	46	224.595	138.960	15.328	1.00 83.33	JS10
ATOM	43443	O	ARG	J	46	225.492	138.452	16.005	1.00 83.33	JS10
ATOM	43444	N	PHE	J	47	223.399	138.408	15.174	1.00118.11	JS10
ATOM	43445	CA	PHE	J	47	223.053	137.116	15.744	1.00118.11	JS10
ATOM	43446	CB	PHE	J	47	222.176	137.259	16.986	1.00111.97	JS10
ATOM	43447	CG	PHE	J	47	222.858	137.947	18.115	1.00111.97	JS10
ATOM	43448	CD1	PHE	J	47	222.616	139.293	18.372	1.00111.97	JS10
ATOM	43449	CD2	PHE	J	47	223.809	137.272	18.873	1.00111.97	JS10
ATOM	43450	CE1	PHE	J	47	223.319	139.962	19.367	1.00111.97	JS10
ATOM	43451	CE2	PHE	J	47	224.522	137.926	19.871	1.00111.97	JS10
ATOM	43452	CZ	PHE	J	47	224.280	139.277	20.121	1.00111.97	JS10
ATOM	43453	C	PHE	J	47	222.278	136.446	14.642	1.00118.11	JS10
ATOM	43454	O	PHE	J	47	221.128	136.796	14.384	1.00118.11	JS10
ATOM	43455	N	THR	J	48	222.922	135.501	13.971	1.00 87.01	JS10
ATOM	43456	CA	THR	J	48	222.287	134.794	12.875	1.00 87.01	JS10
ATOM	43457	CB	THR	J	48	223.268	134.603	11.732	1.00108.97	JS10
ATOM	43458	OG1	THR	J	48	223.441	135.853	11.054	1.00108.97	JS10
ATOM	43459	CG2	THR	J	48	222.763	133.555	10.770	1.00108.97	JS10
ATOM	43460	C	THR	J	48	221.786	133.452	13.361	1.00 87.01	JS10
ATOM	43461	O	THR	J	48	222.540	132.678	13.948	1.00 87.01	JS10
ATOM	43462	N	VAL	J	49	220.508	133.175	13.112	1.00 84.86	JS10
ATOM	43463	CA	VAL	J	49	219.930	131.927	13.574	1.00 84.86	JS10
ATOM	43464	CB	VAL	J	49	219.062	132.151	14.827	1.00 78.67	JS10
ATOM	43465	CG1	VAL	J	49	219.141	130.935	15.720	1.00 78.67	JS10
ATOM	43466	CG2	VAL	J	49	219.496	133.396	15.561	1.00 78.67	JS10
ATOM	43467	C	VAL	J	49	219.066	131.180	12.572	1.00 84.86	JS10
ATOM	43468	O	VAL	J	49	218.285	131.774	11.829	1.00 84.86	JS10
ATOM	43469	N	ILE	J	50	219.225	129.863	12.569	1.00 71.51	JS10
ATOM	43470	CA	ILE	J	50	218.440	128.978	11.729	1.00 71.51	JS10
ATOM	43471	CB	ILE	J	50	218.743	127.518	12.102	1.00 45.54	JS10
ATOM	43472	CG2	ILE	J	50	217.749	126.558	11.434	1.00 45.54	JS10
ATOM	43473	CG1	ILE	J	50	220.187	127.190	11.758	1.00 45.54	JS10
ATOM	43474	CD1	ILE	J	50	220.516	125.716	11.963	1.00 45.54	JS10
ATOM	43475	C	ILE	J	50	216.993	129.263	12.124	1.00 71.51	JS10
ATOM	43476	O	ILE	J	50	216.623	129.020	13.270	1.00 71.51	JS10
ATOM	43477	N	ARG	J	51	216.172	129.763	11.206	1.00 84.74	JS10
ATOM	43478	CA	ARG	J	51	214.781	130.064	11.539	1.00 84.74	JS10
ATOM	43479	CB	ARG	J	51	213.941	130.273	10.285	1.00 56.64	JS10
ATOM	43480	CG	ARG	J	51	213.506	131.699	10.068	1.00 56.64	JS10
ATOM	43481	CD	ARG	J	51	214.257	132.321	8.901	1.00 56.64	JS10
ATOM	43482	NE	ARG	J	51	213.999	133.751	8.724	1.00 56.64	JS10
ATOM	43483	CZ	ARG	J	51	212.796	134.317	8.790	1.00 56.64	JS10
ATOM	43484	NH1	ARG	J	51	211.711	133.586	9.045	1.00 56.64	JS10
ATOM	43485	NH2	ARG	J	51	212.671	135.619	8.576	1.00 56.64	JS10
ATOM	43486	C	ARG	J	51	214.075	129.035	12.414	1.00 84.74	JS10
ATOM	43487	O	ARG	J	51	213.681	129.351	13.537	1.00 84.74	JS10
ATOM	43488	N	GLY	J	52	213.897	127.815	11.916	1.00 69.75	JS10

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ATOM	43489	CA	GLY	J	52	213.209	126.816	12.720	1.00	69.75	JS10
ATOM	43490	C	GLY	J	52	214.116	125.832	13.437	1.00	69.75	JS10
ATOM	43491	O	GLY	J	52	215.339	125.879	13.291	1.00	69.75	JS10
ATOM	43492	N	PRO	J	53	213.548	124.937	14.254	1.00	80.59	JS10
ATOM	43493	CD	PRO	J	53	212.130	124.839	14.649	1.00	48.16	JS10
ATOM	43494	CA	PRO	J	53	214.370	123.948	14.966	1.00	80.59	JS10
ATOM	43495	CB	PRO	J	53	213.449	123.481	16.077	1.00	48.16	JS10
ATOM	43496	CG	PRO	J	53	212.086	123.490	15.377	1.00	48.16	JS10
ATOM	43497	C	PRO	J	53	214.653	122.814	13.988	1.00	80.59	JS10
ATOM	43498	O	PRO	J	53	214.141	122.822	12.862	1.00	80.59	JS10
ATOM	43499	N	PHE	J	54	215.453	121.841	14.405	1.00	79.60	JS10
ATOM	43500	CA	PHE	J	54	215.756	120.680	13.558	1.00	79.60	JS10
ATOM	43501	CB	PHE	J	54	214.684	119.620	13.767	1.00	75.82	JS10
ATOM	43502	CG	PHE	J	54	215.090	118.261	13.320	1.00	75.82	JS10
ATOM	43503	CD1	PHE	J	54	215.752	117.400	14.197	1.00	75.82	JS10
ATOM	43504	CD2	PHE	J	54	214.817	117.833	12.034	1.00	75.82	JS10
ATOM	43505	CE1	PHE	J	54	216.135	116.125	13.800	1.00	75.82	JS10
ATOM	43506	CE2	PHE	J	54	215.191	116.566	11.618	1.00	75.82	JS10
ATOM	43507	CZ	PHE	J	54	215.854	115.705	12.506	1.00	75.82	JS10
ATOM	43508	C	PHE	J	54	215.908	120.914	12.038	1.00	79.60	JS10
ATOM	43509	O	PHE	J	54	214.931	121.196	11.331	1.00	79.60	JS10
ATOM	43510	N	LYS	J	55	217.140	120.758	11.556	1.00	67.03	JS10
ATOM	43511	CA	LYS	J	55	217.502	120.909	10.145	1.00	67.03	JS10
ATOM	43512	CB	LYS	J	55	216.983	119.718	9.333	1.00	81.82	JS10
ATOM	43513	CG	LYS	J	55	215.517	119.731	8.983	1.00	81.82	JS10
ATOM	43514	CD	LYS	J	55	215.006	118.304	8.879	1.00	81.82	JS10
ATOM	43515	CE	LYS	J	55	213.993	118.131	7.761	1.00	81.82	JS10
ATOM	43516	NZ	LYS	J	55	214.670	117.908	6.459	1.00	81.82	JS10
ATOM	43517	C	LYS	J	55	217.075	122.218	9.509	1.00	67.03	JS10
ATOM	43518	O	LYS	J	55	216.816	123.178	10.211	1.00	67.03	JS10
ATOM	43519	N	HIS	J	56	217.024	122.254	8.180	1.00	69.76	JS10
ATOM	43520	CA	HIS	J	56	216.662	123.459	7.424	1.00	69.76	JS10
ATOM	43521	CB	HIS	J	56	215.355	124.072	7.962	1.00	90.44	JS10
ATOM	43522	CG	HIS	J	56	214.153	123.182	7.821	1.00	90.44	JS10
ATOM	43523	CD2	HIS	J	56	213.381	122.571	8.753	1.00	90.44	JS10
ATOM	43524	ND1	HIS	J	56	213.617	122.833	6.599	1.00	90.44	JS10
ATOM	43525	CE1	HIS	J	56	212.573	122.045	6.783	1.00	90.44	JS10
ATOM	43526	NE2	HIS	J	56	212.408	121.870	8.081	1.00	90.44	JS10
ATOM	43527	C	HIS	J	56	217.795	124.503	7.492	1.00	69.76	JS10
ATOM	43528	O	HIS	J	56	217.542	125.706	7.450	1.00	69.76	JS10
ATOM	43529	N	LYS	J	57	219.040	124.027	7.572	1.00	70.52	JS10
ATOM	43530	CA	LYS	J	57	220.231	124.884	7.677	1.00	70.52	JS10
ATOM	43531	CB	LYS	J	57	221.485	124.161	7.133	1.00	114.36	JS10
ATOM	43532	CG	LYS	J	57	221.535	123.995	5.576	1.00	114.36	JS10
ATOM	43533	CD	LYS	J	57	222.966	124.215	4.971	1.00	114.36	JS10
ATOM	43534	CE	LYS	J	57	223.035	124.103	3.421	1.00	114.36	JS10
ATOM	43535	NZ	LYS	J	57	224.376	124.436	2.822	1.00	114.36	JS10
ATOM	43536	C	LYS	J	57	220.156	126.260	7.013	1.00	70.52	JS10
ATOM	43537	O	LYS	J	57	220.834	127.188	7.449	1.00	70.52	JS10
ATOM	43538	N	ASP	J	58	219.349	126.400	5.965	1.00	70.58	JS10
ATOM	43539	CA	ASP	J	58	219.265	127.671	5.257	1.00	70.58	JS10
ATOM	43540	CB	ASP	J	58	219.033	127.410	3.785	1.00	125.38	JS10
ATOM	43541	CG	ASP	J	58	220.069	126.500	3.209	1.00	125.38	JS10
ATOM	43542	OD1	ASP	J	58	221.202	126.971	2.978	1.00	125.38	JS10
ATOM	43543	OD2	ASP	J	58	219.755	125.307	3.009	1.00	125.38	JS10
ATOM	43544	C	ASP	J	58	218.208	128.631	5.756	1.00	70.58	JS10
ATOM	43545	O	ASP	J	58	218.029	129.704	5.178	1.00	70.58	JS10
ATOM	43546	N	SER	J	59	217.509	128.252	6.822	1.00	96.70	JS10
ATOM	43547	CA	SER	J	59	216.463	129.092	7.396	1.00	96.70	JS10
ATOM	43548	CB	SER	J	59	216.032	128.523	8.746	1.00	190.38	JS10
ATOM	43549	OG	SER	J	59	215.476	127.226	8.607	1.00	190.38	JS10
ATOM	43550	C	SER	J	59	216.994	130.507	7.564	1.00	96.70	JS10
ATOM	43551	O	SER	J	59	216.726	131.372	6.734	1.00	96.70	JS10
ATOM	43552	N	ARG	J	60	217.728	130.736	8.649	1.00	67.54	JS10
ATOM	43553	CA	ARG	J	60	218.350	132.030	8.915	1.00	67.54	JS10
ATOM	43554	CB	ARG	J	60	219.418	132.288	7.870	1.00	79.04	JS10
ATOM	43555	CG	ARG	J	60	220.720	131.645	8.185	1.00	79.04	JS10
ATOM	43556	CD	ARG	J	60	220.555	130.201	8.589	1.00	79.04	JS10
ATOM	43557	NE	ARG	J	60	221.782	129.742	9.224	1.00	79.04	JS10
ATOM	43558	CZ	ARG	J	60	222.937	129.564	8.592	1.00	79.04	JS10
ATOM	43559	NH1	ARG	J	60	223.039	129.791	7.289	1.00	79.04	JS10
ATOM	43560	NH2	ARG	J	60	224.004	129.184	9.277	1.00	79.04	JS10
ATOM	43561	C	ARG	J	60	217.547	133.314	9.052	1.00	67.54	JS10
ATOM	43562	O	ARG	J	60	216.980	133.817	8.080	1.00	67.54	JS10
ATOM	43563	N	GLU	J	61	217.525	133.853	10.269	1.00	86.34	JS10
ATOM	43564	CA	GLU	J	61	216.873	135.133	10.537	1.00	86.34	JS10
ATOM	43565	CB	GLU	J	61	215.661	135.006	11.463	1.00	86.83	JS10

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ATOM	43566	CG	GLU	J	61	215.024	136.367	11.763	1.00	86.83	JS10
ATOM	43567	CD	GLU	J	61	213.677	136.265	12.454	1.00	86.83	JS10
ATOM	43568	OE1	GLU	J	61	213.593	135.554	13.478	1.00	86.83	JS10
ATOM	43569	OE2	GLU	J	61	212.707	136.906	11.981	1.00	86.83	JS10
ATOM	43570	C	GLU	J	61	217.951	135.963	11.210	1.00	86.34	JS10
ATOM	43571	O	GLU	J	61	218.620	135.487	12.126	1.00	86.34	JS10
ATOM	43572	N	HIS	J	62	218.122	137.193	10.735	1.00	101.07	JS10
ATOM	43573	CA	HIS	J	62	219.142	138.101	11.250	1.00	101.07	JS10
ATOM	43574	CB	HIS	J	62	219.722	138.921	10.090	1.00	96.89	JS10
ATOM	43575	CG	HIS	J	62	220.797	138.214	9.320	1.00	96.89	JS10
ATOM	43576	CD2	HIS	J	62	221.598	137.174	9.654	1.00	96.89	JS10
ATOM	43577	ND1	HIS	J	62	221.176	138.595	8.049	1.00	96.89	JS10
ATOM	43578	CE1	HIS	J	62	222.162	137.820	7.635	1.00	96.89	JS10
ATOM	43579	NE2	HIS	J	62	222.438	136.950	8.590	1.00	96.89	JS10
ATOM	43580	C	HIS	J	62	218.696	139.047	12.370	1.00	101.07	JS10
ATOM	43581	O	HIS	J	62	217.669	139.720	12.269	1.00	101.07	JS10
ATOM	43582	N	PHE	J	63	219.493	139.086	13.435	1.00	105.62	JS10
ATOM	43583	CA	PHE	J	63	219.239	139.938	14.594	1.00	105.62	JS10
ATOM	43584	CB	PHE	J	63	218.874	139.107	15.828	1.00	71.92	JS10
ATOM	43585	CG	PHE	J	63	217.573	138.385	15.720	1.00	71.92	JS10
ATOM	43586	CD1	PHE	J	63	217.506	137.016	16.000	1.00	71.92	JS10
ATOM	43587	CD2	PHE	J	63	216.410	139.066	15.364	1.00	71.92	JS10
ATOM	43588	CE1	PHE	J	63	216.298	136.332	15.926	1.00	71.92	JS10
ATOM	43589	CE2	PHE	J	63	215.201	138.396	15.287	1.00	71.92	JS10
ATOM	43590	CZ	PHE	J	63	215.143	137.023	15.569	1.00	71.92	JS10
ATOM	43591	C	PHE	J	63	220.516	140.686	14.931	1.00	105.62	JS10
ATOM	43592	O	PHE	J	63	221.577	140.079	15.050	1.00	105.62	JS10
ATOM	43593	N	GLU	J	64	220.423	141.997	15.090	1.00	89.38	JS10
ATOM	43594	CA	GLU	J	64	221.596	142.761	15.466	1.00	89.38	JS10
ATOM	43595	CB	GLU	J	64	222.056	143.635	14.301	1.00	111.84	JS10
ATOM	43596	CG	GLU	J	64	220.939	144.297	13.532	1.00	111.84	JS10
ATOM	43597	CD	GLU	J	64	220.599	145.673	14.059	1.00	111.84	JS10
ATOM	43598	OE1	GLU	J	64	220.130	145.778	15.214	1.00	111.84	JS10
ATOM	43599	OE2	GLU	J	64	220.805	146.654	13.311	1.00	111.84	JS10
ATOM	43600	C	GLU	J	64	221.290	143.589	16.712	1.00	89.38	JS10
ATOM	43601	O	GLU	J	64	220.136	143.717	17.119	1.00	89.38	JS10
ATOM	43602	N	LEU	J	65	222.328	144.129	17.335	1.00	106.70	JS10
ATOM	43603	CA	LEU	J	65	222.161	144.932	18.539	1.00	106.70	JS10
ATOM	43604	CB	LEU	J	65	222.487	144.071	19.763	1.00	73.86	JS10
ATOM	43605	CG	LEU	J	65	222.261	144.609	21.177	1.00	73.86	JS10
ATOM	43606	CD1	LEU	J	65	222.674	143.553	22.186	1.00	73.86	JS10
ATOM	43607	CD2	LEU	J	65	223.071	145.864	21.401	1.00	73.86	JS10
ATOM	43608	C	LEU	J	65	223.123	146.112	18.444	1.00	106.70	JS10
ATOM	43609	O	LEU	J	65	224.277	146.006	18.855	1.00	106.70	JS10
ATOM	43610	N	ARG	J	66	222.657	147.232	17.899	1.00	107.61	JS10
ATOM	43611	CA	ARG	J	66	223.510	148.407	17.750	1.00	107.61	JS10
ATOM	43612	CB	ARG	J	66	223.021	149.262	16.573	1.00	154.86	JS10
ATOM	43613	CG	ARG	J	66	221.511	149.310	16.407	1.00	154.86	JS10
ATOM	43614	CD	ARG	J	66	221.119	149.972	15.090	1.00	154.86	JS10
ATOM	43615	NE	ARG	J	66	221.912	149.471	13.966	1.00	154.86	JS10
ATOM	43616	CZ	ARG	J	66	221.631	149.691	12.683	1.00	154.86	JS10
ATOM	43617	NH1	ARG	J	66	220.565	150.405	12.337	1.00	154.86	JS10
ATOM	43618	NH2	ARG	J	66	222.423	149.198	11.739	1.00	154.86	JS10
ATOM	43619	C	ARG	J	66	223.641	149.262	19.014	1.00	107.61	JS10
ATOM	43620	O	ARG	J	66	222.669	149.873	19.475	1.00	107.61	JS10
ATOM	43621	N	THR	J	67	224.857	149.289	19.565	1.00	109.62	JS10
ATOM	43622	CA	THR	J	67	225.189	150.051	20.772	1.00	109.62	JS10
ATOM	43623	CB	THR	J	67	226.299	149.369	21.590	1.00	74.83	JS10
ATOM	43624	OG1	THR	J	67	225.807	148.148	22.153	1.00	74.83	JS10
ATOM	43625	CG2	THR	J	67	226.775	150.283	22.701	1.00	74.83	JS10
ATOM	43626	C	THR	J	67	225.702	151.424	20.388	1.00	109.62	JS10
ATOM	43627	O	THR	J	67	226.838	151.564	19.941	1.00	109.62	JS10
ATOM	43628	N	HIS	J	68	224.869	152.435	20.587	1.00	108.71	JS10
ATOM	43629	CA	HIS	J	68	225.232	153.801	20.241	1.00	108.71	JS10
ATOM	43630	CB	HIS	J	68	223.965	154.625	20.058	1.00	109.34	JS10
ATOM	43631	CG	HIS	J	68	223.031	154.063	19.035	1.00	109.34	JS10
ATOM	43632	CD2	HIS	J	68	221.925	153.293	19.169	1.00	109.34	JS10
ATOM	43633	ND1	HIS	J	68	223.212	154.245	17.681	1.00	109.34	JS10
ATOM	43634	CE1	HIS	J	68	222.256	153.612	17.025	1.00	109.34	JS10
ATOM	43635	NE2	HIS	J	68	221.463	153.026	17.904	1.00	109.34	JS10
ATOM	43636	C	HIS	J	68	226.149	154.476	21.256	1.00	108.71	JS10
ATOM	43637	O	HIS	J	68	226.387	153.952	22.346	1.00	108.71	JS10
ATOM	43638	N	ASN	J	69	226.663	155.644	20.879	1.00	107.44	JS10
ATOM	43639	CA	ASN	J	69	227.561	156.414	21.731	1.00	107.44	JS10
ATOM	43640	CB	ASN	J	69	229.022	156.111	21.370	1.00	100.73	JS10
ATOM	43641	CG	ASN	J	69	229.397	154.660	21.601	1.00	100.73	JS10
ATOM	43642	OD1	ASN	J	69	229.339	154.160	22.723	1.00	100.73	JS10

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ATOM	43643	ND2	ASN	J	69	229.785	153.976	20.535	1.00100.73	JS10
ATOM	43644	C	ASN	J	69	227.305	157.916	21.585	1.00107.44	JS10
ATOM	43645	O	ASN	J	69	226.703	158.362	20.608	1.00107.44	JS10
ATOM	43646	N	ARG	J	70	227.766	158.680	22.574	1.00146.38	JS10
ATOM	43647	CA	ARG	J	70	227.639	160.137	22.603	1.00146.38	JS10
ATOM	43648	CB	ARG	J	70	226.276	160.544	23.171	1.00128.22	JS10
ATOM	43649	CG	ARG	J	70	225.090	160.062	22.344	1.00128.22	JS10
ATOM	43650	CD	ARG	J	70	225.210	160.538	20.910	1.00128.22	JS10
ATOM	43651	NE	ARG	J	70	224.156	159.997	20.059	1.00128.22	JS10
ATOM	43652	CZ	ARG	J	70	224.150	160.094	18.732	1.00128.22	JS10
ATOM	43653	NH1	ARG	J	70	225.146	160.705	18.106	1.00128.22	JS10
ATOM	43654	NH2	ARG	J	70	223.143	159.593	18.028	1.00128.22	JS10
ATOM	43655	C	ARG	J	70	228.771	160.690	23.478	1.00146.38	JS10
ATOM	43656	O	ARG	J	70	229.111	160.097	24.505	1.00146.38	JS10
ATOM	43657	N	LEU	J	71	229.356	161.817	23.078	1.00144.98	JS10
ATOM	43658	CA	LEU	J	71	230.462	162.389	23.839	1.00144.98	JS10
ATOM	43659	CB	LEU	J	71	231.679	162.547	22.930	1.00122.26	JS10
ATOM	43660	CG	LEU	J	71	233.061	162.477	23.598	1.00122.26	JS10
ATOM	43661	CD1	LEU	J	71	233.411	163.797	24.247	1.00122.26	JS10
ATOM	43662	CD2	LEU	J	71	233.077	161.338	24.615	1.00122.26	JS10
ATOM	43663	C	LEU	J	71	230.143	163.717	24.522	1.00144.98	JS10
ATOM	43664	O	LEU	J	71	230.110	163.791	25.750	1.00144.98	JS10
ATOM	43665	N	VAL	J	72	229.930	164.767	23.736	1.00160.43	JS10
ATOM	43666	CA	VAL	J	72	229.601	166.075	24.301	1.00160.43	JS10
ATOM	43667	CB	VAL	J	72	228.460	165.928	25.328	1.00126.46	JS10
ATOM	43668	CG1	VAL	J	72	228.021	167.284	25.825	1.00126.46	JS10
ATOM	43669	CG2	VAL	J	72	227.291	165.187	24.690	1.00126.46	JS10
ATOM	43670	C	VAL	J	72	230.803	166.791	24.948	1.00160.43	JS10
ATOM	43671	O	VAL	J	72	231.519	167.529	24.268	1.00160.43	JS10
ATOM	43672	N	ASP	J	73	231.012	166.588	26.252	1.00106.47	JS10
ATOM	43673	CA	ASP	J	73	232.137	167.202	26.986	1.00106.47	JS10
ATOM	43674	CB	ASP	J	73	233.469	166.859	26.294	1.00131.30	JS10
ATOM	43675	CG	ASP	J	73	234.117	165.597	26.854	1.00131.30	JS10
ATOM	43676	OD1	ASP	J	73	233.387	164.735	27.393	1.00131.30	JS10
ATOM	43677	OD2	ASP	J	73	235.355	165.460	26.745	1.00131.30	JS10
ATOM	43678	C	ASP	J	73	232.085	168.721	27.256	1.00106.47	JS10
ATOM	43679	O	ASP	J	73	231.887	169.535	26.347	1.00106.47	JS10
ATOM	43680	N	ILE	J	74	232.275	169.081	28.528	1.00126.64	JS10
ATOM	43681	CA	ILE	J	74	232.279	170.477	28.975	1.00126.64	JS10
ATOM	43682	CB	ILE	J	74	231.062	170.821	29.872	1.00 98.00	JS10
ATOM	43683	CG2	ILE	J	74	230.242	171.927	29.220	1.00 98.00	JS10
ATOM	43684	CG1	ILE	J	74	230.256	169.552	30.184	1.00 98.00	JS10
ATOM	43685	CD1	ILE	J	74	229.102	169.759	31.149	1.00 98.00	JS10
ATOM	43686	C	ILE	J	74	233.523	170.760	29.804	1.00126.64	JS10
ATOM	43687	O	ILE	J	74	233.785	170.078	30.798	1.00126.64	JS10
ATOM	43688	N	ILE	J	75	234.289	171.762	29.386	1.00198.84	JS10
ATOM	43689	CA	ILE	J	75	235.493	172.160	30.103	1.00198.84	JS10
ATOM	43690	CB	ILE	J	75	236.603	172.618	29.124	1.00151.04	JS10
ATOM	43691	CG2	ILE	J	75	237.790	173.170	29.896	1.00151.04	JS10
ATOM	43692	CG1	ILE	J	75	237.046	171.438	28.253	1.00151.04	JS10
ATOM	43693	CD1	ILE	J	75	238.161	171.761	27.277	1.00151.04	JS10
ATOM	43694	C	ILE	J	75	235.081	173.317	31.013	1.00198.84	JS10
ATOM	43695	O	ILE	J	75	234.066	173.963	30.758	1.00198.84	JS10
ATOM	43696	N	ASN	J	76	235.844	173.569	32.075	1.00116.22	JS10
ATOM	43697	CA	ASN	J	76	235.518	174.649	33.012	1.00116.22	JS10
ATOM	43698	CB	ASN	J	76	235.303	175.976	32.267	1.00185.61	JS10
ATOM	43699	CG	ASN	J	76	236.377	176.253	31.233	1.00185.61	JS10
ATOM	43700	OD1	ASN	J	76	237.567	176.259	31.543	1.00185.61	JS10
ATOM	43701	ND2	ASN	J	76	235.956	176.491	29.994	1.00185.61	JS10
ATOM	43702	C	ASN	J	76	234.242	174.317	33.795	1.00116.22	JS10
ATOM	43703	O	ASN	J	76	233.203	174.956	33.606	1.00116.22	JS10
ATOM	43704	N	PRO	J	77	234.299	173.301	34.672	1.00177.62	JS10
ATOM	43705	CD	PRO	J	77	235.467	172.456	34.978	1.00132.67	JS10
ATOM	43706	CA	PRO	J	77	233.140	172.900	35.478	1.00177.62	JS10
ATOM	43707	CB	PRO	J	77	233.606	171.598	36.120	1.00132.67	JS10
ATOM	43708	CG	PRO	J	77	235.072	171.835	36.301	1.00132.67	JS10
ATOM	43709	C	PRO	J	77	232.851	173.987	36.506	1.00177.62	JS10
ATOM	43710	O	PRO	J	77	233.779	174.541	37.096	1.00177.62	JS10
ATOM	43711	N	ASN	J	78	231.578	174.293	36.737	1.00126.54	JS10
ATOM	43712	CA	ASN	J	78	231.270	175.355	37.679	1.00126.54	JS10
ATOM	43713	CB	ASN	J	78	231.116	176.674	36.922	1.00198.84	JS10
ATOM	43714	CG	ASN	J	78	232.290	176.963	36.014	1.00198.84	JS10
ATOM	43715	OD1	ASN	J	78	233.424	177.103	36.472	1.00198.84	JS10
ATOM	43716	ND2	ASN	J	78	232.026	177.049	34.715	1.00198.84	JS10
ATOM	43717	C	ASN	J	78	230.059	175.169	38.571	1.00126.54	JS10
ATOM	43718	O	ASN	J	78	229.020	175.772	38.317	1.00126.54	JS10
ATOM	43719	N	ARG	J	79	230.202	174.354	39.614	1.00154.42	JS10

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ATOM	43720	CA	ARG	J	79	229.136	174.121	40.591	1.00154.42	JS10
ATOM	43721	CB	ARG	J	79	229.203	175.206	41.672	1.00198.42	JS10
ATOM	43722	CG	ARG	J	79	230.270	174.975	42.726	1.00198.42	JS10
ATOM	43723	CD	ARG	J	79	229.751	174.036	43.799	1.00198.42	JS10
ATOM	43724	NE	ARG	J	79	230.799	173.579	44.706	1.00198.42	JS10
ATOM	43725	CZ	ARG	J	79	231.794	172.774	44.348	1.00198.42	JS10
ATOM	43726	NH1	ARG	J	79	231.881	172.337	43.098	1.00198.42	JS10
ATOM	43727	NH2	ARG	J	79	232.696	172.397	45.244	1.00198.42	JS10
ATOM	43728	C	ARG	J	79	227.703	174.039	40.050	1.00154.42	JS10
ATOM	43729	O	ARG	J	79	227.077	172.979	40.102	1.00154.42	JS10
ATOM	43730	N	LYS	J	80	227.183	175.168	39.562	1.00198.84	JS10
ATOM	43731	CA	LYS	J	80	225.826	175.251	39.009	1.00198.84	JS10
ATOM	43732	CB	LYS	J	80	225.537	176.684	38.542	1.00130.59	JS10
ATOM	43733	CG	LYS	J	80	224.139	176.897	37.974	1.00130.59	JS10
ATOM	43734	CD	LYS	J	80	223.076	176.733	39.040	1.00130.59	JS10
ATOM	43735	CE	LYS	J	80	223.233	177.786	40.118	1.00130.59	JS10
ATOM	43736	NZ	LYS	J	80	222.244	177.604	41.211	1.00130.59	JS10
ATOM	43737	C	LYS	J	80	225.634	174.278	37.843	1.00198.84	JS10
ATOM	43738	O	LYS	J	80	224.507	173.899	37.509	1.00198.84	JS10
ATOM	43739	N	THR	J	81	226.745	173.891	37.221	1.00198.83	JS10
ATOM	43740	CA	THR	J	81	226.723	172.950	36.109	1.00198.83	JS10
ATOM	43741	CB	THR	J	81	228.082	172.917	35.377	1.00161.75	JS10
ATOM	43742	OG1	THR	J	81	228.680	174.219	35.410	1.00161.75	JS10
ATOM	43743	CG2	THR	J	81	227.891	172.501	33.925	1.00161.75	JS10
ATOM	43744	C	THR	J	81	226.468	171.584	36.736	1.00198.83	JS10
ATOM	43745	O	THR	J	81	225.541	170.867	36.354	1.00198.83	JS10
ATOM	43746	N	ILE	J	82	227.307	171.252	37.714	1.00155.04	JS10
ATOM	43747	CA	ILE	J	82	227.221	170.000	38.457	1.00155.04	JS10
ATOM	43748	CB	ILE	J	82	228.517	169.760	39.265	1.00116.57	JS10
ATOM	43749	CG2	ILE	J	82	228.550	168.329	39.789	1.00116.57	JS10
ATOM	43750	CG1	ILE	J	82	229.740	170.047	38.383	1.00116.57	JS10
ATOM	43751	CD1	ILE	J	82	231.073	169.940	39.110	1.00116.57	JS10
ATOM	43752	C	ILE	J	82	226.044	170.122	39.430	1.00155.04	JS10
ATOM	43753	O	ILE	J	82	225.951	169.391	40.421	1.00155.04	JS10
ATOM	43754	N	GLU	J	83	225.155	171.067	39.127	1.00182.82	JS10
ATOM	43755	CA	GLU	J	83	223.971	171.342	39.935	1.00182.82	JS10
ATOM	43756	CB	GLU	J	83	223.987	172.806	40.378	1.00184.56	JS10
ATOM	43757	CG	GLU	J	83	222.896	173.186	41.353	1.00184.56	JS10
ATOM	43758	CD	GLU	J	83	223.379	174.186	42.382	1.00184.56	JS10
ATOM	43759	OE1	GLU	J	83	224.337	173.858	43.114	1.00184.56	JS10
ATOM	43760	OE2	GLU	J	83	222.806	175.293	42.461	1.00184.56	JS10
ATOM	43761	C	GLU	J	83	222.711	171.046	39.121	1.00182.82	JS10
ATOM	43762	O	GLU	J	83	221.838	170.288	39.556	1.00182.82	JS10
ATOM	43763	N	GLN	J	84	222.620	171.650	37.939	1.00198.84	JS10
ATOM	43764	CA	GLN	J	84	221.480	171.422	37.059	1.00198.84	JS10
ATOM	43765	CB	GLN	J	84	221.603	172.270	35.798	1.00184.13	JS10
ATOM	43766	CG	GLN	J	84	221.792	173.738	36.059	1.00184.13	JS10
ATOM	43767	CD	GLN	J	84	221.906	174.523	34.778	1.00184.13	JS10
ATOM	43768	OE1	GLN	J	84	221.008	174.488	33.935	1.00184.13	JS10
ATOM	43769	NE2	GLN	J	84	223.013	175.238	34.618	1.00184.13	JS10
ATOM	43770	C	GLN	J	84	221.528	169.954	36.671	1.00198.84	JS10
ATOM	43771	O	GLN	J	84	220.573	169.204	36.879	1.00198.84	JS10
ATOM	43772	N	LEU	J	85	222.666	169.560	36.105	1.00198.84	JS10
ATOM	43773	CA	LEU	J	85	222.894	168.186	35.680	1.00198.84	JS10
ATOM	43774	CB	LEU	J	85	224.317	168.038	35.122	1.00146.15	JS10
ATOM	43775	CG	LEU	J	85	224.746	169.007	34.011	1.00146.15	JS10
ATOM	43776	CD1	LEU	J	85	226.151	168.648	33.532	1.00146.15	JS10
ATOM	43777	CD2	LEU	J	85	223.754	168.947	32.853	1.00146.15	JS10
ATOM	43778	C	LEU	J	85	222.708	167.255	36.875	1.00198.84	JS10
ATOM	43779	O	LEU	J	85	221.675	166.598	37.007	1.00198.84	JS10
ATOM	43780	N	MET	J	86	223.719	167.225	37.740	1.00178.37	JS10
ATOM	43781	CA	MET	J	86	223.739	166.399	38.946	1.00178.37	JS10
ATOM	43782	CB	MET	J	86	223.945	167.284	40.174	1.00175.72	JS10
ATOM	43783	CG	MET	J	86	224.303	166.499	41.412	1.00175.72	JS10
ATOM	43784	SD	MET	J	86	225.630	165.338	41.043	1.00175.72	JS10
ATOM	43785	CE	MET	J	86	224.727	163.771	40.959	1.00175.72	JS10
ATOM	43786	C	MET	J	86	222.527	165.495	39.177	1.00178.37	JS10
ATOM	43787	O	MET	J	86	222.641	164.269	39.111	1.00178.37	JS10
ATOM	43788	N	THR	J	87	221.371	166.091	39.455	1.00167.15	JS10
ATOM	43789	CA	THR	J	87	220.165	165.304	39.695	1.00167.15	JS10
ATOM	43790	CB	THR	J	87	219.835	165.248	41.210	1.00198.80	JS10
ATOM	43791	OG1	THR	J	87	221.002	164.839	41.935	1.00124.81	JS10
ATOM	43792	CG2	THR	J	87	218.699	164.254	41.487	1.00124.81	JS10
ATOM	43793	C	THR	J	87	218.949	165.840	38.940	1.00167.15	JS10
ATOM	43794	O	THR	J	87	218.003	166.344	39.546	1.00167.15	JS10
ATOM	43795	N	LEU	J	88	218.979	165.730	37.614	1.00193.85	JS10
ATOM	43796	CA	LEU	J	88	217.872	166.188	36.775	1.00193.85	JS10

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ATOM	43797	CB	LEU	J	88	217.947	167.714	36.564	1.00181.15	JS10
ATOM	43798	CG	LEU	J	88	217.551	168.660	37.715	1.00105.27	JS10
ATOM	43799	CD1	LEU	J	88	217.825	170.102	37.310	1.00105.27	JS10
ATOM	43800	CD2	LEU	J	88	216.071	168.483	38.065	1.00105.27	JS10
ATOM	43801	C	LEU	J	88	217.843	165.462	35.421	1.00193.85	JS10
ATOM	43802	O	LEU	J	88	217.601	166.075	34.379	1.00193.85	JS10
ATOM	43803	N	ASP	J	89	218.086	164.151	35.451	1.00198.81	JS10
ATOM	43804	CA	ASP	J	89	218.082	163.324	34.242	1.00198.81	JS10
ATOM	43805	CB	ASP	J	89	219.175	162.250	34.321	1.00198.84	JS10
ATOM	43806	CG	ASP	J	89	218.997	161.310	35.503	1.00198.84	JS10
ATOM	43807	OD1	ASP	J	89	219.053	161.781	36.662	1.00198.84	JS10
ATOM	43808	OD2	ASP	J	89	218.804	160.096	35.270	1.00198.84	JS10
ATOM	43809	C	ASP	J	89	216.718	162.661	34.060	1.00198.81	JS10
ATOM	43810	O	ASP	J	89	215.793	162.928	34.828	1.00198.81	JS10
ATOM	43811	N	LEU	J	90	216.589	161.795	33.056	1.00198.84	JS10
ATOM	43812	CA	LEU	J	90	215.307	161.136	32.816	1.00198.84	JS10
ATOM	43813	CB	LEU	J	90	214.399	162.065	31.998	1.00198.84	JS10
ATOM	43814	CG	LEU	J	90	213.893	163.332	32.700	1.00178.67	JS10
ATOM	43815	CD1	LEU	J	90	213.163	164.231	31.710	1.00178.67	JS10
ATOM	43816	CD2	LEU	J	90	212.975	162.939	33.854	1.00178.67	JS10
ATOM	43817	C	LEU	J	90	215.317	159.739	32.171	1.00198.84	JS10
ATOM	43818	O	LEU	J	90	214.802	158.785	32.758	1.00198.84	JS10
ATOM	43819	N	PRO	J	91	215.905	159.594	30.968	1.00139.71	JS10
ATOM	43820	CD	PRO	J	91	216.836	160.534	30.319	1.00138.68	JS10
ATOM	43821	CA	PRO	J	91	215.940	158.287	30.292	1.00139.71	JS10
ATOM	43822	CB	PRO	J	91	216.986	158.497	29.191	1.00157.77	JS10
ATOM	43823	CG	PRO	J	91	217.853	159.598	29.732	1.00138.68	JS10
ATOM	43824	C	PRO	J	91	216.227	157.051	31.159	1.00139.71	JS10
ATOM	43825	O	PRO	J	91	216.852	157.148	32.216	1.00139.71	JS10
ATOM	43826	N	THR	J	92	215.752	155.894	30.695	1.00111.40	JS10
ATOM	43827	CA	THR	J	92	215.932	154.613	31.387	1.00111.40	JS10
ATOM	43828	CB	THR	J	92	214.611	153.848	31.493	1.00 91.62	JS10
ATOM	43829	OG1	THR	J	92	213.644	154.664	32.156	1.00 91.62	JS10
ATOM	43830	CG2	THR	J	92	214.804	152.550	32.265	1.00 91.62	JS10
ATOM	43831	C	THR	J	92	216.903	153.709	30.635	1.00111.40	JS10
ATOM	43832	O	THR	J	92	217.793	153.094	31.228	1.00111.40	JS10
ATOM	43833	N	GLY	J	93	216.707	153.624	29.324	1.00156.98	JS10
ATOM	43834	CA	GLY	J	93	217.558	152.795	28.491	1.00156.98	JS10
ATOM	43835	C	GLY	J	93	218.946	153.371	28.296	1.00156.98	JS10
ATOM	43836	O	GLY	J	93	219.763	152.807	27.563	1.00156.98	JS10
ATOM	43837	N	VAL	J	94	219.211	154.504	28.941	1.00116.94	JS10
ATOM	43838	CA	VAL	J	94	220.519	155.137	28.847	1.00116.94	JS10
ATOM	43839	CB	VAL	J	94	220.421	156.684	28.814	1.00 73.24	JS10
ATOM	43840	CG1	VAL	J	94	221.828	157.287	28.760	1.00 73.24	JS10
ATOM	43841	CG2	VAL	J	94	219.608	157.142	27.611	1.00 73.24	JS10
ATOM	43842	C	VAL	J	94	221.343	154.740	30.063	1.00116.94	JS10
ATOM	43843	O	VAL	J	94	220.793	154.420	31.122	1.00116.94	JS10
ATOM	43844	N	GLU	J	95	222.661	154.747	29.900	1.00113.66	JS10
ATOM	43845	CA	GLU	J	95	223.567	154.405	30.986	1.00113.66	JS10
ATOM	43846	CB	GLU	J	95	223.846	152.901	31.006	1.00132.57	JS10
ATOM	43847	CG	GLU	J	95	224.482	152.406	32.296	1.00132.57	JS10
ATOM	43848	CD	GLU	J	95	225.894	151.895	32.088	1.00132.57	JS10
ATOM	43849	OE1	GLU	J	95	226.744	152.678	31.605	1.00132.57	JS10
ATOM	43850	OE2	GLU	J	95	226.150	150.710	32.405	1.00132.57	JS10
ATOM	43851	C	GLU	J	95	224.852	155.196	30.778	1.00113.66	JS10
ATOM	43852	O	GLU	J	95	225.751	154.795	30.034	1.00113.66	JS10
ATOM	43853	N	ILE	J	96	224.908	156.336	31.453	1.00164.40	JS10
ATOM	43854	CA	ILE	J	96	226.027	157.258	31.375	1.00164.40	JS10
ATOM	43855	CB	ILE	J	96	225.663	158.600	32.009	1.00102.19	JS10
ATOM	43856	CG2	ILE	J	96	226.561	159.703	31.447	1.00102.19	JS10
ATOM	43857	CG1	ILE	J	96	224.180	158.883	31.761	1.00102.19	JS10
ATOM	43858	CD1	ILE	J	96	223.613	160.028	32.565	1.00102.19	JS10
ATOM	43859	C	ILE	J	96	227.278	156.771	32.071	1.00164.40	JS10
ATOM	43860	O	ILE	J	96	227.261	155.826	32.861	1.00164.40	JS10
ATOM	43861	N	GLU	J	97	228.363	157.463	31.764	1.00129.51	JS10
ATOM	43862	CA	GLU	J	97	229.669	157.196	32.325	1.00129.51	JS10
ATOM	43863	CB	GLU	J	97	230.355	156.046	31.590	1.00198.84	JS10
ATOM	43864	CG	GLU	J	97	230.135	154.699	32.237	1.00198.84	JS10
ATOM	43865	CD	GLU	J	97	230.652	154.664	33.658	1.00198.84	JS10
ATOM	43866	OE1	GLU	J	97	231.862	154.907	33.852	1.00198.84	JS10
ATOM	43867	OE2	GLU	J	97	229.848	154.398	34.577	1.00198.84	JS10
ATOM	43868	C	GLU	J	97	230.451	158.471	32.122	1.00129.51	JS10
ATOM	43869	O	GLU	J	97	230.675	158.896	30.992	1.00129.51	JS10
ATOM	43870	N	ILE	J	98	230.836	159.105	33.218	1.00159.46	JS10
ATOM	43871	CA	ILE	J	98	231.602	160.329	33.117	1.00159.46	JS10
ATOM	43872	CB	ILE	J	98	230.898	161.515	33.795	1.00111.94	JS10
ATOM	43873	CG2	ILE	J	98	231.619	162.799	33.446	1.00111.94	JS10

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ATOM	43874	CG1	ILE	J	98	229.452	161.623	33.319	1.00111.94	JS10
ATOM	43875	CD1	ILE	J	98	228.652	162.649	34.091	1.00111.94	JS10
ATOM	43876	C	ILE	J	98	232.925	160.109	33.814	1.00159.46	JS10
ATOM	43877	O	ILE	J	98	233.029	159.308	34.744	1.00159.46	JS10
ATOM	43878	N	LYS	J	99	233.938	160.818	33.341	1.00143.90	JS10
ATOM	43879	CA	LYS	J	99	235.263	160.736	33.917	1.00143.90	JS10
ATOM	43880	CB	LYS	J	99	236.068	159.616	33.259	1.00166.48	JS10
ATOM	43881	CG	LYS	J	99	235.553	158.223	33.586	1.00166.48	JS10
ATOM	43882	CD	LYS	J	99	236.494	157.155	33.067	1.00166.48	JS10
ATOM	43883	CE	LYS	J	99	235.992	155.769	33.412	1.00166.48	JS10
ATOM	43884	NZ	LYS	J	99	236.932	154.731	32.926	1.00166.48	JS10
ATOM	43885	C	LYS	J	99	235.931	162.076	33.694	1.00143.90	JS10
ATOM	43886	O	LYS	J	99	236.871	162.191	32.912	1.00143.90	JS10
ATOM	43887	N	ALA	J	100	235.420	163.092	34.382	1.00187.10	JS10
ATOM	43888	CA	ALA	J	100	235.956	164.439	34.272	1.00187.10	JS10
ATOM	43889	CB	ALA	J	100	235.263	165.357	35.287	1.00125.39	JS10
ATOM	43890	C	ALA	J	100	237.464	164.407	34.516	1.00187.10	JS10
ATOM	43891	O	ALA	J	100	237.938	163.423	35.125	1.00187.10	JS10
ATOM	43892	OXT	ALA	J	100	238.155	165.362	34.099	1.00125.39	JS10
TER	43892	ALA	J	100						JS10
ATOM	43893	CB	LYS	K	11	227.473	115.888	-80.480	1.00128.36	KS11
ATOM	43894	CG	LYS	K	11	228.731	115.998	-79.631	1.00128.36	KS11
ATOM	43895	CD	LYS	K	11	229.667	114.819	-79.849	1.00128.36	KS11
ATOM	43896	CE	LYS	K	11	230.901	114.930	-78.963	1.00128.36	KS11
ATOM	43897	NZ	LYS	K	11	231.845	113.793	-79.158	1.00128.36	KS11
ATOM	43898	C	LYS	K	11	225.354	116.956	-81.283	1.00176.43	KS11
ATOM	43899	O	LYS	K	11	225.072	115.888	-81.828	1.00176.43	KS11
ATOM	43900	N	LYS	K	11	225.998	117.060	-78.876	1.00176.43	KS11
ATOM	43901	CA	LYS	K	11	226.498	117.051	-80.279	1.00176.43	KS11
ATOM	43902	N	ARG	K	12	224.703	118.092	-81.512	1.00112.41	KS11
ATOM	43903	CA	ARG	K	12	223.585	118.214	-82.442	1.00112.41	KS11
ATOM	43904	CB	ARG	K	12	222.287	117.691	-81.834	1.00156.09	KS11
ATOM	43905	CG	ARG	K	12	222.190	116.209	-81.661	1.00156.09	KS11
ATOM	43906	CD	ARG	K	12	220.784	115.869	-81.237	1.00156.09	KS11
ATOM	43907	NE	ARG	K	12	220.582	114.433	-81.125	1.00156.09	KS11
ATOM	43908	CZ	ARG	K	12	219.407	113.867	-80.881	1.00156.09	KS11
ATOM	43909	NH1	ARG	K	12	218.325	114.619	-80.724	1.00156.09	KS11
ATOM	43910	NH2	ARG	K	12	219.312	112.549	-80.799	1.00156.09	KS11
ATOM	43911	C	ARG	K	12	223.386	119.693	-82.693	1.00112.41	KS11
ATOM	43912	O	ARG	K	12	223.220	120.136	-83.833	1.00112.41	KS11
ATOM	43913	N	GLN	K	13	223.403	120.440	-81.593	1.00136.62	KS11
ATOM	43914	CA	GLN	K	13	223.196	121.880	-81.594	1.00136.62	KS11
ATOM	43915	CB	GLN	K	13	223.905	122.537	-82.783	1.00147.54	KS11
ATOM	43916	CG	GLN	K	13	225.372	122.144	-82.885	1.00147.54	KS11
ATOM	43917	CD	GLN	K	13	226.074	122.167	-81.536	1.00147.54	KS11
ATOM	43918	OE1	GLN	K	13	226.286	123.230	-80.952	1.00147.54	KS11
ATOM	43919	NE2	GLN	K	13	226.428	120.988	-81.030	1.00147.54	KS11
ATOM	43920	C	GLN	K	13	221.692	122.101	-81.654	1.00136.62	KS11
ATOM	43921	O	GLN	K	13	221.044	121.830	-82.669	1.00136.62	KS11
ATOM	43922	N	VAL	K	14	221.140	122.581	-80.545	1.00 93.10	KS11
ATOM	43923	CA	VAL	K	14	219.710	122.811	-80.442	1.00 93.10	KS11
ATOM	43924	CB	VAL	K	14	219.109	121.869	-79.372	1.00 87.67	KS11
ATOM	43925	CG1	VAL	K	14	217.605	122.076	-79.258	1.00 87.67	KS11
ATOM	43926	CG2	VAL	K	14	219.429	120.424	-79.730	1.00 87.67	KS11
ATOM	43927	C	VAL	K	14	219.365	124.259	-80.105	1.00 93.10	KS11
ATOM	43928	O	VAL	K	14	218.650	124.926	-80.856	1.00 93.10	KS11
ATOM	43929	N	ALA	K	15	219.885	124.738	-78.980	1.00146.76	KS11
ATOM	43930	CA	ALA	K	15	219.618	126.096	-78.525	1.00146.76	KS11
ATOM	43931	CB	ALA	K	15	219.792	127.078	-79.667	1.00 52.95	KS11
ATOM	43932	C	ALA	K	15	218.192	126.165	-77.980	1.00146.76	KS11
ATOM	43933	O	ALA	K	15	217.959	125.892	-76.801	1.00146.76	KS11
ATOM	43934	N	SER	K	16	217.240	126.524	-78.838	1.00121.49	KS11
ATOM	43935	CA	SER	K	16	215.835	126.617	-78.444	1.00121.49	KS11
ATOM	43936	CB	SER	K	16	215.010	127.143	-79.615	1.00116.61	KS11
ATOM	43937	OG	SER	K	16	215.158	126.294	-80.743	1.00116.61	KS11
ATOM	43938	C	SER	K	16	215.308	125.242	-78.021	1.00121.49	KS11
ATOM	43939	O	SER	K	16	215.470	124.259	-78.743	1.00121.49	KS11
ATOM	43940	N	GLY	K	17	214.676	125.173	-76.854	1.00113.92	KS11
ATOM	43941	CA	GLY	K	17	214.158	123.901	-76.389	1.00113.92	KS11
ATOM	43942	C	GLY	K	17	213.279	123.977	-75.155	1.00113.92	KS11
ATOM	43943	O	GLY	K	17	212.961	125.061	-74.666	1.00113.92	KS11
ATOM	43944	N	ARG	K	18	212.896	122.806	-74.650	1.00 85.69	KS11
ATOM	43945	CA	ARG	K	18	212.041	122.693	-73.476	1.00 85.69	KS11
ATOM	43946	CB	ARG	K	18	210.822	121.828	-73.808	1.00100.63	KS11
ATOM	43947	CG	ARG	K	18	209.799	122.563	-74.641	1.00100.63	KS11
ATOM	43948	CD	ARG	K	18	209.228	121.722	-75.764	1.00100.63	KS11
ATOM	43949	NE	ARG	K	18	208.346	120.660	-75.297	1.00100.63	KS11

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ATOM	43950	CZ	ARG	K	18	207.513	119.996	-76.094	1.00100.63	KS11
ATOM	43951	NH1	ARG	K	18	207.457	120.298	-77.385	1.00100.63	KS11
ATOM	43952	NH2	ARG	K	18	206.740	119.030	-75.612	1.00100.63	KS11
ATOM	43953	C	ARG	K	18	212.739	122.132	-72.240	1.00 85.69	KS11
ATOM	43954	O	ARG	K	18	213.554	121.205	-72.322	1.00 85.69	KS11
ATOM	43955	N	ALA	K	19	212.403	122.715	-71.092	1.00 93.73	KS11
ATOM	43956	CA	ALA	K	19	212.943	122.301	-69.805	1.00 93.73	KS11
ATOM	43957	CB	ALA	K	19	213.582	123.479	-69.103	1.00 59.30	KS11
ATOM	43958	C	ALA	K	19	211.795	121.765	-68.962	1.00 93.73	KS11
ATOM	43959	O	ALA	K	19	210.876	122.505	-68.599	1.00 93.73	KS11
ATOM	43960	N	TYR	K	20	211.838	120.475	-68.661	1.00 73.13	KS11
ATOM	43961	CA	TYR	K	20	210.796	119.864	-67.855	1.00 73.13	KS11
ATOM	43962	CB	TYR	K	20	210.405	118.498	-68.426	1.00 78.42	KS11
ATOM	43963	CG	TYR	K	20	209.424	118.556	-69.571	1.00 78.42	KS11
ATOM	43964	CD1	TYR	K	20	209.852	118.679	-70.889	1.00 78.42	KS11
ATOM	43965	CE1	TYR	K	20	208.938	118.710	-71.945	1.00 78.42	KS11
ATOM	43966	CD2	TYR	K	20	208.062	118.473	-69.330	1.00 78.42	KS11
ATOM	43967	CE2	TYR	K	20	207.142	118.504	-70.366	1.00 78.42	KS11
ATOM	43968	CZ	TYR	K	20	207.578	118.619	-71.673	1.00 78.42	KS11
ATOM	43969	OH	TYR	K	20	206.634	118.622	-72.686	1.00 78.42	KS11
ATOM	43970	C	TYR	K	20	211.252	119.699	-66.411	1.00 73.13	KS11
ATOM	43971	O	TYR	K	20	212.274	119.062	-66.137	1.00 73.13	KS11
ATOM	43972	N	ILE	K	21	210.500	120.290	-65.489	1.00 82.02	KS11
ATOM	43973	CA	ILE	K	21	210.826	120.169	-64.078	1.00 82.02	KS11
ATOM	43974	CB	ILE	K	21	210.849	121.524	-63.363	1.00 73.24	KS11
ATOM	43975	CG2	ILE	K	21	211.391	121.339	-61.958	1.00 73.24	KS11
ATOM	43976	CG1	ILE	K	21	211.755	122.502	-64.103	1.00 73.24	KS11
ATOM	43977	CD1	ILE	K	21	211.932	123.827	-63.380	1.00 73.24	KS11
ATOM	43978	C	ILE	K	21	209.771	119.303	-63.413	1.00 82.02	KS11
ATOM	43979	O	ILE	K	21	208.617	119.703	-63.271	1.00 82.02	KS11
ATOM	43980	N	HIS	K	22	210.176	118.107	-63.012	1.00 67.16	KS11
ATOM	43981	CA	HIS	K	22	209.274	117.167	-62.362	1.00 67.16	KS11
ATOM	43982	CB	HIS	K	22	209.472	115.778	-62.947	1.00 88.88	KS11
ATOM	43983	CG	HIS	K	22	208.700	114.721	-62.237	1.00 88.88	KS11
ATOM	43984	CD2	HIS	K	22	209.100	113.742	-61.394	1.00 88.88	KS11
ATOM	43985	ND1	HIS	K	22	207.331	114.612	-62.334	1.00 88.88	KS11
ATOM	43986	CE1	HIS	K	22	206.919	113.609	-61.581	1.00 88.88	KS11
ATOM	43987	NE2	HIS	K	22	207.974	113.064	-61.000	1.00 88.88	KS11
ATOM	43988	C	HIS	K	22	209.554	117.124	-60.866	1.00 67.16	KS11
ATOM	43989	O	HIS	K	22	210.282	116.250	-60.383	1.00 67.16	KS11
ATOM	43990	N	ALA	K	23	208.971	118.069	-60.137	1.00 70.80	KS11
ATOM	43991	CA	ALA	K	23	209.174	118.154	-58.698	1.00 70.80	KS11
ATOM	43992	CB	ALA	K	23	209.096	119.603	-58.257	1.00100.88	KS11
ATOM	43993	C	ALA	K	23	208.205	117.314	-57.874	1.00 70.80	KS11
ATOM	43994	O	ALA	K	23	207.008	117.263	-58.144	1.00 70.80	KS11
ATOM	43995	N	SER	K	24	208.744	116.652	-56.863	1.00 73.98	KS11
ATOM	43996	CA	SER	K	24	207.942	115.833	-55.974	1.00 73.98	KS11
ATOM	43997	CB	SER	K	24	208.001	114.365	-56.389	1.00 63.10	KS11
ATOM	43998	OG	SER	K	24	208.961	113.658	-55.621	1.00 63.10	KS11
ATOM	43999	C	SER	K	24	208.552	116.006	-54.589	1.00 73.98	KS11
ATOM	44000	O	SER	K	24	209.696	116.439	-54.459	1.00 73.98	KS11
ATOM	44001	N	TYR	K	25	207.808	115.673	-53.548	1.00 90.08	KS11
ATOM	44002	CA	TYR	K	25	208.360	115.843	-52.224	1.00 90.08	KS11
ATOM	44003	CB	TYR	K	25	207.263	115.687	-51.176	1.00124.84	KS11
ATOM	44004	CG	TYR	K	25	206.328	116.867	-51.170	1.00124.84	KS11
ATOM	44005	CD1	TYR	K	25	205.274	116.955	-52.078	1.00124.84	KS11
ATOM	44006	CE1	TYR	K	25	204.459	118.090	-52.128	1.00124.84	KS11
ATOM	44007	CD2	TYR	K	25	206.546	117.942	-50.305	1.00124.84	KS11
ATOM	44008	CE2	TYR	K	25	205.741	119.079	-50.348	1.00124.84	KS11
ATOM	44009	CZ	TYR	K	25	204.702	119.149	-51.260	1.00124.84	KS11
ATOM	44010	OH	TYR	K	25	203.920	120.281	-51.308	1.00124.84	KS11
ATOM	44011	C	TYR	K	25	209.513	114.898	-51.939	1.00 90.08	KS11
ATOM	44012	O	TYR	K	25	210.184	115.035	-50.912	1.00 90.08	KS11
ATOM	44013	N	ASN	K	26	209.764	113.962	-52.855	1.00 71.56	KS11
ATOM	44014	CA	ASN	K	26	210.836	112.982	-52.666	1.00 71.56	KS11
ATOM	44015	CB	ASN	K	26	210.342	111.587	-53.003	1.00 63.56	KS11
ATOM	44016	CG	ASN	K	26	209.753	110.898	-51.819	1.00 63.56	KS11
ATOM	44017	OD1	ASN	K	26	210.136	111.183	-50.681	1.00 63.56	KS11
ATOM	44018	ND2	ASN	K	26	208.827	109.968	-52.063	1.00 63.56	KS11
ATOM	44019	C	ASN	K	26	212.126	113.208	-53.425	1.00 71.56	KS11
ATOM	44020	O	ASN	K	26	213.151	112.556	-53.143	1.00 71.56	KS11
ATOM	44021	N	ASN	K	27	212.059	114.119	-54.390	1.00 80.71	KS11
ATOM	44022	CA	ASN	K	27	213.194	114.450	-55.237	1.00 80.71	KS11
ATOM	44023	CB	ASN	K	27	213.876	113.171	-55.747	1.00 78.76	KS11
ATOM	44024	CG	ASN	K	27	215.006	113.450	-56.718	1.00 78.76	KS11
ATOM	44025	OD1	ASN	K	27	215.788	114.376	-56.537	1.00 78.76	KS11
ATOM	44026	ND2	ASN	K	27	215.104	112.631	-57.746	1.00 78.76	KS11

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ATOM	44027	C	ASN	K	27	212.715	115.278	-56.419	1.00	80.71	KS11
ATOM	44028	O	ASN	K	27	211.528	115.295	-56.759	1.00	80.71	KS11
ATOM	44029	N	THR	K	28	213.652	115.977	-57.036	1.00	76.37	KS11
ATOM	44030	CA	THR	K	28	213.339	116.803	-58.179	1.00	76.37	KS11
ATOM	44031	CB	THR	K	28	213.667	118.270	-57.894	1.00	90.18	KS11
ATOM	44032	OG1	THR	K	28	212.944	118.702	-56.735	1.00	90.18	KS11
ATOM	44033	CG2	THR	K	28	213.298	119.134	-59.088	1.00	90.18	KS11
ATOM	44034	C	THR	K	28	214.195	116.311	-59.331	1.00	76.37	KS11
ATOM	44035	O	THR	K	28	215.361	115.968	-59.152	1.00	76.37	KS11
ATOM	44036	N	ILE	K	29	213.612	116.232	-60.515	1.00	76.45	KS11
ATOM	44037	CA	ILE	K	29	214.387	115.797	-61.651	1.00	76.45	KS11
ATOM	44038	CB	ILE	K	29	214.119	114.305	-61.999	1.00	64.81	KS11
ATOM	44039	CG2	ILE	K	29	212.978	113.742	-61.188	1.00	64.81	KS11
ATOM	44040	CG1	ILE	K	29	213.813	114.169	-63.474	1.00	64.81	KS11
ATOM	44041	CD1	ILE	K	29	214.151	112.811	-63.980	1.00	64.81	KS11
ATOM	44042	C	ILE	K	29	214.089	116.721	-62.817	1.00	76.45	KS11
ATOM	44043	O	ILE	K	29	212.937	117.040	-63.103	1.00	76.45	KS11
ATOM	44044	N	VAL	K	30	215.153	117.178	-63.460	1.00	79.38	KS11
ATOM	44045	CA	VAL	K	30	215.042	118.087	-64.583	1.00	79.38	KS11
ATOM	44046	CB	VAL	K	30	215.999	119.253	-64.423	1.00	60.27	KS11
ATOM	44047	CG1	VAL	K	30	215.677	120.299	-65.450	1.00	60.27	KS11
ATOM	44048	CG2	VAL	K	30	215.916	119.811	-63.027	1.00	60.27	KS11
ATOM	44049	C	VAL	K	30	215.395	117.385	-65.885	1.00	79.38	KS11
ATOM	44050	O	VAL	K	30	216.429	116.735	-65.984	1.00	79.38	KS11
ATOM	44051	N	THR	K	31	214.550	117.512	-66.891	1.00	61.46	KS11
ATOM	44052	CA	THR	K	31	214.849	116.874	-68.153	1.00	61.46	KS11
ATOM	44053	CB	THR	K	31	213.833	115.789	-68.487	1.00	63.26	KS11
ATOM	44054	OG1	THR	K	31	213.987	114.692	-67.583	1.00	63.26	KS11
ATOM	44055	CG2	THR	K	31	214.038	115.298	-69.897	1.00	63.26	KS11
ATOM	44056	C	THR	K	31	214.784	117.923	-69.230	1.00	61.46	KS11
ATOM	44057	O	THR	K	31	213.705	118.433	-69.527	1.00	61.46	KS11
ATOM	44058	N	ILE	K	32	215.928	118.266	-69.813	1.00	86.69	KS11
ATOM	44059	CA	ILE	K	32	215.936	119.265	-70.878	1.00	86.69	KS11
ATOM	44060	CB	ILE	K	32	217.287	119.992	-70.992	1.00	55.27	KS11
ATOM	44061	CG2	ILE	K	32	217.065	121.345	-71.643	1.00	55.27	KS11
ATOM	44062	CG1	ILE	K	32	217.933	120.172	-69.612	1.00	55.27	KS11
ATOM	44063	CD1	ILE	K	32	217.246	121.182	-68.723	1.00	55.27	KS11
ATOM	44064	C	ILE	K	32	215.699	118.520	-72.180	1.00	86.69	KS11
ATOM	44065	O	ILE	K	32	216.217	117.422	-72.372	1.00	86.69	KS11
ATOM	44066	N	THR	K	33	214.919	119.105	-73.077	1.00	81.51	KS11
ATOM	44067	CA	THR	K	33	214.654	118.436	-74.339	1.00	81.51	KS11
ATOM	44068	CB	THR	K	33	213.306	117.730	-74.316	1.00	96.76	KS11
ATOM	44069	OG1	THR	K	33	213.166	116.962	-75.513	1.00	96.76	KS11
ATOM	44070	CG2	THR	K	33	212.177	118.747	-74.245	1.00	96.76	KS11
ATOM	44071	C	THR	K	33	214.662	119.381	-75.527	1.00	81.51	KS11
ATOM	44072	O	THR	K	33	214.896	120.580	-75.377	1.00	81.51	KS11
ATOM	44073	N	ASP	K	34	214.398	118.825	-76.707	1.00	92.46	KS11
ATOM	44074	CA	ASP	K	34	214.362	119.589	-77.948	1.00	92.46	KS11
ATOM	44075	CB	ASP	K	34	214.680	118.673	-79.122	1.00	92.92	KS11
ATOM	44076	CG	ASP	K	34	213.581	117.663	-79.380	1.00	92.92	KS11
ATOM	44077	OD1	ASP	K	34	212.559	117.675	-78.653	1.00	92.92	KS11
ATOM	44078	OD2	ASP	K	34	213.739	116.853	-80.319	1.00	92.92	KS11
ATOM	44079	C	ASP	K	34	212.989	120.237	-78.172	1.00	92.46	KS11
ATOM	44080	O	ASP	K	34	212.030	119.964	-77.444	1.00	92.46	KS11
ATOM	44081	N	PRO	K	35	212.884	121.108	-79.189	1.00	91.80	KS11
ATOM	44082	CD	PRO	K	35	214.015	121.676	-79.943	1.00	138.75	KS11
ATOM	44083	CA	PRO	K	35	211.650	121.809	-79.538	1.00	91.80	KS11
ATOM	44084	CB	PRO	K	35	212.042	122.568	-80.795	1.00	138.75	KS11
ATOM	44085	CG	PRO	K	35	213.432	122.970	-80.478	1.00	138.75	KS11
ATOM	44086	C	PRO	K	35	210.416	120.936	-79.740	1.00	91.80	KS11
ATOM	44087	O	PRO	K	35	209.317	121.455	-79.937	1.00	91.80	KS11
ATOM	44088	N	ASP	K	36	210.573	119.619	-79.713	1.00	90.76	KS11
ATOM	44089	CA	ASP	K	36	209.396	118.779	-79.863	1.00	90.76	KS11
ATOM	44090	CB	ASP	K	36	209.071	118.526	-81.348	1.00	134.01	KS11
ATOM	44091	CG	ASP	K	36	210.262	118.057	-82.147	1.00	134.01	KS11
ATOM	44092	OD1	ASP	K	36	210.128	117.926	-83.385	1.00	134.01	KS11
ATOM	44093	OD2	ASP	K	36	211.328	117.819	-81.543	1.00	134.01	KS11
ATOM	44094	C	ASP	K	36	209.385	117.475	-79.071	1.00	90.76	KS11
ATOM	44095	O	ASP	K	36	208.865	116.460	-79.538	1.00	90.76	KS11
ATOM	44096	N	GLY	K	37	209.966	117.507	-77.871	1.00	83.65	KS11
ATOM	44097	CA	GLY	K	37	209.913	116.339	-77.012	1.00	83.65	KS11
ATOM	44098	C	GLY	K	37	211.109	115.492	-76.634	1.00	83.65	KS11
ATOM	44099	O	GLY	K	37	211.411	115.353	-75.452	1.00	83.65	KS11
ATOM	44100	N	ASN	K	38	211.778	114.904	-77.618	1.00	87.56	KS11
ATOM	44101	CA	ASN	K	38	212.908	114.021	-77.349	1.00	87.56	KS11
ATOM	44102	CB	ASN	K	38	213.496	113.548	-78.673	1.00	91.54	KS11
ATOM	44103	CG	ASN	K	38	212.412	113.185	-79.675	1.00	91.54	KS11

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ATOM	44104	OD1	ASN	K	38	212.011	114.010	-80.495	1.00	91.54	KS11
ATOM	44105	ND2	ASN	K	38	211.906	111.959	-79.589	1.00	91.54	KS11
ATOM	44106	C	ASN	K	38	213.982	114.609	-76.441	1.00	87.56	KS11
ATOM	44107	O	ASN	K	38	214.726	115.512	-76.820	1.00	87.56	KS11
ATOM	44108	N	PRO	K	39	214.066	114.087	-75.211	1.00	62.27	KS11
ATOM	44109	CD	PRO	K	39	213.327	112.900	-74.737	1.00	49.00	KS11
ATOM	44110	CA	PRO	K	39	215.031	114.529	-74.204	1.00	62.27	KS11
ATOM	44111	CB	PRO	K	39	214.857	113.505	-73.073	1.00	49.00	KS11
ATOM	44112	CG	PRO	K	39	214.304	112.295	-73.757	1.00	49.00	KS11
ATOM	44113	C	PRO	K	39	216.465	114.607	-74.684	1.00	62.27	KS11
ATOM	44114	O	PRO	K	39	216.939	113.741	-75.410	1.00	62.27	KS11
ATOM	44115	N	ILE	K	40	217.151	115.658	-74.264	1.00	79.67	KS11
ATOM	44116	CA	ILE	K	40	218.545	115.854	-74.617	1.00	79.67	KS11
ATOM	44117	CB	ILE	K	40	218.825	117.319	-74.850	1.00	85.39	KS11
ATOM	44118	CG2	ILE	K	40	220.301	117.598	-74.712	1.00	85.39	KS11
ATOM	44119	CG1	ILE	K	40	218.273	117.705	-76.216	1.00	85.39	KS11
ATOM	44120	CD1	ILE	K	40	218.246	119.195	-76.459	1.00	85.39	KS11
ATOM	44121	C	ILE	K	40	219.403	115.356	-73.471	1.00	79.67	KS11
ATOM	44122	O	ILE	K	40	220.212	114.450	-73.652	1.00	79.67	KS11
ATOM	44123	N	THR	K	41	219.217	115.957	-72.296	1.00	88.06	KS11
ATOM	44124	CA	THR	K	41	219.947	115.584	-71.080	1.00	88.06	KS11
ATOM	44125	CB	THR	K	41	221.180	116.482	-70.834	1.00	96.77	KS11
ATOM	44126	OG1	THR	K	41	220.753	117.816	-70.524	1.00	96.77	KS11
ATOM	44127	CG2	THR	K	41	222.075	116.507	-72.060	1.00	96.77	KS11
ATOM	44128	C	THR	K	41	219.039	115.725	-69.864	1.00	88.06	KS11
ATOM	44129	O	THR	K	41	218.159	116.583	-69.827	1.00	88.06	KS11
ATOM	44130	N	TRP	K	42	219.258	114.886	-68.864	1.00	70.71	KS11
ATOM	44131	CA	TRP	K	42	218.448	114.949	-67.664	1.00	70.71	KS11
ATOM	44132	CB	TRP	K	42	217.477	113.769	-67.597	1.00	75.18	KS11
ATOM	44133	CG	TRP	K	42	218.149	112.421	-67.399	1.00	75.18	KS11
ATOM	44134	CD2	TRP	K	42	218.296	111.699	-66.166	1.00	75.18	KS11
ATOM	44135	CE2	TRP	K	42	218.971	110.489	-66.465	1.00	75.18	KS11
ATOM	44136	CE3	TRP	K	42	217.923	111.953	-64.841	1.00	75.18	KS11
ATOM	44137	CD1	TRP	K	42	218.730	111.641	-68.366	1.00	75.18	KS11
ATOM	44138	NE1	TRP	K	42	219.223	110.480	-67.812	1.00	75.18	KS11
ATOM	44139	CZ2	TRP	K	42	219.278	109.535	-65.485	1.00	75.18	KS11
ATOM	44140	CZ3	TRP	K	42	218.229	111.001	-63.866	1.00	75.18	KS11
ATOM	44141	CH2	TRP	K	42	218.900	109.806	-64.197	1.00	75.18	KS11
ATOM	44142	C	TRP	K	42	219.327	114.909	-66.434	1.00	70.71	KS11
ATOM	44143	O	TRP	K	42	220.404	114.309	-66.447	1.00	70.71	KS11
ATOM	44144	N	SER	K	43	218.850	115.546	-65.369	1.00	76.40	KS11
ATOM	44145	CA	SER	K	43	219.541	115.576	-64.090	1.00	76.40	KS11
ATOM	44146	CB	SER	K	43	220.134	116.959	-63.848	1.00	92.62	KS11
ATOM	44147	OG	SER	K	43	220.936	116.955	-62.683	1.00	92.62	KS11
ATOM	44148	C	SER	K	43	218.513	115.246	-63.003	1.00	76.40	KS11
ATOM	44149	O	SER	K	43	217.318	115.142	-63.282	1.00	76.40	KS11
ATOM	44150	N	SER	K	44	218.969	115.069	-61.769	1.00	58.82	KS11
ATOM	44151	CA	SER	K	44	218.063	114.763	-60.666	1.00	58.82	KS11
ATOM	44152	CB	SER	K	44	217.562	113.319	-60.746	1.00	65.14	KS11
ATOM	44153	OG	SER	K	44	218.562	112.409	-60.306	1.00	65.14	KS11
ATOM	44154	C	SER	K	44	218.819	114.943	-59.369	1.00	58.82	KS11
ATOM	44155	O	SER	K	44	219.922	115.469	-59.362	1.00	58.82	KS11
ATOM	44156	N	GLY	K	45	218.225	114.501	-58.267	1.00	66.26	KS11
ATOM	44157	CA	GLY	K	45	218.889	114.633	-56.988	1.00	66.26	KS11
ATOM	44158	C	GLY	K	45	219.959	113.573	-56.933	1.00	66.26	KS11
ATOM	44159	O	GLY	K	45	221.068	113.813	-56.468	1.00	66.26	KS11
ATOM	44160	N	GLY	K	46	219.612	112.391	-57.425	1.00	89.08	KS11
ATOM	44161	CA	GLY	K	46	220.554	111.292	-57.435	1.00	89.08	KS11
ATOM	44162	C	GLY	K	46	221.684	111.568	-58.403	1.00	89.08	KS11
ATOM	44163	O	GLY	K	46	222.838	111.266	-58.113	1.00	89.08	KS11
ATOM	44164	N	VAL	K	47	221.350	112.129	-59.562	1.00	90.00	KS11
ATOM	44165	CA	VAL	K	47	222.357	112.455	-60.557	1.00	90.00	KS11
ATOM	44166	CB	VAL	K	47	221.827	113.494	-61.553	1.00	113.16	KS11
ATOM	44167	CG1	VAL	K	47	222.970	114.106	-62.327	1.00	113.16	KS11
ATOM	44168	CG2	VAL	K	47	220.844	112.832	-62.508	1.00	113.16	KS11
ATOM	44169	C	VAL	K	47	223.540	113.016	-59.792	1.00	90.00	KS11
ATOM	44170	O	VAL	K	47	224.663	112.563	-59.967	1.00	90.00	KS11
ATOM	44171	N	ILE	K	48	223.281	113.989	-58.926	1.00	87.19	KS11
ATOM	44172	CA	ILE	K	48	224.341	114.566	-58.108	1.00	87.19	KS11
ATOM	44173	CB	ILE	K	48	224.053	115.996	-57.718	1.00	52.07	KS11
ATOM	44174	CG2	ILE	K	48	225.351	116.655	-57.274	1.00	52.07	KS11
ATOM	44175	CG1	ILE	K	48	223.409	116.733	-58.888	1.00	52.07	KS11
ATOM	44176	CD1	ILE	K	48	222.546	117.890	-58.442	1.00	52.07	KS11
ATOM	44177	C	ILE	K	48	224.398	113.781	-56.811	1.00	87.19	KS11
ATOM	44178	O	ILE	K	48	223.415	113.152	-56.427	1.00	87.19	KS11
ATOM	44179	N	GLY	K	49	225.536	113.843	-56.128	1.00	85.81	KS11
ATOM	44180	CA	GLY	K	49	225.714	113.121	-54.872	1.00	85.81	KS11

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ATOM	44181	C	GLY	K	49	224.458	112.658	-54.148	1.00	85.81	KS11
ATOM	44182	O	GLY	K	49	224.027	111.516	-54.310	1.00	85.81	KS11
ATOM	44183	N	TYR	K	50	223.887	113.555	-53.345	1.00	86.26	KS11
ATOM	44184	CA	TYR	K	50	222.677	113.313	-52.552	1.00	86.26	KS11
ATOM	44185	CB	TYR	K	50	221.692	114.452	-52.809	1.00	83.25	KS11
ATOM	44186	CG	TYR	K	50	222.271	115.792	-52.401	1.00	83.25	KS11
ATOM	44187	CD1	TYR	K	50	221.759	116.981	-52.904	1.00	83.25	KS11
ATOM	44188	CE1	TYR	K	50	222.323	118.207	-52.556	1.00	83.25	KS11
ATOM	44189	CD2	TYR	K	50	223.364	115.862	-51.528	1.00	83.25	KS11
ATOM	44190	CE2	TYR	K	50	223.934	117.076	-51.174	1.00	83.25	KS11
ATOM	44191	CZ	TYR	K	50	223.413	118.246	-51.693	1.00	83.25	KS11
ATOM	44192	OH	TYR	K	50	223.996	119.453	-51.370	1.00	83.25	KS11
ATOM	44193	C	TYR	K	50	222.034	111.963	-52.792	1.00	86.26	KS11
ATOM	44194	O	TYR	K	50	221.570	111.678	-53.897	1.00	86.26	KS11
ATOM	44195	N	LYS	K	51	221.997	111.138	-51.746	1.00	99.38	KS11
ATOM	44196	CA	LYS	K	51	221.458	109.796	-51.880	1.00	99.38	KS11
ATOM	44197	CB	LYS	K	51	222.449	108.782	-51.311	1.00	99.63	KS11
ATOM	44198	CG	LYS	K	51	223.353	108.168	-52.371	1.00	99.63	KS11
ATOM	44199	CD	LYS	K	51	223.753	106.737	-52.016	1.00	99.63	KS11
ATOM	44200	CE	LYS	K	51	222.543	105.797	-51.995	1.00	99.63	KS11
ATOM	44201	NZ	LYS	K	51	222.899	104.383	-51.650	1.00	99.63	KS11
ATOM	44202	C	LYS	K	51	220.066	109.429	-51.381	1.00	99.38	KS11
ATOM	44203	O	LYS	K	51	219.425	108.546	-51.962	1.00	99.38	KS11
ATOM	44204	N	GLY	K	52	219.571	110.061	-50.326	1.00	70.52	KS11
ATOM	44205	CA	GLY	K	52	218.250	109.651	-49.875	1.00	70.52	KS11
ATOM	44206	C	GLY	K	52	217.265	110.752	-49.588	1.00	70.52	KS11
ATOM	44207	O	GLY	K	52	216.548	111.248	-50.472	1.00	70.52	KS11
ATOM	44208	N	SER	K	53	217.207	111.103	-48.315	1.00	80.79	KS11
ATOM	44209	CA	SER	K	53	216.332	112.167	-47.897	1.00	80.79	KS11
ATOM	44210	CB	SER	K	53	216.374	112.287	-46.375	1.00	117.21	KS11
ATOM	44211	OG	SER	K	53	215.392	113.195	-45.911	1.00	117.21	KS11
ATOM	44212	C	SER	K	53	216.837	113.460	-48.570	1.00	80.79	KS11
ATOM	44213	O	SER	K	53	216.068	114.184	-49.207	1.00	80.79	KS11
ATOM	44214	N	ARG	K	54	218.142	113.715	-48.442	1.00	77.46	KS11
ATOM	44215	CA	ARG	K	54	218.792	114.904	-49.000	1.00	77.46	KS11
ATOM	44216	CB	ARG	K	54	220.320	114.743	-49.007	1.00	137.08	KS11
ATOM	44217	CG	ARG	K	54	220.915	113.950	-47.846	1.00	137.08	KS11
ATOM	44218	CD	ARG	K	54	221.024	114.772	-46.574	1.00	137.08	KS11
ATOM	44219	NE	ARG	K	54	222.381	115.259	-46.319	1.00	137.08	KS11
ATOM	44220	CZ	ARG	K	54	223.052	116.087	-47.114	1.00	137.08	KS11
ATOM	44221	NH1	ARG	K	54	222.501	116.532	-48.234	1.00	137.08	KS11
ATOM	44222	NH2	ARG	K	54	224.274	116.482	-46.779	1.00	137.08	KS11
ATOM	44223	C	ARG	K	54	218.346	115.134	-50.433	1.00	77.46	KS11
ATOM	44224	O	ARG	K	54	218.268	116.271	-50.894	1.00	77.46	KS11
ATOM	44225	N	LYS	K	55	218.051	114.042	-51.133	1.00	67.89	KS11
ATOM	44226	CA	LYS	K	55	217.662	114.108	-52.537	1.00	67.89	KS11
ATOM	44227	CB	LYS	K	55	217.223	112.717	-53.008	1.00	63.13	KS11
ATOM	44228	CG	LYS	K	55	217.564	112.404	-54.474	1.00	63.13	KS11
ATOM	44229	CD	LYS	K	55	217.069	111.012	-54.890	1.00	63.13	KS11
ATOM	44230	CE	LYS	K	55	217.615	109.927	-53.953	1.00	63.13	KS11
ATOM	44231	NZ	LYS	K	55	217.129	108.547	-54.261	1.00	63.13	KS11
ATOM	44232	C	LYS	K	55	216.578	115.144	-52.846	1.00	67.89	KS11
ATOM	44233	O	LYS	K	55	216.753	115.994	-53.720	1.00	67.89	KS11
ATOM	44234	N	GLY	K	56	215.462	115.079	-52.128	1.00	88.56	KS11
ATOM	44235	CA	GLY	K	56	214.377	116.019	-52.362	1.00	88.56	KS11
ATOM	44236	C	GLY	K	56	214.731	117.496	-52.263	1.00	88.56	KS11
ATOM	44237	O	GLY	K	56	214.436	118.267	-53.179	1.00	88.56	KS11
ATOM	44238	N	THR	K	57	215.352	117.881	-51.149	1.00	79.03	KS11
ATOM	44239	CA	THR	K	57	215.760	119.259	-50.876	1.00	79.03	KS11
ATOM	44240	CB	THR	K	57	217.176	119.322	-50.278	1.00	73.46	KS11
ATOM	44241	OG1	THR	K	57	217.473	120.676	-49.913	1.00	73.46	KS11
ATOM	44242	CG2	THR	K	57	218.210	118.890	-51.305	1.00	73.46	KS11
ATOM	44243	C	THR	K	57	215.770	120.228	-52.052	1.00	79.03	KS11
ATOM	44244	O	THR	K	57	216.117	119.863	-53.176	1.00	79.03	KS11
ATOM	44245	N	PRO	K	58	215.407	121.492	-51.798	1.00	89.72	KS11
ATOM	44246	CD	PRO	K	58	214.981	122.068	-50.514	1.00	69.52	KS11
ATOM	44247	CA	PRO	K	58	215.390	122.514	-52.844	1.00	89.72	KS11
ATOM	44248	CB	PRO	K	58	214.723	123.696	-52.154	1.00	69.52	KS11
ATOM	44249	CG	PRO	K	58	215.209	123.549	-50.749	1.00	69.52	KS11
ATOM	44250	C	PRO	K	58	216.821	122.837	-53.283	1.00	89.72	KS11
ATOM	44251	O	PRO	K	58	217.045	123.355	-54.384	1.00	89.72	KS11
ATOM	44252	N	TYR	K	59	217.793	122.537	-52.423	1.00	91.80	KS11
ATOM	44253	CA	TYR	K	59	219.179	122.805	-52.781	1.00	91.80	KS11
ATOM	44254	CB	TYR	K	59	220.128	122.554	-51.610	1.00	94.24	KS11
ATOM	44255	CG	TYR	K	59	221.558	122.851	-51.985	1.00	94.24	KS11
ATOM	44256	CD1	TYR	K	59	221.904	124.076	-52.560	1.00	94.24	KS11
ATOM	44257	CE1	TYR	K	59	223.209	124.341	-52.959	1.00	94.24	KS11

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ATOM	44258	CD2	TYR	K	59	222.558	121.896	-51.811	1.00	94.24	KS11
ATOM	44259	CE2	TYR	K	59	223.874	122.149	-52.206	1.00	94.24	KS11
ATOM	44260	CZ	TYR	K	59	224.194	123.372	-52.782	1.00	94.24	KS11
ATOM	44261	OH	TYR	K	59	225.490	123.615	-53.198	1.00	94.24	KS11
ATOM	44262	C	TYR	K	59	219.554	121.902	-53.940	1.00	91.80	KS11
ATOM	44263	O	TYR	K	59	220.165	122.343	-54.913	1.00	91.80	KS11
ATOM	44264	N	ALA	K	60	219.180	120.633	-53.825	1.00	78.98	KS11
ATOM	44265	CA	ALA	K	60	219.454	119.682	-54.884	1.00	78.98	KS11
ATOM	44266	CB	ALA	K	60	219.040	118.293	-54.461	1.00	46.36	KS11
ATOM	44267	C	ALA	K	60	218.654	120.124	-56.102	1.00	78.98	KS11
ATOM	44268	O	ALA	K	60	219.153	120.117	-57.228	1.00	78.98	KS11
ATOM	44269	N	ALA	K	61	217.408	120.519	-55.873	1.00	78.76	KS11
ATOM	44270	CA	ALA	K	61	216.569	120.975	-56.967	1.00	78.76	KS11
ATOM	44271	CB	ALA	K	61	215.276	121.563	-56.426	1.00	70.27	KS11
ATOM	44272	C	ALA	K	61	217.337	122.022	-57.776	1.00	78.76	KS11
ATOM	44273	O	ALA	K	61	217.048	122.259	-58.948	1.00	78.76	KS11
ATOM	44274	N	GLN	K	62	218.325	122.649	-57.150	1.00	86.09	KS11
ATOM	44275	CA	GLN	K	62	219.111	123.645	-57.853	1.00	86.09	KS11
ATOM	44276	CB	GLN	K	62	219.663	124.670	-56.876	1.00	78.89	KS11
ATOM	44277	CG	GLN	K	62	220.517	125.719	-57.533	1.00	78.89	KS11
ATOM	44278	CD	GLN	K	62	220.867	126.837	-56.581	1.00	78.89	KS11
ATOM	44279	OE1	GLN	K	62	221.496	126.615	-55.542	1.00	78.89	KS11
ATOM	44280	NE2	GLN	K	62	220.456	128.055	-56.925	1.00	78.89	KS11
ATOM	44281	C	GLN	K	62	220.254	122.971	-58.595	1.00	86.09	KS11
ATOM	44282	O	GLN	K	62	220.327	123.019	-59.826	1.00	86.09	KS11
ATOM	44283	N	LEU	K	63	221.144	122.333	-57.844	1.00	67.89	KS11
ATOM	44284	CA	LEU	K	63	222.275	121.652	-58.445	1.00	67.89	KS11
ATOM	44285	CB	LEU	K	63	222.994	120.790	-57.408	1.00	61.33	KS11
ATOM	44286	CG	LEU	K	63	223.635	121.518	-56.222	1.00	61.33	KS11
ATOM	44287	CD1	LEU	K	63	224.708	120.624	-55.585	1.00	61.33	KS11
ATOM	44288	CD2	LEU	K	63	224.250	122.843	-56.699	1.00	61.33	KS11
ATOM	44289	C	LEU	K	63	221.815	120.784	-59.605	1.00	67.89	KS11
ATOM	44290	O	LEU	K	63	222.553	120.556	-60.565	1.00	67.89	KS11
ATOM	44291	N	ALA	K	64	220.586	120.299	-59.522	1.00	71.43	KS11
ATOM	44292	CA	ALA	K	64	220.064	119.468	-60.590	1.00	71.43	KS11
ATOM	44293	CB	ALA	K	64	218.824	118.727	-60.118	1.00	74.53	KS11
ATOM	44294	C	ALA	K	64	219.746	120.333	-61.807	1.00	71.43	KS11
ATOM	44295	O	ALA	K	64	220.204	120.049	-62.913	1.00	71.43	KS11
ATOM	44296	N	ALA	K	65	218.972	121.396	-61.599	1.00	88.40	KS11
ATOM	44297	CA	ALA	K	65	218.605	122.290	-62.693	1.00	88.40	KS11
ATOM	44298	CB	ALA	K	65	217.880	123.518	-62.163	1.00	56.79	KS11
ATOM	44299	C	ALA	K	65	219.859	122.719	-63.414	1.00	88.40	KS11
ATOM	44300	O	ALA	K	65	219.974	122.566	-64.631	1.00	88.40	KS11
ATOM	44301	N	LEU	K	66	220.803	123.253	-62.647	1.00	86.57	KS11
ATOM	44302	CA	LEU	K	66	222.060	123.726	-63.205	1.00	86.57	KS11
ATOM	44303	CB	LEU	K	66	222.990	124.196	-62.086	1.00	66.42	KS11
ATOM	44304	CG	LEU	K	66	222.438	125.363	-61.264	1.00	66.42	KS11
ATOM	44305	CD1	LEU	K	66	223.426	125.686	-60.167	1.00	66.42	KS11
ATOM	44306	CD2	LEU	K	66	222.182	126.584	-62.152	1.00	66.42	KS11
ATOM	44307	C	LEU	K	66	222.741	122.653	-64.037	1.00	86.57	KS11
ATOM	44308	O	LEU	K	66	223.044	122.882	-65.205	1.00	86.57	KS11
ATOM	44309	N	ASP	K	67	222.977	121.487	-63.441	1.00	80.62	KS11
ATOM	44310	CA	ASP	K	67	223.621	120.392	-64.158	1.00	80.62	KS11
ATOM	44311	CB	ASP	K	67	223.599	119.109	-63.327	1.00	112.42	KS11
ATOM	44312	CG	ASP	K	67	224.303	117.955	-64.024	1.00	112.42	KS11
ATOM	44313	OD1	ASP	K	67	223.999	116.786	-63.711	1.00	112.42	KS11
ATOM	44314	OD2	ASP	K	67	225.170	118.221	-64.880	1.00	112.42	KS11
ATOM	44315	C	ASP	K	67	222.869	120.149	-65.459	1.00	80.62	KS11
ATOM	44316	O	ASP	K	67	223.456	120.104	-66.539	1.00	80.62	KS11
ATOM	44317	N	ALA	K	68	221.559	119.988	-65.346	1.00	74.61	KS11
ATOM	44318	CA	ALA	K	68	220.743	119.759	-66.518	1.00	74.61	KS11
ATOM	44319	CB	ALA	K	68	219.271	119.849	-66.154	1.00	138.23	KS11
ATOM	44320	C	ALA	K	68	221.101	120.806	-67.570	1.00	74.61	KS11
ATOM	44321	O	ALA	K	68	221.366	120.469	-68.722	1.00	74.61	KS11
ATOM	44322	N	ALA	K	69	221.122	122.072	-67.172	1.00	84.43	KS11
ATOM	44323	CA	ALA	K	69	221.445	123.136	-68.109	1.00	84.43	KS11
ATOM	44324	CB	ALA	K	69	221.206	124.490	-67.471	1.00	55.33	KS11
ATOM	44325	C	ALA	K	69	222.886	123.030	-68.604	1.00	84.43	KS11
ATOM	44326	O	ALA	K	69	223.124	123.053	-69.814	1.00	84.43	KS11
ATOM	44327	N	LYS	K	70	223.842	122.921	-67.680	1.00	76.02	KS11
ATOM	44328	CA	LYS	K	70	225.248	122.797	-68.055	1.00	76.02	KS11
ATOM	44329	CB	LYS	K	70	226.103	122.418	-66.847	1.00	151.76	KS11
ATOM	44330	CG	LYS	K	70	226.129	123.493	-65.777	1.00	151.76	KS11
ATOM	44331	CD	LYS	K	70	226.963	123.089	-64.573	1.00	151.76	KS11
ATOM	44332	CE	LYS	K	70	226.890	124.151	-63.485	1.00	151.76	KS11
ATOM	44333	NZ	LYS	K	70	227.648	123.755	-62.270	1.00	151.76	KS11
ATOM	44334	C	LYS	K	70	225.321	121.713	-69.114	1.00	76.02	KS11

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ATOM	44335	O	LYS	K	70	225.692	121.983	-70.252	1.00	76.02	KS11
ATOM	44336	N	LYS	K	71	224.939	120.491	-68.755	1.00	80.15	KS11
ATOM	44337	CA	LYS	K	71	224.948	119.390	-69.718	1.00	80.15	KS11
ATOM	44338	CB	LYS	K	71	224.232	118.167	-69.142	1.00	71.14	KS11
ATOM	44339	CG	LYS	K	71	224.962	117.455	-68.015	1.00	71.14	KS11
ATOM	44340	CD	LYS	K	71	224.214	116.172	-67.626	1.00	71.14	KS11
ATOM	44341	CE	LYS	K	71	224.878	115.429	-66.468	1.00	71.14	KS11
ATOM	44342	NZ	LYS	K	71	224.155	114.165	-66.117	1.00	71.14	KS11
ATOM	44343	C	LYS	K	71	224.256	119.806	-71.023	1.00	80.15	KS11
ATOM	44344	O	LYS	K	71	224.675	119.418	-72.110	1.00	80.15	KS11
ATOM	44345	N	ALA	K	72	223.199	120.601	-70.903	1.00	65.32	KS11
ATOM	44346	CA	ALA	K	72	222.437	121.059	-72.051	1.00	65.32	KS11
ATOM	44347	CB	ALA	K	72	221.085	121.582	-71.599	1.00	99.52	KS11
ATOM	44348	C	ALA	K	72	223.174	122.134	-72.820	1.00	65.32	KS11
ATOM	44349	O	ALA	K	72	222.955	122.300	-74.019	1.00	65.32	KS11
ATOM	44350	N	MET	K	73	224.034	122.878	-72.135	1.00	96.78	KS11
ATOM	44351	CA	MET	K	73	224.810	123.934	-72.783	1.00	96.78	KS11
ATOM	44352	CB	MET	K	73	225.637	124.702	-71.749	1.00	137.66	KS11
ATOM	44353	CG	MET	K	73	224.836	125.279	-70.593	1.00	137.66	KS11
ATOM	44354	SD	MET	K	73	223.934	126.771	-71.011	1.00	137.66	KS11
ATOM	44355	CE	MET	K	73	224.847	128.007	-70.057	1.00	137.66	KS11
ATOM	44356	C	MET	K	73	225.753	123.294	-73.811	1.00	96.78	KS11
ATOM	44357	O	MET	K	73	226.138	123.928	-74.795	1.00	96.78	KS11
ATOM	44358	N	ALA	K	74	226.117	122.035	-73.571	1.00	123.68	KS11
ATOM	44359	CA	ALA	K	74	227.007	121.294	-74.463	1.00	123.68	KS11
ATOM	44360	CB	ALA	K	74	227.356	119.947	-73.856	1.00	85.48	KS11
ATOM	44361	C	ALA	K	74	226.367	121.099	-75.833	1.00	123.68	KS11
ATOM	44362	O	ALA	K	74	227.037	121.207	-76.858	1.00	123.68	KS11
ATOM	44363	N	TYR	K	75	225.074	120.791	-75.852	1.00	98.97	KS11
ATOM	44364	CA	TYR	K	75	224.367	120.622	-77.115	1.00	98.97	KS11
ATOM	44365	CB	TYR	K	75	223.027	119.921	-76.903	1.00	123.28	KS11
ATOM	44366	CG	TYR	K	75	223.100	118.429	-76.681	1.00	123.28	KS11
ATOM	44367	CD1	TYR	K	75	223.901	117.886	-75.676	1.00	123.28	KS11
ATOM	44368	CE1	TYR	K	75	223.911	116.508	-75.428	1.00	123.28	KS11
ATOM	44369	CD2	TYR	K	75	222.311	117.559	-77.441	1.00	123.28	KS11
ATOM	44370	CE2	TYR	K	75	222.312	116.185	-77.203	1.00	123.28	KS11
ATOM	44371	CZ	TYR	K	75	223.112	115.664	-76.194	1.00	123.28	KS11
ATOM	44372	OH	TYR	K	75	223.109	114.305	-75.952	1.00	123.28	KS11
ATOM	44373	C	TYR	K	75	224.111	122.011	-77.700	1.00	98.97	KS11
ATOM	44374	O	TYR	K	75	223.395	122.153	-78.694	1.00	98.97	KS11
ATOM	44375	N	GLY	K	76	224.683	123.029	-77.057	1.00	95.30	KS11
ATOM	44376	CA	GLY	K	76	224.521	124.399	-77.511	1.00	95.30	KS11
ATOM	44377	C	GLY	K	76	223.158	125.016	-77.235	1.00	95.30	KS11
ATOM	44378	O	GLY	K	76	222.657	125.802	-78.041	1.00	95.30	KS11
ATOM	44379	N	MET	K	77	222.552	124.670	-76.103	1.00	98.90	KS11
ATOM	44380	CA	MET	K	77	221.246	125.217	-75.755	1.00	98.90	KS11
ATOM	44381	CB	MET	K	77	220.684	124.526	-74.500	1.00	118.66	KS11
ATOM	44382	CG	MET	K	77	219.974	123.173	-74.723	1.00	118.66	KS11
ATOM	44383	SD	MET	K	77	218.295	123.238	-75.454	1.00	118.66	KS11
ATOM	44384	CE	MET	K	77	217.311	123.615	-74.052	1.00	118.66	KS11
ATOM	44385	C	MET	K	77	221.346	126.720	-75.505	1.00	98.90	KS11
ATOM	44386	O	MET	K	77	222.435	127.291	-75.517	1.00	98.90	KS11
ATOM	44387	N	GLN	K	78	220.191	127.341	-75.281	1.00	108.41	KS11
ATOM	44388	CA	GLN	K	78	220.075	128.771	-75.003	1.00	108.41	KS11
ATOM	44389	CB	GLN	K	78	220.408	129.590	-76.245	1.00	137.06	KS11
ATOM	44390	CG	GLN	K	78	221.883	129.738	-76.513	1.00	137.06	KS11
ATOM	44391	CD	GLN	K	78	222.147	130.393	-77.842	1.00	137.06	KS11
ATOM	44392	OE1	GLN	K	78	221.637	131.480	-78.122	1.00	137.06	KS11
ATOM	44393	NE2	GLN	K	78	222.947	129.738	-78.678	1.00	137.06	KS11
ATOM	44394	C	GLN	K	78	218.643	129.075	-74.566	1.00	108.41	KS11
ATOM	44395	O	GLN	K	78	218.339	129.104	-73.372	1.00	108.41	KS11
ATOM	44396	N	SER	K	79	217.770	129.294	-75.548	1.00	93.76	KS11
ATOM	44397	CA	SER	K	79	216.360	129.587	-75.304	1.00	93.76	KS11
ATOM	44398	CB	SER	K	79	215.698	130.066	-76.601	1.00	135.87	KS11
ATOM	44399	OG	SER	K	79	214.298	130.227	-76.443	1.00	135.87	KS11
ATOM	44400	C	SER	K	79	215.658	128.331	-74.802	1.00	93.76	KS11
ATOM	44401	O	SER	K	79	215.722	127.281	-75.440	1.00	93.76	KS11
ATOM	44402	N	VAL	K	80	214.987	128.436	-73.658	1.00	92.61	KS11
ATOM	44403	CA	VAL	K	80	214.283	127.288	-73.095	1.00	92.61	KS11
ATOM	44404	CB	VAL	K	80	215.097	126.629	-71.962	1.00	86.19	KS11
ATOM	44405	CG1	VAL	K	80	214.462	125.312	-71.565	1.00	86.19	KS11
ATOM	44406	CG2	VAL	K	80	216.529	126.417	-72.406	1.00	86.19	KS11
ATOM	44407	C	VAL	K	80	212.923	127.665	-72.524	1.00	92.61	KS11
ATOM	44408	O	VAL	K	80	212.747	128.769	-72.002	1.00	92.61	KS11
ATOM	44409	N	ASP	K	81	211.976	126.732	-72.631	1.00	87.01	KS11
ATOM	44410	CA	ASP	K	81	210.614	126.897	-72.118	1.00	87.01	KS11
ATOM	44411	CB	ASP	K	81	209.593	126.564	-73.199	1.00	136.75	KS11

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2	CG	ASP	K	81	209.811	127.357	-74.458	1.00136.75	KS11
3	OD1	ASP	K	81	210.896	127.222	-75.066	1.00136.75	KS11
4	OD2	ASP	K	81	208.899	128.116	-74.838	1.00136.75	KS11
5	C	ASP	K	81	210.445	125.924	-70.959	1.00 87.01	KS11
6	O	ASP	K	81	210.479	124.711	-71.161	1.00 87.01	KS11
7	N	VAL	K	82	210.260	126.451	-69.750	1.00 79.54	KS11
8	CA	VAL	K	82	210.115	125.611	-68.568	1.00 79.54	KS11
9	CB	VAL	K	82	210.572	126.358	-67.313	1.00 95.93	KS11
0	CG1	VAL	K	82	210.596	125.412	-66.125	1.00 95.93	KS11
1	CG2	VAL	K	82	211.942	126.950	-67.548	1.00 95.93	KS11
2	C	VAL	K	82	208.698	125.097	-68.342	1.00 79.54	KS11
3	O	VAL	K	82	207.729	125.855	-68.390	1.00 79.54	KS11
4	N	ILE	K	83	208.596	123.797	-68.084	1.00 89.49	KS11
5	CA	ILE	K	83	207.314	123.142	-67.847	1.00 89.49	KS11
6	CB	ILE	K	83	207.031	122.118	-68.946	1.00 63.49	KS11
7	CG2	ILE	K	83	205.754	121.357	-68.641	1.00 63.49	KS11
8	CG1	ILE	K	83	206.946	122.832	-70.288	1.00 63.49	KS11
9	CD1	ILE	K	83	206.687	121.900	-71.455	1.00 63.49	KS11
0	C	ILE	K	83	207.304	122.424	-66.500	1.00 89.49	KS11
1	O	ILE	K	83	207.748	121.278	-66.399	1.00 89.49	KS11
2	N	VAL	K	84	206.793	123.094	-65.471	1.00 75.09	KS11
3	CA	VAL	K	84	206.738	122.511	-64.132	1.00 75.09	KS11
4	CB	VAL	K	84	206.557	123.600	-63.062	1.00 84.93	KS11
5	CG1	VAL	K	84	207.914	124.122	-62.617	1.00 84.93	KS11
6	CG2	VAL	K	84	205.724	124.741	-63.633	1.00 84.93	KS11
7	C	VAL	K	84	205.632	121.467	-63.981	1.00 75.09	KS11
8	O	VAL	K	84	204.549	121.589	-64.561	1.00 75.09	KS11
9	N	ARG	K	85	205.921	120.440	-63.192	1.00 73.32	KS11
0	CA	ARG	K	85	204.988	119.350	-62.972	1.00 73.32	KS11
1	CB	ARG	K	85	205.372	118.150	-63.835	1.00 77.97	KS11
2	CG	ARG	K	85	205.143	118.315	-65.318	1.00 77.97	KS11
3	CD	ARG	K	85	203.784	117.764	-65.685	1.00 77.97	KS11
4	NE	ARG	K	85	203.539	117.773	-67.124	1.00 77.97	KS11
5	CZ	ARG	K	85	204.289	117.137	-68.014	1.00 77.97	KS11
6	NH1	ARG	K	85	205.340	116.438	-67.618	1.00 77.97	KS11
7	NH2	ARG	K	85	203.981	117.199	-69.298	1.00 77.97	KS11
8	C	ARG	K	85	205.016	118.907	-61.524	1.00 73.32	KS11
9	O	ARG	K	85	206.020	118.353	-61.072	1.00 73.32	KS11
0	N	GLY	K	86	203.924	119.154	-60.803	1.00 72.75	KS11
1	CA	GLY	K	86	203.823	118.731	-59.413	1.00 72.75	KS11
2	C	GLY	K	86	204.442	119.614	-58.356	1.00 72.75	KS11
3	O	GLY	K	86	205.582	120.041	-58.470	1.00 72.75	KS11
4	N	THR	K	87	203.682	119.882	-57.307	1.00 85.74	KS11
5	CA	THR	K	87	204.188	120.705	-56.228	1.00 85.74	KS11
6	CB	THR	K	87	203.055	121.248	-55.368	1.00145.09	KS11
7	OG1	THR	K	87	202.148	121.988	-56.193	1.00145.09	KS11
8	CG2	THR	K	87	203.612	122.156	-54.278	1.00145.09	KS11
9	C	THR	K	87	205.066	119.835	-55.360	1.00 85.74	KS11
0	O	THR	K	87	204.700	118.706	-55.052	1.00 85.74	KS11
1	N	GLY	K	88	206.222	120.350	-54.960	1.00 66.25	KS11
2	CA	GLY	K	88	207.101	119.555	-54.128	1.00 66.25	KS11
3	C	GLY	K	88	208.351	120.259	-53.643	1.00 66.25	KS11
4	O	GLY	K	88	208.706	121.325	-54.137	1.00 66.25	KS11
5	N	ALA	K	89	209.020	119.645	-52.673	1.00167.15	KS11
6	CA	ALA	K	89	210.243	120.187	-52.096	1.00167.15	KS11
7	CB	ALA	K	89	210.978	119.089	-51.332	1.00 99.97	KS11
8	C	ALA	K	89	211.166	120.795	-53.149	1.00167.15	KS11
9	O	ALA	K	89	211.917	120.081	-53.814	1.00167.15	KS11
0	N	GLY	K	90	211.103	122.115	-53.300	1.00 75.59	KS11
1	CA	GLY	K	90	211.959	122.790	-54.263	1.00 75.59	KS11
2	C	GLY	K	90	211.581	122.710	-55.738	1.00 75.59	KS11
3	O	GLY	K	90	212.270	122.090	-56.546	1.00 75.59	KS11
4	N	ARG	K	91	210.478	123.348	-56.096	1.00 78.75	KS11
5	CA	ARG	K	91	210.047	123.359	-57.479	1.00 78.75	KS11
6	CB	ARG	K	91	208.530	123.215	-57.592	1.00111.49	KS11
7	CG	ARG	K	91	208.027	123.284	-59.032	1.00111.49	KS11
8	CD	ARG	K	91	206.806	124.166	-59.150	1.00111.49	KS11
9	NE	ARG	K	91	205.710	123.680	-58.322	1.00111.49	KS11
0	CZ	ARG	K	91	204.712	124.443	-57.896	1.00111.49	KS11
1	NH1	ARG	K	91	204.681	125.728	-58.223	1.00111.49	KS11
2	NH2	ARG	K	91	203.755	123.930	-57.137	1.00111.49	KS11
3	C	ARG	K	91	210.439	124.716	-57.981	1.00 78.75	KS11
4	O	ARG	K	91	211.157	124.850	-58.962	1.00 78.75	KS11
5	N	GLU	K	92	209.958	125.732	-57.285	1.00107.57	KS11
6	CA	GLU	K	92	210.267	127.086	-57.671	1.00107.57	KS11
7	CB	GLU	K	92	209.662	128.069	-56.668	1.00123.02	KS11
8	CG	GLU	K	92	208.881	129.213	-57.318	1.00123.02	KS11

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ATOM	44489	CD	GLU	K	92	207.871	128.734	-58.365	1.00123.02	KS11
ATOM	44490	OE1	GLU	K	92	207.116	127.774	-58.095	1.00123.02	KS11
ATOM	44491	OE2	GLU	K	92	207.827	129.329	-59.462	1.00123.02	KS11
ATOM	44492	C	GLU	K	92	211.780	127.245	-57.736	1.00107.57	KS11
ATOM	44493	O	GLU	K	92	212.291	128.007	-58.558	1.00107.57	KS11
ATOM	44494	N	GLN	K	93	212.498	126.506	-56.889	1.00 81.73	KS11
ATOM	44495	CA	GLN	K	93	213.956	126.591	-56.858	1.00 81.73	KS11
ATOM	44496	CB	GLN	K	93	214.522	125.726	-55.739	1.00111.30	KS11
ATOM	44497	CG	GLN	K	93	215.151	126.547	-54.647	1.00111.30	KS11
ATOM	44498	CD	GLN	K	93	216.040	127.633	-55.210	1.00111.30	KS11
ATOM	44499	OE1	GLN	K	93	217.001	127.353	-55.925	1.00111.30	KS11
ATOM	44500	NE2	GLN	K	93	215.720	128.882	-54.897	1.00111.30	KS11
ATOM	44501	C	GLN	K	93	214.596	126.193	-58.172	1.00 81.73	KS11
ATOM	44502	O	GLN	K	93	215.532	126.839	-58.631	1.00 81.73	KS11
ATOM	44503	N	ALA	K	94	214.093	125.118	-58.768	1.00 86.75	KS11
ATOM	44504	CA	ALA	K	94	214.604	124.642	-60.047	1.00 86.75	KS11
ATOM	44505	CB	ALA	K	94	213.856	123.374	-60.477	1.00 77.12	KS11
ATOM	44506	C	ALA	K	94	214.396	125.750	-61.070	1.00 86.75	KS11
ATOM	44507	O	ALA	K	94	215.318	126.129	-61.787	1.00 86.75	KS11
ATOM	44508	N	ILE	K	95	213.177	126.269	-61.127	1.00 77.00	KS11
ATOM	44509	CA	ILE	K	95	212.850	127.341	-62.052	1.00 77.00	KS11
ATOM	44510	CB	ILE	K	95	211.438	127.889	-61.763	1.00 60.95	KS11
ATOM	44511	CG2	ILE	K	95	211.171	129.125	-62.608	1.00 60.95	KS11
ATOM	44512	CG1	ILE	K	95	210.405	126.788	-62.019	1.00 60.95	KS11
ATOM	44513	CD1	ILE	K	95	208.975	127.178	-61.708	1.00 60.95	KS11
ATOM	44514	C	ILE	K	95	213.868	128.486	-61.957	1.00 77.00	KS11
ATOM	44515	O	ILE	K	95	214.396	128.949	-62.966	1.00 77.00	KS11
ATOM	44516	N	ARG	K	96	214.149	128.941	-60.744	1.00 80.86	KS11
ATOM	44517	CA	ARG	K	96	215.099	130.022	-60.556	1.00 80.86	KS11
ATOM	44518	CB	ARG	K	96	215.123	130.417	-59.081	1.00123.29	KS11
ATOM	44519	CG	ARG	K	96	213.837	131.116	-58.683	1.00123.29	KS11
ATOM	44520	CD	ARG	K	96	213.344	130.752	-57.295	1.00123.29	KS11
ATOM	44521	NE	ARG	K	96	214.170	131.306	-56.229	1.00123.29	KS11
ATOM	44522	CZ	ARG	K	96	213.756	131.449	-54.973	1.00123.29	KS11
ATOM	44523	NH1	ARG	K	96	212.525	131.078	-54.637	1.00123.29	KS11
ATOM	44524	NH2	ARG	K	96	214.567	131.965	-54.056	1.00123.29	KS11
ATOM	44525	C	ARG	K	96	216.489	129.632	-61.056	1.00 80.86	KS11
ATOM	44526	O	ARG	K	96	217.151	130.410	-61.751	1.00 80.86	KS11
ATOM	44527	N	ALA	K	97	216.922	128.423	-60.718	1.00 81.43	KS11
ATOM	44528	CA	ALA	K	97	218.231	127.944	-61.142	1.00 81.43	KS11
ATOM	44529	CB	ALA	K	97	218.411	126.487	-60.755	1.00107.93	KS11
ATOM	44530	C	ALA	K	97	218.368	128.106	-62.647	1.00 81.43	KS11
ATOM	44531	O	ALA	K	97	219.339	128.690	-63.120	1.00 81.43	KS11
ATOM	44532	N	LEU	K	98	217.394	127.591	-63.396	1.00103.44	KS11
ATOM	44533	CA	LEU	K	98	217.415	127.696	-64.850	1.00103.44	KS11
ATOM	44534	CB	LEU	K	98	216.177	127.064	-65.472	1.00 61.58	KS11
ATOM	44535	CG	LEU	K	98	216.025	125.550	-65.358	1.00 61.58	KS11
ATOM	44536	CD1	LEU	K	98	214.711	125.139	-66.029	1.00 61.58	KS11
ATOM	44537	CD2	LEU	K	98	217.228	124.846	-66.000	1.00 61.58	KS11
ATOM	44538	C	LEU	K	98	217.452	129.148	-65.256	1.00103.44	KS11
ATOM	44539	O	LEU	K	98	218.260	129.541	-66.094	1.00103.44	KS11
ATOM	44540	N	GLN	K	99	216.568	129.946	-64.664	1.00116.32	KS11
ATOM	44541	CA	GLN	K	99	216.507	131.367	-64.977	1.00116.32	KS11
ATOM	44542	CB	GLN	K	99	215.511	132.071	-64.052	1.00 98.61	KS11
ATOM	44543	CG	GLN	K	99	214.076	131.604	-64.257	1.00 98.61	KS11
ATOM	44544	CD	GLN	K	99	213.048	132.542	-63.655	1.00 98.61	KS11
ATOM	44545	OE1	GLN	K	99	212.961	132.702	-62.436	1.00 98.61	KS11
ATOM	44546	NE2	GLN	K	99	212.258	133.172	-64.516	1.00 98.61	KS11
ATOM	44547	C	GLN	K	99	217.890	132.009	-64.882	1.00116.32	KS11
ATOM	44548	O	GLN	K	99	218.154	133.033	-65.513	1.00116.32	KS11
ATOM	44549	N	ALA	K	100	218.768	131.397	-64.093	1.00 90.89	KS11
ATOM	44550	CA	ALA	K	100	220.140	131.874	-63.945	1.00 90.89	KS11
ATOM	44551	CB	ALA	K	100	220.650	131.560	-62.548	1.00 64.55	KS11
ATOM	44552	C	ALA	K	100	220.984	131.140	-64.994	1.00 90.89	KS11
ATOM	44553	O	ALA	K	100	220.971	131.490	-66.177	1.00 90.89	KS11
ATOM	44554	N	SER	K	101	221.707	130.119	-64.540	1.00133.94	KS11
ATOM	44555	CA	SER	K	101	222.542	129.277	-65.396	1.00133.94	KS11
ATOM	44556	CB	SER	K	101	221.724	128.067	-65.877	1.00 84.16	KS11
ATOM	44557	OG	SER	K	101	220.586	128.463	-66.633	1.00 84.16	KS11
ATOM	44558	C	SER	K	101	223.160	129.974	-66.607	1.00133.94	KS11
ATOM	44559	O	SER	K	101	224.309	130.415	-66.579	1.00133.94	KS11
ATOM	44560	N	GLY	K	102	222.385	130.029	-67.680	1.00106.09	KS11
ATOM	44561	CA	GLY	K	102	222.820	130.660	-68.905	1.00106.09	KS11
ATOM	44562	C	GLY	K	102	221.564	130.721	-69.738	1.00106.09	KS11
ATOM	44563	O	GLY	K	102	221.152	131.778	-70.220	1.00106.09	KS11
ATOM	44564	N	LEU	K	103	220.937	129.560	-69.875	1.00103.14	KS11
ATOM	44565	CA	LEU	K	103	219.703	129.416	-70.632	1.00103.14	KS11

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ATOM	44566	CB	LEU	K	103	219.021	128.108	-70.238	1.00	71.62	KS11
ATOM	44567	CG	LEU	K	103	219.917	126.874	-70.249	1.00	71.62	KS11
ATOM	44568	CD1	LEU	K	103	219.182	125.656	-69.686	1.00	71.62	KS11
ATOM	44569	CD2	LEU	K	103	220.358	126.629	-71.674	1.00	71.62	KS11
ATOM	44570	C	LEU	K	103	218.724	130.574	-70.421	1.00	103.14	KS11
ATOM	44571	O	LEU	K	103	218.502	131.037	-69.295	1.00	103.14	KS11
ATOM	44572	N	GLN	K	104	218.145	131.043	-71.518	1.00	101.60	KS11
ATOM	44573	CA	GLN	K	104	217.173	132.116	-71.452	1.00	101.60	KS11
ATOM	44574	CB	GLN	K	104	217.213	132.959	-72.722	1.00	138.73	KS11
ATOM	44575	CG	GLN	K	104	216.260	134.131	-72.694	1.00	138.73	KS11
ATOM	44576	CD	GLN	K	104	216.365	134.995	-73.932	1.00	138.73	KS11
ATOM	44577	OE1	GLN	K	104	216.059	134.555	-75.043	1.00	138.73	KS11
ATOM	44578	NE2	GLN	K	104	216.804	136.236	-73.748	1.00	138.73	KS11
ATOM	44579	C	GLN	K	104	215.812	131.454	-71.308	1.00	101.60	KS11
ATOM	44580	O	GLN	K	104	215.381	130.702	-72.181	1.00	101.60	KS11
ATOM	44581	N	VAL	K	105	215.151	131.720	-70.188	1.00	83.81	KS11
ATOM	44582	CA	VAL	K	105	213.840	131.153	-69.917	1.00	83.81	KS11
ATOM	44583	CB	VAL	K	105	213.560	131.150	-68.402	1.00	54.17	KS11
ATOM	44584	CG1	VAL	K	105	212.252	130.440	-68.116	1.00	54.17	KS11
ATOM	44585	CG2	VAL	K	105	214.717	130.487	-67.664	1.00	54.17	KS11
ATOM	44586	C	VAL	K	105	212.759	131.968	-70.628	1.00	83.81	KS11
ATOM	44587	O	VAL	K	105	212.358	133.034	-70.154	1.00	83.81	KS11
ATOM	44588	N	LYS	K	106	212.300	131.469	-71.774	1.00	104.90	KS11
ATOM	44589	CA	LYS	K	106	211.260	132.145	-72.549	1.00	104.90	KS11
ATOM	44590	CB	LYS	K	106	211.012	131.415	-73.875	1.00	123.46	KS11
ATOM	44591	CG	LYS	K	106	212.108	131.597	-74.901	1.00	123.46	KS11
ATOM	44592	CD	LYS	K	106	212.261	133.065	-75.254	1.00	123.46	KS11
ATOM	44593	CE	LYS	K	106	213.479	133.306	-76.135	1.00	123.46	KS11
ATOM	44594	NZ	LYS	K	106	213.727	134.762	-76.380	1.00	123.46	KS11
ATOM	44595	C	LYS	K	106	209.955	132.210	-71.767	1.00	104.90	KS11
ATOM	44596	O	LYS	K	106	209.321	133.260	-71.681	1.00	104.90	KS11
ATOM	44597	N	SER	K	107	209.564	131.078	-71.191	1.00	102.58	KS11
ATOM	44598	CA	SER	K	107	208.328	130.997	-70.427	1.00	102.58	KS11
ATOM	44599	CB	SER	K	107	207.159	130.739	-71.375	1.00	96.55	KS11
ATOM	44600	OG	SER	K	107	207.295	129.469	-71.996	1.00	96.55	KS11
ATOM	44601	C	SER	K	107	208.355	129.897	-69.368	1.00	102.58	KS11
ATOM	44602	O	SER	K	107	209.319	129.140	-69.243	1.00	102.58	KS11
ATOM	44603	N	ILE	K	108	207.271	129.822	-68.607	1.00	76.96	KS11
ATOM	44604	CA	ILE	K	108	207.115	128.822	-67.562	1.00	76.96	KS11
ATOM	44605	CB	ILE	K	108	207.509	129.402	-66.195	1.00	82.21	KS11
ATOM	44606	CG2	ILE	K	108	207.448	128.318	-65.128	1.00	82.21	KS11
ATOM	44607	CG1	ILE	K	108	208.920	129.982	-66.275	1.00	82.21	KS11
ATOM	44608	CD1	ILE	K	108	209.408	130.580	-64.977	1.00	82.21	KS11
ATOM	44609	C	ILE	K	108	205.639	128.420	-67.555	1.00	76.96	KS11
ATOM	44610	O	ILE	K	108	204.765	129.261	-67.755	1.00	76.96	KS11
ATOM	44611	N	VAL	K	109	205.350	127.146	-67.331	1.00	91.37	KS11
ATOM	44612	CA	VAL	K	109	203.963	126.716	-67.349	1.00	91.37	KS11
ATOM	44613	CB	VAL	K	109	203.541	126.335	-68.786	1.00	53.45	KS11
ATOM	44614	CG1	VAL	K	109	202.096	125.847	-68.804	1.00	53.45	KS11
ATOM	44615	CG2	VAL	K	109	203.719	127.515	-69.713	1.00	53.45	KS11
ATOM	44616	C	VAL	K	109	203.648	125.525	-66.452	1.00	91.37	KS11
ATOM	44617	O	VAL	K	109	204.274	124.460	-66.579	1.00	91.37	KS11
ATOM	44618	N	ASP	K	110	202.683	125.697	-65.545	1.00	79.45	KS11
ATOM	44619	CA	ASP	K	110	202.273	124.585	-64.697	1.00	79.45	KS11
ATOM	44620	CB	ASP	K	110	201.331	125.028	-63.583	1.00	166.64	KS11
ATOM	44621	CG	ASP	K	110	200.684	123.844	-62.865	1.00	166.64	KS11
ATOM	44622	OD1	ASP	K	110	199.968	123.057	-63.524	1.00	166.64	KS11
ATOM	44623	OD2	ASP	K	110	200.888	123.692	-61.643	1.00	166.64	KS11
ATOM	44624	C	ASP	K	110	201.509	123.646	-65.617	1.00	79.45	KS11
ATOM	44625	O	ASP	K	110	200.609	124.076	-66.346	1.00	79.45	KS11
ATOM	44626	N	ASP	K	111	201.871	122.370	-65.592	1.00	83.48	KS11
ATOM	44627	CA	ASP	K	111	201.199	121.380	-66.422	1.00	83.48	KS11
ATOM	44628	CB	ASP	K	111	202.041	121.050	-67.658	1.00	136.31	KS11
ATOM	44629	CG	ASP	K	111	201.271	120.242	-68.691	1.00	136.31	KS11
ATOM	44630	OD1	ASP	K	111	200.276	120.763	-69.240	1.00	136.31	KS11
ATOM	44631	OD2	ASP	K	111	201.657	119.082	-68.955	1.00	136.31	KS11
ATOM	44632	C	ASP	K	111	200.981	120.127	-65.584	1.00	83.48	KS11
ATOM	44633	O	ASP	K	111	200.703	119.044	-66.111	1.00	83.48	KS11
ATOM	44634	N	THR	K	112	201.111	120.286	-64.270	1.00	75.09	KS11
ATOM	44635	CA	THR	K	112	200.919	119.176	-63.351	1.00	75.09	KS11
ATOM	44636	CB	THR	K	112	200.797	119.654	-61.917	1.00	86.77	KS11
ATOM	44637	OG1	THR	K	112	201.814	120.629	-61.642	1.00	86.77	KS11
ATOM	44638	CG2	THR	K	112	200.948	118.470	-60.974	1.00	86.77	KS11
ATOM	44639	C	THR	K	112	199.626	118.484	-63.728	1.00	75.09	KS11
ATOM	44640	O	THR	K	112	198.624	119.127	-64.020	1.00	75.09	KS11
ATOM	44641	N	PRO	K	113	199.628	117.157	-63.729	1.00	84.59	KS11
ATOM	44642	CD	PRO	K	113	200.736	116.221	-63.479	1.00	51.15	KS11

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ATOM	44643	CA	PRO	K	113	198.409	116.446	-64.093	1.00	84.59	KS11
ATOM	44644	CB	PRO	K	113	198.948	115.138	-64.634	1.00	51.15	KS11
ATOM	44645	CG	PRO	K	113	200.071	114.856	-63.653	1.00	51.15	KS11
ATOM	44646	C	PRO	K	113	197.482	116.235	-62.905	1.00	84.59	KS11
ATOM	44647	O	PRO	K	113	197.919	116.078	-61.766	1.00	84.59	KS11
ATOM	44648	N	VAL	K	114	196.192	116.238	-63.177	1.00	82.46	KS11
ATOM	44649	CA	VAL	K	114	195.220	116.015	-62.134	1.00	82.46	KS11
ATOM	44650	CB	VAL	K	114	194.617	117.332	-61.624	1.00	73.55	KS11
ATOM	44651	CG1	VAL	K	114	194.125	118.171	-62.796	1.00	73.55	KS11
ATOM	44652	CG2	VAL	K	114	193.469	117.033	-60.659	1.00	73.55	KS11
ATOM	44653	C	VAL	K	114	194.143	115.189	-62.786	1.00	82.46	KS11
ATOM	44654	O	VAL	K	114	193.755	115.460	-63.917	1.00	82.46	KS11
ATOM	44655	N	PRO	K	115	193.661	114.149	-62.099	1.00	70.55	KS11
ATOM	44656	CD	PRO	K	115	194.187	113.498	-60.892	1.00	64.76	KS11
ATOM	44657	CA	PRO	K	115	192.615	113.330	-62.707	1.00	70.55	KS11
ATOM	44658	CB	PRO	K	115	192.654	112.043	-61.883	1.00	64.76	KS11
ATOM	44659	CG	PRO	K	115	194.031	112.050	-61.248	1.00	64.76	KS11
ATOM	44660	C	PRO	K	115	191.296	114.033	-62.540	1.00	70.55	KS11
ATOM	44661	O	PRO	K	115	191.179	114.933	-61.716	1.00	70.55	KS11
ATOM	44662	N	HIS	K	116	190.310	113.637	-63.330	1.00	59.46	KS11
ATOM	44663	CA	HIS	K	116	188.976	114.196	-63.199	1.00	59.46	KS11
ATOM	44664	CB	HIS	K	116	188.437	114.504	-64.588	1.00	71.90	KS11
ATOM	44665	CG	HIS	K	116	189.170	115.638	-65.243	1.00	71.90	KS11
ATOM	44666	CD2	HIS	K	116	188.824	116.475	-66.253	1.00	71.90	KS11
ATOM	44667	ND1	HIS	K	116	190.410	116.062	-64.806	1.00	71.90	KS11
ATOM	44668	CE1	HIS	K	116	190.790	117.114	-65.511	1.00	71.90	KS11
ATOM	44669	NE2	HIS	K	116	189.846	117.387	-66.394	1.00	71.90	KS11
ATOM	44670	C	HIS	K	116	188.224	113.107	-62.423	1.00	59.46	KS11
ATOM	44671	O	HIS	K	116	187.065	112.760	-62.677	1.00	59.46	KS11
ATOM	44672	N	ASN	K	117	188.977	112.590	-61.449	1.00	84.61	KS11
ATOM	44673	CA	ASN	K	117	188.590	111.540	-60.529	1.00	84.61	KS11
ATOM	44674	CB	ASN	K	117	187.284	111.909	-59.864	1.00	101.21	KS11
ATOM	44675	CG	ASN	K	117	187.485	112.972	-58.814	1.00	101.21	KS11
ATOM	44676	OD1	ASN	K	117	187.838	112.672	-57.666	1.00	101.21	KS11
ATOM	44677	ND2	ASN	K	117	187.309	114.233	-59.206	1.00	101.21	KS11
ATOM	44678	C	ASN	K	117	188.527	110.193	-61.195	1.00	84.61	KS11
ATOM	44679	O	ASN	K	117	187.455	109.709	-61.526	1.00	84.61	KS11
ATOM	44680	N	GLY	K	118	189.704	109.592	-61.375	1.00	81.92	KS11
ATOM	44681	CA	GLY	K	118	189.800	108.303	-62.028	1.00	81.92	KS11
ATOM	44682	C	GLY	K	118	190.089	107.098	-61.146	1.00	81.92	KS11
ATOM	44683	O	GLY	K	118	189.208	106.258	-60.928	1.00	81.92	KS11
ATOM	44684	N	CYS	K	119	191.312	106.993	-60.635	1.00	66.60	KS11
ATOM	44685	CA	CYS	K	119	191.680	105.841	-59.806	1.00	66.60	KS11
ATOM	44686	CB	CYS	K	119	193.029	105.291	-60.264	1.00	93.12	KS11
ATOM	44687	SG	CYS	K	119	193.027	104.815	-61.999	1.00	93.12	KS11
ATOM	44688	C	CYS	K	119	191.728	106.095	-58.309	1.00	66.60	KS11
ATOM	44689	O	CYS	K	119	192.072	107.192	-57.863	1.00	66.60	KS11
ATOM	44690	N	ARG	K	120	191.388	105.072	-57.530	1.00	54.77	KS11
ATOM	44691	CA	ARG	K	120	191.405	105.229	-56.085	1.00	54.77	KS11
ATOM	44692	CB	ARG	K	120	190.720	104.054	-55.391	1.00	63.25	KS11
ATOM	44693	CG	ARG	K	120	191.049	104.040	-53.911	1.00	63.25	KS11
ATOM	44694	CD	ARG	K	120	190.467	102.874	-53.179	1.00	63.25	KS11
ATOM	44695	NE	ARG	K	120	189.213	103.226	-52.529	1.00	63.25	KS11
ATOM	44696	CZ	ARG	K	120	188.860	102.791	-51.318	1.00	63.25	KS11
ATOM	44697	NH1	ARG	K	120	189.673	101.995	-50.632	1.00	63.25	KS11
ATOM	44698	NH2	ARG	K	120	187.694	103.142	-50.787	1.00	63.25	KS11
ATOM	44699	C	ARG	K	120	192.832	105.335	-55.565	1.00	54.77	KS11
ATOM	44700	O	ARG	K	120	193.598	104.378	-55.636	1.00	54.77	KS11
ATOM	44701	N	PRO	K	121	193.220	106.497	-55.039	1.00	52.59	KS11
ATOM	44702	CD	PRO	K	121	192.510	107.770	-54.893	1.00	62.05	KS11
ATOM	44703	CA	PRO	K	121	194.589	106.605	-54.532	1.00	52.59	KS11
ATOM	44704	CB	PRO	K	121	194.676	108.049	-54.068	1.00	62.05	KS11
ATOM	44705	CG	PRO	K	121	193.262	108.387	-53.745	1.00	62.05	KS11
ATOM	44706	C	PRO	K	121	194.904	105.622	-53.406	1.00	52.59	KS11
ATOM	44707	O	PRO	K	121	193.997	105.115	-52.723	1.00	52.59	KS11
ATOM	44708	N	LYS	K	122	196.198	105.347	-53.234	1.00	58.73	KS11
ATOM	44709	CA	LYS	K	122	196.662	104.437	-52.194	1.00	58.73	KS11
ATOM	44710	CB	LYS	K	122	198.185	104.426	-52.153	1.00	96.79	KS11
ATOM	44711	CG	LYS	K	122	198.836	104.563	-53.522	1.00	96.79	KS11
ATOM	44712	CD	LYS	K	122	200.343	104.727	-53.414	1.00	96.79	KS11
ATOM	44713	CE	LYS	K	122	200.987	103.533	-52.730	1.00	96.79	KS11
ATOM	44714	NZ	LYS	K	122	202.437	103.772	-52.455	1.00	96.79	KS11
ATOM	44715	C	LYS	K	122	196.129	105.025	-50.898	1.00	58.73	KS11
ATOM	44716	O	LYS	K	122	195.862	106.237	-50.830	1.00	58.73	KS11
ATOM	44717	N	LYS	K	123	195.972	104.181	-49.879	1.00	57.36	KS11
ATOM	44718	CA	LYS	K	123	195.469	104.635	-48.586	1.00	57.36	KS11
ATOM	44719	CB	LYS	K	123	195.748	103.576	-47.526	1.00	60.70	KS11

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ATOM	44720	CG	LYS	K	123	195.336	103.987	-46.131	1.00	60.70	KS11
ATOM	44721	CD	LYS	K	123	195.282	102.771	-45.220	1.00	60.70	KS11
ATOM	44722	CE	LYS	K	123	195.928	103.031	-43.853	1.00	60.70	KS11
ATOM	44723	NZ	LYS	K	123	196.333	101.751	-43.161	1.00	60.70	KS11
ATOM	44724	C	LYS	K	123	196.184	105.940	-48.247	1.00	57.36	KS11
ATOM	44725	O	LYS	K	123	195.589	106.918	-47.771	1.00	57.36	KS11
ATOM	44726	N	LYS	K	124	197.477	105.932	-48.539	1.00	64.02	KS11
ATOM	44727	CA	LYS	K	124	198.375	107.059	-48.326	1.00	64.02	KS11
ATOM	44728	CB	LYS	K	124	199.623	106.843	-49.181	1.00	124.31	KS11
ATOM	44729	CG	LYS	K	124	200.920	106.851	-48.432	1.00	124.31	KS11
ATOM	44730	CD	LYS	K	124	201.720	108.052	-48.838	1.00	124.31	KS11
ATOM	44731	CE	LYS	K	124	202.969	108.155	-48.016	1.00	124.31	KS11
ATOM	44732	NZ	LYS	K	124	203.630	109.452	-48.276	1.00	124.31	KS11
ATOM	44733	C	LYS	K	124	197.747	108.405	-48.669	1.00	64.02	KS11
ATOM	44734	O	LYS	K	124	197.881	109.346	-47.915	1.00	64.02	KS11
ATOM	44735	N	PHE	K	125	197.058	108.497	-49.800	1.00	79.91	KS11
ATOM	44736	CA	PHE	K	125	196.461	109.766	-50.205	1.00	79.91	KS11
ATOM	44737	CB	PHE	K	125	196.901	110.161	-51.625	1.00	72.45	KS11
ATOM	44738	CG	PHE	K	125	198.382	110.092	-51.866	1.00	72.45	KS11
ATOM	44739	CD1	PHE	K	125	199.014	108.874	-52.053	1.00	72.45	KS11
ATOM	44740	CD2	PHE	K	125	199.147	111.255	-51.911	1.00	72.45	KS11
ATOM	44741	CE1	PHE	K	125	200.384	108.813	-52.281	1.00	72.45	KS11
ATOM	44742	CE2	PHE	K	125	200.519	111.206	-52.137	1.00	72.45	KS11
ATOM	44743	CZ	PHE	K	125	201.139	109.980	-52.321	1.00	72.45	KS11
ATOM	44744	C	PHE	K	125	194.936	109.798	-50.191	1.00	79.91	KS11
ATOM	44745	O	PHE	K	125	194.338	110.556	-50.962	1.00	79.91	KS11
ATOM	44746	N	ARG	K	126	194.293	109.002	-49.343	1.00	94.71	KS11
ATOM	44747	CA	ARG	K	126	192.832	109.013	-49.322	1.00	94.71	KS11
ATOM	44748	CB	ARG	K	126	192.280	107.627	-48.988	1.00	103.46	KS11
ATOM	44749	CG	ARG	K	126	192.588	106.566	-50.023	1.00	103.46	KS11
ATOM	44750	CD	ARG	K	126	191.447	105.579	-50.109	1.00	103.46	KS11
ATOM	44751	NE	ARG	K	126	190.281	106.196	-50.737	1.00	103.46	KS11
ATOM	44752	CZ	ARG	K	126	189.068	106.259	-50.191	1.00	103.46	KS11
ATOM	44753	NH1	ARG	K	126	188.842	105.742	-48.985	1.00	103.46	KS11
ATOM	44754	NH2	ARG	K	126	188.074	106.833	-50.861	1.00	103.46	KS11
ATOM	44755	C	ARG	K	126	192.239	110.038	-48.363	1.00	94.71	KS11
ATOM	44756	O	ARG	K	126	192.648	111.198	-48.356	1.00	94.71	KS11
ATOM	44757	N	LYS	K	127	191.271	109.602	-47.561	1.00	186.33	KS11
ATOM	44758	CA	LYS	K	127	190.593	110.469	-46.601	1.00	186.33	KS11
ATOM	44759	CB	LYS	K	127	191.398	110.579	-45.304	1.00	124.78	KS11
ATOM	44760	CG	LYS	K	127	191.270	109.361	-44.421	1.00	124.78	KS11
ATOM	44761	CD	LYS	K	127	189.804	109.023	-44.201	1.00	124.78	KS11
ATOM	44762	CE	LYS	K	127	189.647	107.817	-43.304	1.00	124.78	KS11
ATOM	44763	NZ	LYS	K	127	190.260	108.071	-41.974	1.00	124.78	KS11
ATOM	44764	C	LYS	K	127	190.304	111.858	-47.143	1.00	186.33	KS11
ATOM	44765	O	LYS	K	127	190.449	112.854	-46.436	1.00	186.33	KS11
ATOM	44766	N	ALA	K	128	189.894	111.916	-48.405	1.00	198.84	KS11
ATOM	44767	CA	ALA	K	128	189.567	113.182	-49.046	1.00	198.84	KS11
ATOM	44768	CB	ALA	K	128	190.097	113.193	-50.492	1.00	65.61	KS11
ATOM	44769	C	ALA	K	128	188.044	113.374	-49.017	1.00	198.84	KS11
ATOM	44770	O	ALA	K	128	187.414	113.193	-47.972	1.00	198.84	KS11
ATOM	44771	N	SER	K	129	187.465	113.734	-50.161	1.00	198.84	KS11
ATOM	44772	CA	SER	K	129	186.020	113.956	-50.302	1.00	198.84	KS11
ATOM	44773	CB	SER	K	129	185.263	112.618	-50.254	1.00	172.72	KS11
ATOM	44774	OG	SER	K	129	185.337	112.012	-48.973	1.00	172.72	KS11
ATOM	44775	C	SER	K	129	185.427	114.912	-49.264	1.00	198.84	KS11
ATOM	44776	O	SER	K	129	186.161	115.336	-48.346	1.00	198.84	KS11
ATOM	44777	OXT	SER	K	129	184.224	115.227	-49.385	1.00	198.84	KS11
TER	44777		SER	K	129						KS11
ATOM	44778	CB	PRO	L	5	150.462	101.818	-24.509	1.00	39.52	LS12
ATOM	44779	CG	PRO	L	5	151.138	101.982	-23.098	1.00	39.52	LS12
ATOM	44780	C	PRO	L	5	149.168	103.778	-25.248	1.00	57.05	LS12
ATOM	44781	O	PRO	L	5	148.582	104.202	-24.255	1.00	57.05	LS12
ATOM	44782	N	PRO	L	5	151.324	104.061	-24.192	1.00	57.05	LS12
ATOM	44783	CD	PRO	L	5	151.324	103.477	-22.834	1.00	39.52	LS12
ATOM	44784	CA	PRO	L	5	150.560	103.204	-25.120	1.00	57.05	LS12
ATOM	44785	N	THR	L	6	148.636	103.784	-26.464	1.00	45.39	LS12
ATOM	44786	CA	THR	L	6	147.290	104.288	-26.708	1.00	45.39	LS12
ATOM	44787	CB	THR	L	6	146.888	104.116	-28.151	1.00	42.69	LS12
ATOM	44788	OG1	THR	L	6	146.726	102.719	-28.423	1.00	42.69	LS12
ATOM	44789	CG2	THR	L	6	147.942	104.686	-29.060	1.00	42.69	LS12
ATOM	44790	C	THR	L	6	146.306	103.456	-25.913	1.00	45.39	LS12
ATOM	44791	O	THR	L	6	146.636	102.373	-25.424	1.00	45.39	LS12
ATOM	44792	N	ILE	L	7	145.079	103.939	-25.798	1.00	54.81	LS12
ATOM	44793	CA	ILE	L	7	144.110	103.160	-25.068	1.00	54.81	LS12
ATOM	44794	CB	ILE	L	7	142.799	103.927	-24.874	1.00	48.41	LS12
ATOM	44795	CG2	ILE	L	7	141.616	102.986	-24.952	1.00	48.41	LS12

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ATOM	44796	CG1	ILE	L	7	142.830	104.618	-23.512	1.00	48.41	LS12
ATOM	44797	CD1	ILE	L	7	143.225	103.691	-22.385	1.00	48.41	LS12
ATOM	44798	C	ILE	L	7	143.868	101.863	-25.814	1.00	54.81	LS12
ATOM	44799	O	ILE	L	7	143.924	100.800	-25.216	1.00	54.81	LS12
ATOM	44800	N	ASN	L	8	143.631	101.945	-27.121	1.00	61.60	LS12
ATOM	44801	CA	ASN	L	8	143.386	100.746	-27.918	1.00	61.60	LS12
ATOM	44802	CB	ASN	L	8	143.323	101.080	-29.403	1.00	68.75	LS12
ATOM	44803	CG	ASN	L	8	142.542	100.049	-30.195	1.00	68.75	LS12
ATOM	44804	OD1	ASN	L	8	141.360	99.831	-29.943	1.00	68.75	LS12
ATOM	44805	ND2	ASN	L	8	143.196	99.411	-31.156	1.00	68.75	LS12
ATOM	44806	C	ASN	L	8	144.487	99.724	-27.679	1.00	61.60	LS12
ATOM	44807	O	ASN	L	8	144.211	98.543	-27.458	1.00	61.60	LS12
ATOM	44808	N	GLN	L	9	145.737	100.166	-27.724	1.00	49.20	LS12
ATOM	44809	CA	GLN	L	9	146.838	99.243	-27.471	1.00	49.20	LS12
ATOM	44810	CB	GLN	L	9	148.165	99.992	-27.440	1.00	55.21	LS12
ATOM	44811	CG	GLN	L	9	148.537	100.610	-28.762	1.00	55.21	LS12
ATOM	44812	CD	GLN	L	9	149.862	101.326	-28.698	1.00	55.21	LS12
ATOM	44813	OE1	GLN	L	9	149.987	102.400	-28.091	1.00	55.21	LS12
ATOM	44814	NE2	GLN	L	9	150.874	100.729	-29.318	1.00	55.21	LS12
ATOM	44815	C	GLN	L	9	146.617	98.532	-26.134	1.00	49.20	LS12
ATOM	44816	O	GLN	L	9	146.687	97.306	-26.049	1.00	49.20	LS12
ATOM	44817	N	LEU	L	10	146.341	99.309	-25.093	1.00	57.07	LS12
ATOM	44818	CA	LEU	L	10	146.102	98.741	-23.773	1.00	57.07	LS12
ATOM	44819	CB	LEU	L	10	145.770	99.842	-22.769	1.00	61.56	LS12
ATOM	44820	CG	LEU	L	10	146.999	100.569	-22.220	1.00	61.56	LS12
ATOM	44821	CD1	LEU	L	10	146.588	101.833	-21.486	1.00	61.56	LS12
ATOM	44822	CD2	LEU	L	10	147.752	99.632	-21.294	1.00	61.56	LS12
ATOM	44823	C	LEU	L	10	144.992	97.700	-23.778	1.00	57.07	LS12
ATOM	44824	O	LEU	L	10	145.045	96.744	-23.020	1.00	57.07	LS12
ATOM	44825	N	VAL	L	11	143.985	97.871	-24.621	1.00	62.07	LS12
ATOM	44826	CA	VAL	L	11	142.907	96.893	-24.656	1.00	62.07	LS12
ATOM	44827	CB	VAL	L	11	141.652	97.424	-25.379	1.00	46.61	LS12
ATOM	44828	CG1	VAL	L	11	140.603	96.330	-25.467	1.00	46.61	LS12
ATOM	44829	CG2	VAL	L	11	141.094	98.618	-24.637	1.00	46.61	LS12
ATOM	44830	C	VAL	L	11	143.402	95.674	-25.399	1.00	62.07	LS12
ATOM	44831	O	VAL	L	11	143.065	94.545	-25.051	1.00	62.07	LS12
ATOM	44832	N	ARG	L	12	144.208	95.905	-26.426	1.00	55.27	LS12
ATOM	44833	CA	ARG	L	12	144.728	94.802	-27.202	1.00	55.27	LS12
ATOM	44834	CB	ARG	L	12	145.405	95.293	-28.477	1.00	70.48	LS12
ATOM	44835	CG	ARG	L	12	144.462	95.598	-29.615	1.00	70.48	LS12
ATOM	44836	CD	ARG	L	12	145.198	95.587	-30.945	1.00	70.48	LS12
ATOM	44837	NE	ARG	L	12	146.254	96.596	-30.994	1.00	70.48	LS12
ATOM	44838	CZ	ARG	L	12	147.529	96.351	-31.307	1.00	70.48	LS12
ATOM	44839	NH1	ARG	L	12	147.938	95.121	-31.599	1.00	70.48	LS12
ATOM	44840	NH2	ARG	L	12	148.400	97.349	-31.349	1.00	70.48	LS12
ATOM	44841	C	ARG	L	12	145.720	94.000	-26.397	1.00	55.27	LS12
ATOM	44842	O	ARG	L	12	145.475	92.830	-26.128	1.00	55.27	LS12
ATOM	44843	N	LYS	L	13	146.822	94.634	-25.993	1.00	56.71	LS12
ATOM	44844	CA	LYS	L	13	147.888	93.956	-25.251	1.00	56.71	LS12
ATOM	44845	CB	LYS	L	13	149.244	94.405	-25.782	1.00	87.52	LS12
ATOM	44846	CG	LYS	L	13	149.432	94.113	-27.256	1.00	87.52	LS12
ATOM	44847	CD	LYS	L	13	150.705	94.756	-27.779	1.00	87.52	LS12
ATOM	44848	CE	LYS	L	13	150.787	94.701	-29.302	1.00	87.52	LS12
ATOM	44849	NZ	LYS	L	13	151.823	95.644	-29.835	1.00	87.52	LS12
ATOM	44850	C	LYS	L	13	147.886	94.073	-23.731	1.00	56.71	LS12
ATOM	44851	O	LYS	L	13	148.489	93.242	-23.057	1.00	56.71	LS12
ATOM	44852	N	GLY	L	14	147.230	95.097	-23.190	1.00	60.59	LS12
ATOM	44853	CA	GLY	L	14	147.157	95.270	-21.739	1.00	60.59	LS12
ATOM	44854	C	GLY	L	14	148.472	95.350	-20.987	1.00	60.59	LS12
ATOM	44855	O	GLY	L	14	149.523	95.096	-21.558	1.00	60.59	LS12
ATOM	44856	N	ARG	L	15	148.413	95.700	-19.704	1.00	64.15	LS12
ATOM	44857	CA	ARG	L	15	149.619	95.813	-18.878	1.00	64.15	LS12
ATOM	44858	CB	ARG	L	15	149.397	96.819	-17.747	1.00	73.03	LS12
ATOM	44859	CG	ARG	L	15	149.121	98.248	-18.187	1.00	73.03	LS12
ATOM	44860	CD	ARG	L	15	150.349	98.901	-18.798	1.00	73.03	LS12
ATOM	44861	NE	ARG	L	15	150.185	100.350	-18.892	1.00	73.03	LS12
ATOM	44862	CZ	ARG	L	15	151.090	101.180	-19.403	1.00	73.03	LS12
ATOM	44863	NH1	ARG	L	15	152.238	100.713	-19.876	1.00	73.03	LS12
ATOM	44864	NH2	ARG	L	15	150.850	102.484	-19.436	1.00	73.03	LS12
ATOM	44865	C	ARG	L	15	150.008	94.465	-18.269	1.00	64.15	LS12
ATOM	44866	O	ARG	L	15	149.188	93.837	-17.613	1.00	64.15	LS12
ATOM	44867	N	GLU	L	16	151.257	94.041	-18.473	1.00	62.08	LS12
ATOM	44868	CA	GLU	L	16	151.785	92.764	-17.967	1.00	62.08	LS12
ATOM	44869	CB	GLU	L	16	153.031	92.411	-18.772	1.00	124.64	LS12
ATOM	44870	CG	GLU	L	16	153.787	91.198	-18.303	1.00	124.64	LS12
ATOM	44871	CD	GLU	L	16	155.117	91.071	-19.015	1.00	124.64	LS12
ATOM	44872	OE1	GLU	L	16	155.944	91.992	-18.872	1.00	124.64	LS12

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ATOM	44873	OE2	GLU	L	16	155.340	90.066	-19.722	1.00124.64	LS12
ATOM	44874	C	GLU	L	16	152.129	92.822	-16.470	1.00 62.08	LS12
ATOM	44875	O	GLU	L	16	153.015	93.579	-16.077	1.00 62.08	LS12
ATOM	44876	N	LYS	L	17	151.447	92.017	-15.646	1.00 63.39	LS12
ATOM	44877	CA	LYS	L	17	151.661	92.010	-14.186	1.00 63.39	LS12
ATOM	44878	CB	LYS	L	17	150.585	91.172	-13.486	1.00121.70	LS12
ATOM	44879	CG	LYS	L	17	149.173	91.762	-13.502	1.00121.70	LS12
ATOM	44880	CD	LYS	L	17	149.001	92.916	-12.506	1.00121.70	LS12
ATOM	44881	CE	LYS	L	17	149.486	94.270	-13.043	1.00121.70	LS12
ATOM	44882	NZ	LYS	L	17	148.596	94.866	-14.091	1.00121.70	LS12
ATOM	44883	C	LYS	L	17	153.025	91.493	-13.771	1.00 63.39	LS12
ATOM	44884	O	LYS	L	17	153.556	90.581	-14.383	1.00 63.39	LS12
ATOM	44885	N	VAL	L	18	153.585	92.073	-12.717	1.00 90.24	LS12
ATOM	44886	CA	VAL	L	18	154.901	91.671	-12.224	1.00 90.24	LS12
ATOM	44887	CB	VAL	L	18	155.459	92.727	-11.232	1.00115.79	LS12
ATOM	44888	CG1	VAL	L	18	156.590	92.137	-10.391	1.00115.79	LS12
ATOM	44889	CG2	VAL	L	18	155.964	93.940	-12.009	1.00115.79	LS12
ATOM	44890	C	VAL	L	18	154.894	90.304	-11.544	1.00 90.24	LS12
ATOM	44891	O	VAL	L	18	153.863	89.859	-11.040	1.00 90.24	LS12
ATOM	44892	N	ARG	L	19	156.051	89.642	-11.543	1.00 96.19	LS12
ATOM	44893	CA	ARG	L	19	156.215	88.330	-10.915	1.00 96.19	LS12
ATOM	44894	CB	ARG	L	19	156.474	87.251	-11.964	1.00166.25	LS12
ATOM	44895	CG	ARG	L	19	155.232	86.746	-12.632	1.00166.25	LS12
ATOM	44896	CD	ARG	L	19	155.557	85.729	-13.698	1.00166.25	LS12
ATOM	44897	NE	ARG	L	19	154.332	85.160	-14.245	1.00166.25	LS12
ATOM	44898	CZ	ARG	L	19	154.272	84.408	-15.338	1.00166.25	LS12
ATOM	44899	NH1	ARG	L	19	155.375	84.126	-16.019	1.00166.25	LS12
ATOM	44900	NH2	ARG	L	19	153.102	83.939	-15.748	1.00166.25	LS12
ATOM	44901	C	ARG	L	19	157.389	88.360	-9.961	1.00 96.19	LS12
ATOM	44902	O	ARG	L	19	158.533	88.415	-10.395	1.00 96.19	LS12
ATOM	44903	N	LYS	L	20	157.116	88.319	-8.665	1.00 85.77	LS12
ATOM	44904	CA	LYS	L	20	158.197	88.340	-7.689	1.00 85.77	LS12
ATOM	44905	CB	LYS	L	20	157.649	88.669	-6.301	1.00182.84	LS12
ATOM	44906	CG	LYS	L	20	156.993	90.031	-6.219	1.00182.84	LS12
ATOM	44907	CD	LYS	L	20	156.481	90.315	-4.822	1.00182.84	LS12
ATOM	44908	CE	LYS	L	20	155.821	91.681	-4.757	1.00182.84	LS12
ATOM	44909	NZ	LYS	L	20	155.355	92.011	-3.382	1.00182.84	LS12
ATOM	44910	C	LYS	L	20	158.901	86.987	-7.664	1.00 85.77	LS12
ATOM	44911	O	LYS	L	20	158.240	85.946	-7.595	1.00 85.77	LS12
ATOM	44912	N	LYS	L	21	160.236	87.006	-7.737	1.00 76.03	LS12
ATOM	44913	CA	LYS	L	21	161.046	85.783	-7.715	1.00 76.03	LS12
ATOM	44914	CB	LYS	L	21	162.232	85.899	-8.682	1.00147.39	LS12
ATOM	44915	CG	LYS	L	21	161.823	85.919	-10.153	1.00147.39	LS12
ATOM	44916	CD	LYS	L	21	163.015	86.110	-11.094	1.00147.39	LS12
ATOM	44917	CE	LYS	L	21	162.572	86.138	-12.562	1.00147.39	LS12
ATOM	44918	NZ	LYS	L	21	163.705	86.393	-13.498	1.00147.39	LS12
ATOM	44919	C	LYS	L	21	161.557	85.571	-6.300	1.00 76.03	LS12
ATOM	44920	O	LYS	L	21	162.264	86.422	-5.767	1.00 76.03	LS12
ATOM	44921	N	SER	L	22	161.199	84.441	-5.693	1.00 74.55	LS12
ATOM	44922	CA	SER	L	22	161.619	84.163	-4.325	1.00 74.55	LS12
ATOM	44923	CB	SER	L	22	161.090	82.822	-3.842	1.00 80.73	LS12
ATOM	44924	OG	SER	L	22	161.586	82.554	-2.540	1.00 80.73	LS12
ATOM	44925	C	SER	L	22	163.115	84.149	-4.180	1.00 74.55	LS12
ATOM	44926	O	SER	L	22	163.816	83.626	-5.040	1.00 74.55	LS12
ATOM	44927	N	LYS	L	23	163.603	84.711	-3.080	1.00 67.64	LS12
ATOM	44928	CA	LYS	L	23	165.038	84.750	-2.834	1.00 67.64	LS12
ATOM	44929	CB	LYS	L	23	165.438	86.081	-2.204	1.00100.68	LS12
ATOM	44930	CG	LYS	L	23	165.508	87.241	-3.169	1.00100.68	LS12
ATOM	44931	CD	LYS	L	23	166.068	88.462	-2.468	1.00100.68	LS12
ATOM	44932	CE	LYS	L	23	166.326	89.593	-3.443	1.00100.68	LS12
ATOM	44933	NZ	LYS	L	23	166.960	90.768	-2.772	1.00100.68	LS12
ATOM	44934	C	LYS	L	23	165.476	83.629	-1.911	1.00 67.64	LS12
ATOM	44935	O	LYS	L	23	166.593	83.655	-1.397	1.00 67.64	LS12
ATOM	44936	N	VAL	L	24	164.619	82.630	-1.727	1.00 65.23	LS12
ATOM	44937	CA	VAL	L	24	164.936	81.555	-0.802	1.00 65.23	LS12
ATOM	44938	CB	VAL	L	24	164.548	81.983	0.648	1.00 69.23	LS12
ATOM	44939	CG1	VAL	L	24	164.513	80.783	1.571	1.00 69.23	LS12
ATOM	44940	CG2	VAL	L	24	165.531	83.018	1.175	1.00 69.23	LS12
ATOM	44941	C	VAL	L	24	164.235	80.238	-1.089	1.00 65.23	LS12
ATOM	44942	O	VAL	L	24	163.064	80.088	-0.769	1.00 65.23	LS12
ATOM	44943	N	PRO	L	25	164.912	79.283	-1.739	1.00 69.13	LS12
ATOM	44944	CD	PRO	L	25	165.745	79.533	-2.927	1.00 59.24	LS12
ATOM	44945	CA	PRO	L	25	164.117	78.059	-1.927	1.00 69.13	LS12
ATOM	44946	CB	PRO	L	25	164.559	77.571	-3.297	1.00 59.24	LS12
ATOM	44947	CG	PRO	L	25	164.928	78.882	-3.998	1.00 59.24	LS12
ATOM	44948	C	PRO	L	25	164.272	77.006	-0.797	1.00 69.13	LS12
ATOM	44949	O	PRO	L	25	164.875	75.933	-0.946	1.00 69.13	LS12

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ATOM	44950	N	ALA	L	26	163.717	77.361	0.357	1.00103.01	LS12
ATOM	44951	CA	ALA	L	26	163.686	76.501	1.531	1.00103.01	LS12
ATOM	44952	CB	ALA	L	26	163.406	77.357	2.831	1.00 24.44	LS12
ATOM	44953	C	ALA	L	26	162.473	75.658	1.165	1.00103.01	LS12
ATOM	44954	O	ALA	L	26	161.812	75.083	2.027	1.00103.01	LS12
ATOM	44955	N	LEU	L	27	162.195	75.631	-0.144	1.00 95.18	LS12
ATOM	44956	CA	LEU	L	27	161.063	74.930	-0.773	1.00 95.18	LS12
ATOM	44957	CB	LEU	L	27	161.355	73.434	-0.984	1.00101.23	LS12
ATOM	44958	CG	LEU	L	27	160.441	72.640	-1.934	1.00101.23	LS12
ATOM	44959	CD1	LEU	L	27	161.027	72.683	-3.345	1.00101.23	LS12
ATOM	44960	CD2	LEU	L	27	160.315	71.188	-1.472	1.00101.23	LS12
ATOM	44961	C	LEU	L	27	159.824	75.070	0.075	1.00 95.18	LS12
ATOM	44962	O	LEU	L	27	159.832	75.773	1.083	1.00 95.18	LS12
ATOM	44963	N	LYS	L	28	158.762	74.391	-0.337	1.00190.53	LS12
ATOM	44964	CA	LYS	L	28	157.505	74.430	0.388	1.00190.53	LS12
ATOM	44965	CB	LYS	L	28	157.522	73.424	1.546	1.00174.93	LS12
ATOM	44966	CG	LYS	L	28	157.794	71.973	1.167	1.00174.93	LS12
ATOM	44967	CD	LYS	L	28	157.496	71.060	2.356	1.00174.93	LS12
ATOM	44968	CE	LYS	L	28	157.816	69.604	2.070	1.00174.93	LS12
ATOM	44969	NZ	LYS	L	28	157.405	68.737	3.209	1.00174.93	LS12
ATOM	44970	C	LYS	L	28	157.284	75.824	0.959	1.00190.53	LS12
ATOM	44971	O	LYS	L	28	156.458	76.003	1.856	1.00190.53	LS12
ATOM	44972	N	GLY	L	29	158.021	76.807	0.443	1.00 89.90	LS12
ATOM	44973	CA	GLY	L	29	157.895	78.157	0.958	1.00 89.90	LS12
ATOM	44974	C	GLY	L	29	157.761	78.136	2.471	1.00 89.90	LS12
ATOM	44975	O	GLY	L	29	157.105	78.994	3.067	1.00 89.90	LS12
ATOM	44976	N	ALA	L	30	158.382	77.138	3.094	1.00 69.95	LS12
ATOM	44977	CA	ALA	L	30	158.331	76.986	4.539	1.00 69.95	LS12
ATOM	44978	CB	ALA	L	30	158.965	75.675	4.949	1.00 89.04	LS12
ATOM	44979	C	ALA	L	30	159.054	78.130	5.206	1.00 69.95	LS12
ATOM	44980	O	ALA	L	30	159.808	78.857	4.566	1.00 69.95	LS12
ATOM	44981	N	PRO	L	31	158.800	78.323	6.504	1.00 52.55	LS12
ATOM	44982	CD	PRO	L	31	157.629	77.753	7.190	1.00 67.77	LS12
ATOM	44983	CA	PRO	L	31	159.414	79.379	7.316	1.00 52.55	LS12
ATOM	44984	CB	PRO	L	31	158.473	79.493	8.517	1.00 67.77	LS12
ATOM	44985	CG	PRO	L	31	157.170	78.913	8.015	1.00 67.77	LS12
ATOM	44986	C	PRO	L	31	160.806	78.905	7.739	1.00 52.55	LS12
ATOM	44987	O	PRO	L	31	161.735	79.695	7.887	1.00 52.55	LS12
ATOM	44988	N	PHE	L	32	160.933	77.601	7.947	1.00 76.86	LS12
ATOM	44989	CA	PHE	L	32	162.197	77.005	8.343	1.00 76.86	LS12
ATOM	44990	CB	PHE	L	32	162.258	76.795	9.854	1.00 59.15	LS12
ATOM	44991	CG	PHE	L	32	162.109	78.054	10.637	1.00 59.15	LS12
ATOM	44992	CD1	PHE	L	32	163.181	78.932	10.778	1.00 59.15	LS12
ATOM	44993	CD2	PHE	L	32	160.874	78.399	11.186	1.00 59.15	LS12
ATOM	44994	CE1	PHE	L	32	163.026	80.149	11.446	1.00 59.15	LS12
ATOM	44995	CE2	PHE	L	32	160.705	79.601	11.849	1.00 59.15	LS12
ATOM	44996	CZ	PHE	L	32	161.785	80.484	11.983	1.00 59.15	LS12
ATOM	44997	C	PHE	L	32	162.250	75.658	7.670	1.00 76.86	LS12
ATOM	44998	O	PHE	L	32	161.287	75.225	7.031	1.00 76.86	LS12
ATOM	44999	N	ARG	L	33	163.382	74.992	7.823	1.00 72.86	LS12
ATOM	45000	CA	ARG	L	33	163.571	73.681	7.247	1.00 72.86	LS12
ATOM	45001	CB	ARG	L	33	163.770	73.782	5.740	1.00109.77	LS12
ATOM	45002	CG	ARG	L	33	163.971	72.445	5.083	1.00109.77	LS12
ATOM	45003	CD	ARG	L	33	162.931	72.198	4.020	1.00109.77	LS12
ATOM	45004	NE	ARG	L	33	161.570	72.248	4.538	1.00109.77	LS12
ATOM	45005	CZ	ARG	L	33	160.492	71.925	3.829	1.00109.77	LS12
ATOM	45006	NH1	ARG	L	33	160.611	71.524	2.568	1.00109.77	LS12
ATOM	45007	NH2	ARG	L	33	159.289	72.000	4.382	1.00109.77	LS12
ATOM	45008	C	ARG	L	33	164.821	73.161	7.906	1.00 72.86	LS12
ATOM	45009	O	ARG	L	33	165.755	73.925	8.154	1.00 72.86	LS12
ATOM	45010	N	ARG	L	34	164.842	71.870	8.211	1.00 65.82	LS12
ATOM	45011	CA	ARG	L	34	166.014	71.310	8.856	1.00 65.82	LS12
ATOM	45012	CB	ARG	L	34	165.616	70.438	10.031	1.00 97.37	LS12
ATOM	45013	CG	ARG	L	34	164.840	69.247	9.605	1.00 97.37	LS12
ATOM	45014	CD	ARG	L	34	165.086	68.111	10.539	1.00 97.37	LS12
ATOM	45015	NE	ARG	L	34	164.380	66.934	10.071	1.00 97.37	LS12
ATOM	45016	CZ	ARG	L	34	164.475	65.742	10.635	1.00 97.37	LS12
ATOM	45017	NH1	ARG	L	34	165.254	65.567	11.698	1.00 97.37	LS12
ATOM	45018	NH2	ARG	L	34	163.788	64.728	10.132	1.00 97.37	LS12
ATOM	45019	C	ARG	L	34	166.863	70.491	7.906	1.00 65.82	LS12
ATOM	45020	O	ARG	L	34	166.377	69.955	6.906	1.00 65.82	LS12
ATOM	45021	N	GLY	L	35	168.143	70.404	8.245	1.00102.50	LS12
ATOM	45022	CA	GLY	L	35	169.078	69.659	7.435	1.00102.50	LS12
ATOM	45023	C	GLY	L	35	170.158	69.004	8.269	1.00102.50	LS12
ATOM	45024	O	GLY	L	35	170.130	69.019	9.505	1.00102.50	LS12
ATOM	45025	N	VAL	L	36	171.116	68.414	7.570	1.00 73.57	LS12
ATOM	45026	CA	VAL	L	36	172.226	67.744	8.209	1.00 73.57	LS12

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ATOM	45027	CB	VAL	L	36	172.275	66.271	7.795	1.00	74.27	LS12
ATOM	45028	CG1	VAL	L	36	173.286	65.531	8.640	1.00	74.27	LS12
ATOM	45029	CG2	VAL	L	36	170.899	65.647	7.938	1.00	74.27	LS12
ATOM	45030	C	VAL	L	36	173.474	68.441	7.708	1.00	73.57	LS12
ATOM	45031	O	VAL	L	36	173.595	68.720	6.510	1.00	73.57	LS12
ATOM	45032	N	CYS	L	37	174.396	68.747	8.609	1.00	85.61	LS12
ATOM	45033	CA	CYS	L	37	175.617	69.408	8.185	1.00	85.61	LS12
ATOM	45034	CB	CYS	L	37	176.377	69.935	9.390	1.00	134.37	LS12
ATOM	45035	SG	CYS	L	37	175.490	71.245	10.207	1.00	134.37	LS12
ATOM	45036	C	CYS	L	37	176.483	68.431	7.407	1.00	85.61	LS12
ATOM	45037	O	CYS	L	37	176.479	67.229	7.679	1.00	85.61	LS12
ATOM	45038	N	THR	L	38	177.217	68.950	6.431	1.00	94.40	LS12
ATOM	45039	CA	THR	L	38	178.090	68.120	5.614	1.00	94.40	LS12
ATOM	45040	CB	THR	L	38	177.780	68.310	4.128	1.00	99.63	LS12
ATOM	45041	OG1	THR	L	38	176.487	67.763	3.849	1.00	99.63	LS12
ATOM	45042	CG2	THR	L	38	178.831	67.626	3.266	1.00	99.63	LS12
ATOM	45043	C	THR	L	38	179.532	68.508	5.863	1.00	94.40	LS12
ATOM	45044	O	THR	L	38	180.388	67.668	6.131	1.00	94.40	LS12
ATOM	45045	N	VAL	L	39	179.788	69.802	5.768	1.00	101.72	LS12
ATOM	45046	CA	VAL	L	39	181.116	70.338	5.978	1.00	101.72	LS12
ATOM	45047	CB	VAL	L	39	181.778	70.700	4.654	1.00	80.41	LS12
ATOM	45048	CG1	VAL	L	39	183.282	70.816	4.858	1.00	80.41	LS12
ATOM	45049	CG2	VAL	L	39	181.414	69.672	3.587	1.00	80.41	LS12
ATOM	45050	C	VAL	L	39	180.960	71.613	6.774	1.00	101.72	LS12
ATOM	45051	O	VAL	L	39	180.095	72.432	6.471	1.00	101.72	LS12
ATOM	45052	N	VAL	L	40	181.786	71.794	7.792	1.00	62.10	LS12
ATOM	45053	CA	VAL	L	40	181.682	73.004	8.580	1.00	62.10	LS12
ATOM	45054	CB	VAL	L	40	181.502	72.670	10.064	1.00	54.90	LS12
ATOM	45055	CG1	VAL	L	40	181.509	73.942	10.878	1.00	54.90	LS12
ATOM	45056	CG2	VAL	L	40	180.186	71.934	10.268	1.00	54.90	LS12
ATOM	45057	C	VAL	L	40	182.932	73.849	8.363	1.00	62.10	LS12
ATOM	45058	O	VAL	L	40	183.781	73.934	9.237	1.00	62.10	LS12
ATOM	45059	N	ARG	L	41	183.012	74.480	7.188	1.00	71.61	LS12
ATOM	45060	CA	ARG	L	41	184.144	75.308	6.757	1.00	71.61	LS12
ATOM	45061	CB	ARG	L	41	184.035	75.520	5.246	1.00	102.61	LS12
ATOM	45062	CG	ARG	L	41	185.251	76.113	4.579	1.00	102.61	LS12
ATOM	45063	CD	ARG	L	41	184.923	76.380	3.146	1.00	102.61	LS12
ATOM	45064	NE	ARG	L	41	184.436	75.159	2.511	1.00	102.61	LS12
ATOM	45065	CZ	ARG	L	41	183.464	75.114	1.600	1.00	102.61	LS12
ATOM	45066	NH1	ARG	L	41	182.854	76.229	1.203	1.00	102.61	LS12
ATOM	45067	NH2	ARG	L	41	183.102	73.947	1.078	1.00	102.61	LS12
ATOM	45068	C	ARG	L	41	184.317	76.667	7.456	1.00	71.61	LS12
ATOM	45069	O	ARG	L	41	183.844	76.883	8.573	1.00	71.61	LS12
ATOM	45070	N	THR	L	42	185.005	77.579	6.771	1.00	92.68	LS12
ATOM	45071	CA	THR	L	42	185.288	78.921	7.270	1.00	92.68	LS12
ATOM	45072	CB	THR	L	42	186.538	78.927	8.125	1.00	113.34	LS12
ATOM	45073	OG1	THR	L	42	186.459	77.868	9.081	1.00	113.34	LS12
ATOM	45074	CG2	THR	L	42	186.688	80.257	8.828	1.00	113.34	LS12
ATOM	45075	C	THR	L	42	185.572	79.842	6.097	1.00	92.68	LS12
ATOM	45076	O	THR	L	42	186.727	80.088	5.774	1.00	92.68	LS12
ATOM	45077	N	VAL	L	43	184.529	80.352	5.461	1.00	76.77	LS12
ATOM	45078	CA	VAL	L	43	184.704	81.239	4.320	1.00	76.77	LS12
ATOM	45079	CB	VAL	L	43	183.349	81.482	3.613	1.00	95.62	LS12
ATOM	45080	CG1	VAL	L	43	183.559	82.272	2.328	1.00	95.62	LS12
ATOM	45081	CG2	VAL	L	43	182.672	80.154	3.320	1.00	95.62	LS12
ATOM	45082	C	VAL	L	43	185.305	82.598	4.721	1.00	76.77	LS12
ATOM	45083	O	VAL	L	43	185.306	82.969	5.905	1.00	76.77	LS12
ATOM	45084	N	THR	L	44	185.838	83.325	3.737	1.00	86.64	LS12
ATOM	45085	CA	THR	L	44	186.398	84.655	3.982	1.00	86.64	LS12
ATOM	45086	CB	THR	L	44	187.884	84.772	3.488	1.00	76.24	LS12
ATOM	45087	OG1	THR	L	44	187.937	84.756	2.057	1.00	76.24	LS12
ATOM	45088	CG2	THR	L	44	188.715	83.617	4.024	1.00	76.24	LS12
ATOM	45089	C	THR	L	44	185.490	85.657	3.239	1.00	86.64	LS12
ATOM	45090	O	THR	L	44	184.942	85.334	2.181	1.00	86.64	LS12
ATOM	45091	N	PRO	L	45	185.309	86.874	3.793	1.00	73.83	LS12
ATOM	45092	CD	PRO	L	45	185.984	87.355	5.004	1.00	77.20	LS12
ATOM	45093	CA	PRO	L	45	184.474	87.943	3.230	1.00	73.83	LS12
ATOM	45094	CB	PRO	L	45	184.550	89.044	4.287	1.00	77.20	LS12
ATOM	45095	CG	PRO	L	45	184.994	88.344	5.515	1.00	77.20	LS12
ATOM	45096	C	PRO	L	45	184.958	88.459	1.881	1.00	73.83	LS12
ATOM	45097	O	PRO	L	45	185.945	87.965	1.330	1.00	73.83	LS12
ATOM	45098	N	LYS	L	46	184.274	89.471	1.356	1.00	64.03	LS12
ATOM	45099	CA	LYS	L	46	184.680	90.039	0.081	1.00	64.03	LS12
ATOM	45100	CB	LYS	L	46	183.662	89.680	-1.013	1.00	102.58	LS12
ATOM	45101	CG	LYS	L	46	182.354	90.464	-0.974	1.00	102.58	LS12
ATOM	45102	CD	LYS	L	46	181.466	90.091	-2.163	1.00	102.58	LS12
ATOM	45103	CE	LYS	L	46	180.167	90.901	-2.218	1.00	102.58	LS12

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ATOM	45104	NZ	LYS	L	46	180.406	92.324	-2.578	1.00102.58	LS12
ATOM	45105	C	LYS	L	46	184.909	91.560	0.099	1.00 64.03	LS12
ATOM	45106	O	LYS	L	46	185.103	92.186	1.149	1.00 64.03	LS12
ATOM	45107	N	LYS	L	47	184.881	92.137	-1.095	1.00108.90	LS12
ATOM	45108	CA	LYS	L	47	185.082	93.558	-1.278	1.00108.90	LS12
ATOM	45109	CB	LYS	L	47	183.727	94.270	-1.385	1.00139.94	LS12
ATOM	45110	CG	LYS	L	47	182.933	93.856	-2.615	1.00139.94	LS12
ATOM	45111	CD	LYS	L	47	181.944	94.927	-3.054	1.00139.94	LS12
ATOM	45112	CE	LYS	L	47	181.495	94.684	-4.492	1.00139.94	LS12
ATOM	45113	NZ	LYS	L	47	180.657	95.791	-5.031	1.00139.94	LS12
ATOM	45114	C	LYS	L	47	185.983	94.152	-0.200	1.00108.90	LS12
ATOM	45115	O	LYS	L	47	187.193	94.026	-0.309	1.00108.90	LS12
ATOM	45116	N	PRO	L	48	185.432	94.762	0.865	1.00126.64	LS12
ATOM	45117	CD	PRO	L	48	184.075	95.279	1.101	1.00 45.66	LS12
ATOM	45118	CA	PRO	L	48	186.362	95.317	1.859	1.00126.64	LS12
ATOM	45119	CB	PRO	L	48	185.729	96.655	2.192	1.00 45.66	LS12
ATOM	45120	CG	PRO	L	48	184.291	96.290	2.250	1.00 45.66	LS12
ATOM	45121	C	PRO	L	48	186.591	94.489	3.120	1.00126.64	LS12
ATOM	45122	O	PRO	L	48	187.726	94.198	3.498	1.00126.64	LS12
ATOM	45123	N	ASN	L	49	185.501	94.141	3.782	1.00 68.41	LS12
ATOM	45124	CA	ASN	L	49	185.561	93.367	5.003	1.00 68.41	LS12
ATOM	45125	CB	ASN	L	49	184.156	92.990	5.426	1.00 89.43	LS12
ATOM	45126	CG	ASN	L	49	183.361	94.179	5.846	1.00 89.43	LS12
ATOM	45127	OD1	ASN	L	49	182.172	94.073	6.131	1.00 89.43	LS12
ATOM	45128	ND2	ASN	L	49	184.015	95.336	5.897	1.00 89.43	LS12
ATOM	45129	C	ASN	L	49	186.401	92.106	4.938	1.00 68.41	LS12
ATOM	45130	O	ASN	L	49	186.422	91.418	3.916	1.00 68.41	LS12
ATOM	45131	N	SER	L	50	187.086	91.812	6.047	1.00 64.77	LS12
ATOM	45132	CA	SER	L	50	187.915	90.619	6.175	1.00 64.77	LS12
ATOM	45133	CB	SER	L	50	189.390	90.978	6.046	1.00119.89	LS12
ATOM	45134	OG	SER	L	50	190.196	89.840	6.307	1.00119.89	LS12
ATOM	45135	C	SER	L	50	187.666	89.950	7.529	1.00 64.77	LS12
ATOM	45136	O	SER	L	50	187.393	90.635	8.524	1.00 64.77	LS12
ATOM	45137	N	ALA	L	51	187.758	88.619	7.552	1.00 70.55	LS12
ATOM	45138	CA	ALA	L	51	187.554	87.807	8.758	1.00 70.55	LS12
ATOM	45139	CB	ALA	L	51	186.422	88.384	9.613	1.00 79.16	LS12
ATOM	45140	C	ALA	L	51	187.226	86.369	8.362	1.00 70.55	LS12
ATOM	45141	O	ALA	L	51	187.155	86.042	7.183	1.00 70.55	LS12
ATOM	45142	N	LEU	L	52	187.017	85.501	9.340	1.00 81.27	LS12
ATOM	45143	CA	LEU	L	52	186.703	84.118	9.019	1.00 81.27	LS12
ATOM	45144	CB	LEU	L	52	187.680	83.187	9.714	1.00 88.05	LS12
ATOM	45145	CG	LEU	L	52	189.141	83.606	9.617	1.00 88.05	LS12
ATOM	45146	CD1	LEU	L	52	189.988	82.536	10.283	1.00 88.05	LS12
ATOM	45147	CD2	LEU	L	52	189.545	83.805	8.160	1.00 88.05	LS12
ATOM	45148	C	LEU	L	52	185.294	83.776	9.454	1.00 81.27	LS12
ATOM	45149	O	LEU	L	52	185.072	83.374	10.599	1.00 81.27	LS12
ATOM	45150	N	ARG	L	53	184.338	83.935	8.542	1.00 81.43	LS12
ATOM	45151	CA	ARG	L	53	182.949	83.634	8.862	1.00 81.43	LS12
ATOM	45152	CB	ARG	L	53	182.012	84.270	7.822	1.00 72.72	LS12
ATOM	45153	CG	ARG	L	53	181.695	85.758	8.076	1.00 72.72	LS12
ATOM	45154	CD	ARG	L	53	182.975	86.564	8.231	1.00 72.72	LS12
ATOM	45155	NE	ARG	L	53	182.815	87.947	8.698	1.00 72.72	LS12
ATOM	45156	CZ	ARG	L	53	182.315	88.947	7.975	1.00 72.72	LS12
ATOM	45157	NH1	ARG	L	53	181.890	88.748	6.726	1.00 72.72	LS12
ATOM	45158	NH2	ARG	L	53	182.286	90.167	8.494	1.00 72.72	LS12
ATOM	45159	C	ARG	L	53	182.744	82.126	8.939	1.00 81.43	LS12
ATOM	45160	O	ARG	L	53	183.216	81.374	8.084	1.00 81.43	LS12
ATOM	45161	N	LYS	L	54	182.068	81.685	9.993	1.00 84.89	LS12
ATOM	45162	CA	LYS	L	54	181.795	80.264	10.177	1.00 84.89	LS12
ATOM	45163	CB	LYS	L	54	181.513	79.942	11.654	1.00 78.52	LS12
ATOM	45164	CG	LYS	L	54	182.752	79.988	12.573	1.00 78.52	LS12
ATOM	45165	CD	LYS	L	54	183.458	81.340	12.529	1.00 78.52	LS12
ATOM	45166	CE	LYS	L	54	184.752	81.310	13.305	1.00 78.52	LS12
ATOM	45167	NZ	LYS	L	54	185.522	82.572	13.115	1.00 78.52	LS12
ATOM	45168	C	LYS	L	54	180.595	79.904	9.313	1.00 84.89	LS12
ATOM	45169	O	LYS	L	54	179.522	80.503	9.423	1.00 84.89	LS12
ATOM	45170	N	VAL	L	55	180.790	78.915	8.450	1.00 74.49	LS12
ATOM	45171	CA	VAL	L	55	179.762	78.488	7.531	1.00 74.49	LS12
ATOM	45172	CB	VAL	L	55	180.212	78.878	6.121	1.00 71.05	LS12
ATOM	45173	CG1	VAL	L	55	179.137	78.575	5.116	1.00 71.05	LS12
ATOM	45174	CG2	VAL	L	55	180.540	80.361	6.099	1.00 71.05	LS12
ATOM	45175	C	VAL	L	55	179.489	76.985	7.648	1.00 74.49	LS12
ATOM	45176	O	VAL	L	55	180.145	76.291	8.415	1.00 74.49	LS12
ATOM	45177	N	ALA	L	56	178.516	76.484	6.895	1.00 76.50	LS12
ATOM	45178	CA	ALA	L	56	178.175	75.070	6.942	1.00 76.50	LS12
ATOM	45179	CB	ALA	L	56	177.389	74.789	8.198	1.00 43.83	LS12
ATOM	45180	C	ALA	L	56	177.364	74.611	5.737	1.00 76.50	LS12

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ATOM	45181	O	ALA	L	56	176.361	75.232	5.405	1.00	76.50	LS12
ATOM	45182	N	LYS	L	57	177.797	73.536	5.078	1.00	80.66	LS12
ATOM	45183	CA	LYS	L	57	177.044	72.994	3.949	1.00	80.66	LS12
ATOM	45184	CB	LYS	L	57	177.891	72.029	3.124	1.00	114.44	LS12
ATOM	45185	CG	LYS	L	57	178.943	72.691	2.273	1.00	114.44	LS12
ATOM	45186	CD	LYS	L	57	178.334	73.480	1.121	1.00	114.44	LS12
ATOM	45187	CE	LYS	L	57	179.441	74.053	0.233	1.00	114.44	LS12
ATOM	45188	NZ	LYS	L	57	178.947	74.838	-0.936	1.00	114.44	LS12
ATOM	45189	C	LYS	L	57	175.922	72.219	4.619	1.00	80.66	LS12
ATOM	45190	O	LYS	L	57	176.153	71.560	5.641	1.00	80.66	LS12
ATOM	45191	N	VAL	L	58	174.714	72.294	4.062	1.00	62.74	LS12
ATOM	45192	CA	VAL	L	58	173.573	71.598	4.653	1.00	62.74	LS12
ATOM	45193	CB	VAL	L	58	172.619	72.592	5.344	1.00	81.86	LS12
ATOM	45194	CG1	VAL	L	58	171.527	71.831	6.085	1.00	81.86	LS12
ATOM	45195	CG2	VAL	L	58	173.393	73.490	6.293	1.00	81.86	LS12
ATOM	45196	C	VAL	L	58	172.745	70.787	3.663	1.00	62.74	LS12
ATOM	45197	O	VAL	L	58	172.459	71.242	2.553	1.00	62.74	LS12
ATOM	45198	N	ARG	L	59	172.369	69.580	4.076	1.00	74.62	LS12
ATOM	45199	CA	ARG	L	59	171.534	68.702	3.264	1.00	74.62	LS12
ATOM	45200	CB	ARG	L	59	171.934	67.240	3.479	1.00	136.87	LS12
ATOM	45201	CG	ARG	L	59	171.238	66.237	2.565	1.00	136.87	LS12
ATOM	45202	CD	ARG	L	59	171.939	66.139	1.223	1.00	136.87	LS12
ATOM	45203	NE	ARG	L	59	173.337	65.747	1.386	1.00	136.87	LS12
ATOM	45204	CZ	ARG	L	59	174.216	65.642	0.391	1.00	136.87	LS12
ATOM	45205	NH1	ARG	L	59	173.850	65.899	-0.859	1.00	136.87	LS12
ATOM	45206	NH2	ARG	L	59	175.469	65.286	0.646	1.00	136.87	LS12
ATOM	45207	C	ARG	L	59	170.118	68.933	3.800	1.00	74.62	LS12
ATOM	45208	O	ARG	L	59	169.777	68.459	4.883	1.00	74.62	LS12
ATOM	45209	N	LEU	L	60	169.304	69.674	3.055	1.00	76.82	LS12
ATOM	45210	CA	LEU	L	60	167.932	69.979	3.473	1.00	76.82	LS12
ATOM	45211	CB	LEU	L	60	167.381	71.170	2.678	1.00	70.54	LS12
ATOM	45212	CG	LEU	L	60	167.752	72.589	3.098	1.00	70.54	LS12
ATOM	45213	CD1	LEU	L	60	167.236	72.825	4.500	1.00	70.54	LS12
ATOM	45214	CD2	LEU	L	60	169.247	72.787	3.033	1.00	70.54	LS12
ATOM	45215	C	LEU	L	60	166.947	68.827	3.328	1.00	76.82	LS12
ATOM	45216	O	LEU	L	60	167.056	68.016	2.412	1.00	76.82	LS12
ATOM	45217	N	THR	L	61	165.977	68.769	4.236	1.00	85.92	LS12
ATOM	45218	CA	THR	L	61	164.947	67.739	4.175	1.00	85.92	LS12
ATOM	45219	CB	THR	L	61	163.979	67.795	5.384	1.00	121.06	LS12
ATOM	45220	OG1	THR	L	61	163.492	69.133	5.551	1.00	121.06	LS12
ATOM	45221	CG2	THR	L	61	164.671	67.333	6.656	1.00	121.06	LS12
ATOM	45222	C	THR	L	61	164.152	68.048	2.924	1.00	85.92	LS12
ATOM	45223	O	THR	L	61	163.445	67.193	2.400	1.00	85.92	LS12
ATOM	45224	N	SER	L	62	164.280	69.291	2.461	1.00	80.44	LS12
ATOM	45225	CA	SER	L	62	163.590	69.762	1.265	1.00	80.44	LS12
ATOM	45226	CB	SER	L	62	163.620	71.294	1.183	1.00	68.42	LS12
ATOM	45227	OG	SER	L	62	164.940	71.814	1.135	1.00	68.42	LS12
ATOM	45228	C	SER	L	62	164.227	69.187	0.018	1.00	80.44	LS12
ATOM	45229	O	SER	L	62	163.687	69.316	-1.073	1.00	80.44	LS12
ATOM	45230	N	GLY	L	63	165.382	68.558	0.187	1.00	93.20	LS12
ATOM	45231	CA	GLY	L	63	166.064	67.969	-0.943	1.00	93.20	LS12
ATOM	45232	C	GLY	L	63	167.151	68.858	-1.500	1.00	93.20	LS12
ATOM	45233	O	GLY	L	63	167.771	68.515	-2.501	1.00	93.20	LS12
ATOM	45234	N	TYR	L	64	167.387	70.002	-0.870	1.00	105.83	LS12
ATOM	45235	CA	TYR	L	64	168.430	70.906	-1.340	1.00	105.83	LS12
ATOM	45236	CB	TYR	L	64	167.918	72.346	-1.382	1.00	119.85	LS12
ATOM	45237	CG	TYR	L	64	166.905	72.599	-2.469	1.00	119.85	LS12
ATOM	45238	CD1	TYR	L	64	165.693	71.919	-2.484	1.00	119.85	LS12
ATOM	45239	CE1	TYR	L	64	164.748	72.156	-3.479	1.00	119.85	LS12
ATOM	45240	CD2	TYR	L	64	167.155	73.528	-3.481	1.00	119.85	LS12
ATOM	45241	CE2	TYR	L	64	166.216	73.776	-4.484	1.00	119.85	LS12
ATOM	45242	CZ	TYR	L	64	165.012	73.085	-4.476	1.00	119.85	LS12
ATOM	45243	OH	TYR	L	64	164.064	73.322	-5.449	1.00	119.85	LS12
ATOM	45244	C	TYR	L	64	169.672	70.836	-0.461	1.00	105.83	LS12
ATOM	45245	O	TYR	L	64	169.584	70.602	0.743	1.00	105.83	LS12
ATOM	45246	N	GLU	L	65	170.831	71.031	-1.078	1.00	78.31	LS12
ATOM	45247	CA	GLU	L	65	172.106	71.005	-0.366	1.00	78.31	LS12
ATOM	45248	CB	GLU	L	65	173.098	70.088	-1.090	1.00	168.50	LS12
ATOM	45249	CG	GLU	L	65	172.723	68.596	-1.122	1.00	168.50	LS12
ATOM	45250	CD	GLU	L	65	171.457	68.282	-1.922	1.00	168.50	LS12
ATOM	45251	OE1	GLU	L	65	171.354	68.713	-3.092	1.00	168.50	LS12
ATOM	45252	OE2	GLU	L	65	170.569	67.586	-1.381	1.00	168.50	LS12
ATOM	45253	C	GLU	L	65	172.611	72.441	-0.387	1.00	78.31	LS12
ATOM	45254	O	GLU	L	65	173.143	72.898	-1.397	1.00	78.31	LS12
ATOM	45255	N	VAL	L	66	172.450	73.162	0.715	1.00	74.64	LS12
ATOM	45256	CA	VAL	L	66	172.880	74.549	0.713	1.00	74.64	LS12
ATOM	45257	CB	VAL	L	66	171.665	75.478	0.561	1.00	88.33	LS12

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ATOM	45258	CG1	VAL	L	66	170.935	75.146	-0.726	1.00	88.33	LS12
ATOM	45259	CG2	VAL	L	66	170.737	75.327	1.744	1.00	88.33	LS12
ATOM	45260	C	VAL	L	66	173.729	75.042	1.878	1.00	74.64	LS12
ATOM	45261	O	VAL	L	66	173.775	74.432	2.947	1.00	74.64	LS12
ATOM	45262	N	THR	L	67	174.395	76.169	1.637	1.00	85.78	LS12
ATOM	45263	CA	THR	L	67	175.268	76.814	2.607	1.00	85.78	LS12
ATOM	45264	CB	THR	L	67	176.289	77.690	1.915	1.00	86.10	LS12
ATOM	45265	OG1	THR	L	67	177.164	76.875	1.133	1.00	86.10	LS12
ATOM	45266	CG2	THR	L	67	177.078	78.472	2.935	1.00	86.10	LS12
ATOM	45267	C	THR	L	67	174.500	77.706	3.564	1.00	85.78	LS12
ATOM	45268	O	THR	L	67	173.623	78.468	3.150	1.00	85.78	LS12
ATOM	45269	N	ALA	L	68	174.871	77.633	4.839	1.00	88.22	LS12
ATOM	45270	CA	ALA	L	68	174.223	78.411	5.884	1.00	88.22	LS12
ATOM	45271	CB	ALA	L	68	173.386	77.503	6.756	1.00	28.85	LS12
ATOM	45272	C	ALA	L	68	175.220	79.142	6.756	1.00	88.22	LS12
ATOM	45273	O	ALA	L	68	176.313	78.647	7.027	1.00	88.22	LS12
ATOM	45274	N	TYR	L	69	174.831	80.323	7.210	1.00	69.81	LS12
ATOM	45275	CA	TYR	L	69	175.691	81.091	8.082	1.00	69.81	LS12
ATOM	45276	CB	TYR	L	69	175.363	82.569	8.003	1.00	71.96	LS12
ATOM	45277	CG	TYR	L	69	176.345	83.386	8.776	1.00	71.96	LS12
ATOM	45278	CD1	TYR	L	69	177.639	83.563	8.303	1.00	71.96	LS12
ATOM	45279	CE1	TYR	L	69	178.584	84.275	9.031	1.00	71.96	LS12
ATOM	45280	CD2	TYR	L	69	176.010	83.943	10.002	1.00	71.96	LS12
ATOM	45281	CE2	TYR	L	69	176.948	84.662	10.744	1.00	71.96	LS12
ATOM	45282	CZ	TYR	L	69	178.234	84.821	10.246	1.00	71.96	LS12
ATOM	45283	OH	TYR	L	69	179.179	85.523	10.947	1.00	71.96	LS12
ATOM	45284	C	TYR	L	69	175.437	80.612	9.501	1.00	69.81	LS12
ATOM	45285	O	TYR	L	69	174.338	80.140	9.822	1.00	69.81	LS12
ATOM	45286	N	ILE	L	70	176.456	80.719	10.346	1.00	71.97	LS12
ATOM	45287	CA	ILE	L	70	176.322	80.315	11.739	1.00	71.97	LS12
ATOM	45288	CB	ILE	L	70	177.363	79.246	12.153	1.00	70.82	LS12
ATOM	45289	CG2	ILE	L	70	176.936	78.591	13.458	1.00	70.82	LS12
ATOM	45290	CG1	ILE	L	70	177.479	78.170	11.070	1.00	70.82	LS12
ATOM	45291	CD1	ILE	L	70	178.609	77.179	11.304	1.00	70.82	LS12
ATOM	45292	C	ILE	L	70	176.555	81.565	12.566	1.00	71.97	LS12
ATOM	45293	O	ILE	L	70	177.687	81.902	12.906	1.00	71.97	LS12
ATOM	45294	N	PRO	L	71	175.483	82.287	12.881	1.00	82.14	LS12
ATOM	45295	CD	PRO	L	71	174.061	81.994	12.638	1.00	84.06	LS12
ATOM	45296	CA	PRO	L	71	175.649	83.502	13.677	1.00	82.14	LS12
ATOM	45297	CB	PRO	L	71	174.249	84.099	13.681	1.00	84.06	LS12
ATOM	45298	CG	PRO	L	71	173.376	82.866	13.654	1.00	84.06	LS12
ATOM	45299	C	PRO	L	71	176.129	83.134	15.072	1.00	82.14	LS12
ATOM	45300	O	PRO	L	71	176.006	81.979	15.492	1.00	82.14	LS12
ATOM	45301	N	GLY	L	72	176.691	84.106	15.781	1.00	83.58	LS12
ATOM	45302	CA	GLY	L	72	177.155	83.834	17.126	1.00	83.58	LS12
ATOM	45303	C	GLY	L	72	178.655	83.816	17.300	1.00	83.58	LS12
ATOM	45304	O	GLY	L	72	179.404	83.641	16.339	1.00	83.58	LS12
ATOM	45305	N	GLU	L	73	179.084	83.990	18.546	1.00	119.35	LS12
ATOM	45306	CA	GLU	L	73	180.494	84.003	18.902	1.00	119.35	LS12
ATOM	45307	CB	GLU	L	73	180.645	84.358	20.377	1.00	122.41	LS12
ATOM	45308	CG	GLU	L	73	180.264	85.796	20.694	1.00	122.41	LS12
ATOM	45309	CD	GLU	L	73	181.151	86.804	19.980	1.00	122.41	LS12
ATOM	45310	OE1	GLU	L	73	180.986	88.020	20.218	1.00	122.41	LS12
ATOM	45311	OE2	GLU	L	73	182.014	86.381	19.182	1.00	122.41	LS12
ATOM	45312	C	GLU	L	73	181.193	82.682	18.609	1.00	119.35	LS12
ATOM	45313	O	GLU	L	73	182.231	82.665	17.955	1.00	119.35	LS12
ATOM	45314	N	GLY	L	74	180.638	81.582	19.108	1.00	75.88	LS12
ATOM	45315	CA	GLY	L	74	181.225	80.275	18.856	1.00	75.88	LS12
ATOM	45316	C	GLY	L	74	180.121	79.253	18.679	1.00	75.88	LS12
ATOM	45317	O	GLY	L	74	179.027	79.447	19.211	1.00	75.88	LS12
ATOM	45318	N	HIS	L	75	180.373	78.176	17.941	1.00	85.86	LS12
ATOM	45319	CA	HIS	L	75	179.339	77.159	17.751	1.00	85.86	LS12
ATOM	45320	CB	HIS	L	75	178.857	77.135	16.306	1.00	85.18	LS12
ATOM	45321	CG	HIS	L	75	179.896	76.674	15.337	1.00	85.18	LS12
ATOM	45322	CD2	HIS	L	75	180.179	75.440	14.858	1.00	85.18	LS12
ATOM	45323	ND1	HIS	L	75	180.821	77.528	14.776	1.00	85.18	LS12
ATOM	45324	CE1	HIS	L	75	181.630	76.840	13.991	1.00	85.18	LS12
ATOM	45325	NE2	HIS	L	75	181.263	75.570	14.024	1.00	85.18	LS12
ATOM	45326	C	HIS	L	75	179.808	75.763	18.130	1.00	85.86	LS12
ATOM	45327	O	HIS	L	75	180.892	75.585	18.677	1.00	85.86	LS12
ATOM	45328	N	ASN	L	76	178.992	74.766	17.816	1.00	65.10	LS12
ATOM	45329	CA	ASN	L	76	179.316	73.386	18.144	1.00	65.10	LS12
ATOM	45330	CB	ASN	L	76	178.562	72.980	19.411	1.00	72.88	LS12
ATOM	45331	CG	ASN	L	76	177.044	73.012	19.222	1.00	72.88	LS12
ATOM	45332	OD1	ASN	L	76	176.476	74.029	18.830	1.00	72.88	LS12
ATOM	45333	ND2	ASN	L	76	176.387	71.894	19.503	1.00	72.88	LS12
ATOM	45334	C	ASN	L	76	178.899	72.485	16.992	1.00	65.10	LS12

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ATOM	45335	O	ASN	L	76	178.586	71.316	17.190	1.00	65.10	LS12
ATOM	45336	N	LEU	L	77	178.894	73.028	15.785	1.00	75.79	LS12
ATOM	45337	CA	LEU	L	77	178.479	72.251	14.629	1.00	75.79	LS12
ATOM	45338	CB	LEU	L	77	177.975	73.192	13.538	1.00	69.50	LS12
ATOM	45339	CG	LEU	L	77	176.911	74.190	13.998	1.00	69.50	LS12
ATOM	45340	CD1	LEU	L	77	176.594	75.160	12.866	1.00	69.50	LS12
ATOM	45341	CD2	LEU	L	77	175.664	73.435	14.468	1.00	69.50	LS12
ATOM	45342	C	LEU	L	77	179.602	71.376	14.082	1.00	75.79	LS12
ATOM	45343	O	LEU	L	77	180.721	71.853	13.878	1.00	75.79	LS12
ATOM	45344	N	GLN	L	78	179.287	70.098	13.848	1.00	87.12	LS12
ATOM	45345	CA	GLN	L	78	180.245	69.120	13.321	1.00	87.12	LS12
ATOM	45346	CB	GLN	L	78	180.520	68.013	14.340	1.00	103.03	LS12
ATOM	45347	CG	GLN	L	78	181.046	68.477	15.676	1.00	103.03	LS12
ATOM	45348	CD	GLN	L	78	181.350	67.313	16.597	1.00	103.03	LS12
ATOM	45349	OE1	GLN	L	78	180.551	66.378	16.716	1.00	103.03	LS12
ATOM	45350	NE2	GLN	L	78	182.505	67.364	17.260	1.00	103.03	LS12
ATOM	45351	C	GLN	L	78	179.756	68.454	12.039	1.00	87.12	LS12
ATOM	45352	O	GLN	L	78	178.676	68.753	11.534	1.00	87.12	LS12
ATOM	45353	N	GLU	L	79	180.554	67.512	11.549	1.00	128.60	LS12
ATOM	45354	CA	GLU	L	79	180.264	66.795	10.318	1.00	128.60	LS12
ATOM	45355	CB	GLU	L	79	181.332	65.742	10.062	1.00	167.69	LS12
ATOM	45356	CG	GLU	L	79	182.552	66.269	9.366	1.00	167.69	LS12
ATOM	45357	CD	GLU	L	79	183.256	65.184	8.598	1.00	167.69	LS12
ATOM	45358	OE1	GLU	L	79	182.611	64.591	7.705	1.00	167.69	LS12
ATOM	45359	OE2	GLU	L	79	184.442	64.923	8.888	1.00	167.69	LS12
ATOM	45360	C	GLU	L	79	178.911	66.138	10.117	1.00	128.60	LS12
ATOM	45361	O	GLU	L	79	178.557	65.852	8.976	1.00	128.60	LS12
ATOM	45362	N	HIS	L	80	178.153	65.871	11.177	1.00	94.06	LS12
ATOM	45363	CA	HIS	L	80	176.851	65.231	10.965	1.00	94.06	LS12
ATOM	45364	CB	HIS	L	80	176.971	63.716	11.101	1.00	151.06	LS12
ATOM	45365	CG	HIS	L	80	177.834	63.105	10.050	1.00	151.06	LS12
ATOM	45366	CD2	HIS	L	80	178.978	62.388	10.139	1.00	151.06	LS12
ATOM	45367	ND1	HIS	L	80	177.601	63.294	8.706	1.00	151.06	LS12
ATOM	45368	CE1	HIS	L	80	178.569	62.725	8.010	1.00	151.06	LS12
ATOM	45369	NE2	HIS	L	80	179.418	62.169	8.855	1.00	151.06	LS12
ATOM	45370	C	HIS	L	80	175.729	65.722	11.843	1.00	94.06	LS12
ATOM	45371	O	HIS	L	80	174.719	65.029	12.014	1.00	94.06	LS12
ATOM	45372	N	SER	L	81	175.895	66.927	12.381	1.00	88.29	LS12
ATOM	45373	CA	SER	L	81	174.881	67.499	13.250	1.00	88.29	LS12
ATOM	45374	CB	SER	L	81	175.492	68.609	14.129	1.00	81.79	LS12
ATOM	45375	OG	SER	L	81	176.441	69.402	13.430	1.00	81.79	LS12
ATOM	45376	C	SER	L	81	173.661	68.008	12.486	1.00	88.29	LS12
ATOM	45377	O	SER	L	81	173.757	68.493	11.352	1.00	88.29	LS12
ATOM	45378	N	VAL	L	82	172.507	67.855	13.123	1.00	79.34	LS12
ATOM	45379	CA	VAL	L	82	171.232	68.282	12.574	1.00	79.34	LS12
ATOM	45380	CB	VAL	L	82	170.121	67.379	13.088	1.00	57.01	LS12
ATOM	45381	CG1	VAL	L	82	168.771	68.038	12.926	1.00	57.01	LS12
ATOM	45382	CG2	VAL	L	82	170.164	66.088	12.327	1.00	57.01	LS12
ATOM	45383	C	VAL	L	82	170.958	69.722	12.982	1.00	79.34	LS12
ATOM	45384	O	VAL	L	82	171.190	70.110	14.129	1.00	79.34	LS12
ATOM	45385	N	VAL	L	83	170.441	70.511	12.050	1.00	87.40	LS12
ATOM	45386	CA	VAL	L	83	170.191	71.913	12.333	1.00	87.40	LS12
ATOM	45387	CB	VAL	L	83	171.434	72.725	11.876	1.00	80.80	LS12
ATOM	45388	CG1	VAL	L	83	171.658	72.534	10.379	1.00	80.80	LS12
ATOM	45389	CG2	VAL	L	83	171.286	74.184	12.245	1.00	80.80	LS12
ATOM	45390	C	VAL	L	83	168.901	72.444	11.680	1.00	87.40	LS12
ATOM	45391	O	VAL	L	83	168.182	71.699	11.010	1.00	87.40	LS12
ATOM	45392	N	LEU	L	84	168.602	73.726	11.897	1.00	79.54	LS12
ATOM	45393	CA	LEU	L	84	167.413	74.359	11.325	1.00	79.54	LS12
ATOM	45394	CB	LEU	L	84	166.404	74.671	12.435	1.00	65.47	LS12
ATOM	45395	CG	LEU	L	84	165.004	75.142	12.027	1.00	65.47	LS12
ATOM	45396	CD1	LEU	L	84	164.249	74.028	11.310	1.00	65.47	LS12
ATOM	45397	CD2	LEU	L	84	164.244	75.573	13.274	1.00	65.47	LS12
ATOM	45398	C	LEU	L	84	167.775	75.651	10.577	1.00	79.54	LS12
ATOM	45399	O	LEU	L	84	168.253	76.612	11.178	1.00	79.54	LS12
ATOM	45400	N	ILE	L	85	167.548	75.656	9.264	1.00	63.24	LS12
ATOM	45401	CA	ILE	L	85	167.823	76.811	8.400	1.00	63.24	LS12
ATOM	45402	CB	ILE	L	85	167.975	76.362	6.958	1.00	84.43	LS12
ATOM	45403	CG2	ILE	L	85	168.048	77.544	6.042	1.00	84.43	LS12
ATOM	45404	CG1	ILE	L	85	169.226	75.522	6.815	1.00	84.43	LS12
ATOM	45405	CD1	ILE	L	85	169.368	74.984	5.418	1.00	84.43	LS12
ATOM	45406	C	ILE	L	85	166.664	77.818	8.465	1.00	63.24	LS12
ATOM	45407	O	ILE	L	85	165.491	77.422	8.381	1.00	63.24	LS12
ATOM	45408	N	ARG	L	86	166.978	79.113	8.576	1.00	70.19	LS12
ATOM	45409	CA	ARG	L	86	165.916	80.104	8.700	1.00	70.19	LS12
ATOM	45410	CB	ARG	L	86	165.943	80.759	10.074	1.00	75.65	LS12
ATOM	45411	CG	ARG	L	86	166.922	81.902	10.180	1.00	75.65	LS12

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ATOM	45412	CD	ARG	L	86	166.601	82.777	11.376	1.00	75.65	LS12
ATOM	45413	NE	ARG	L	86	167.747	83.593	11.759	1.00	75.65	LS12
ATOM	45414	CZ	ARG	L	86	168.344	84.469	10.953	1.00	75.65	LS12
ATOM	45415	NH1	ARG	L	86	167.897	84.650	9.711	1.00	75.65	LS12
ATOM	45416	NH2	ARG	L	86	169.404	85.150	11.382	1.00	75.65	LS12
ATOM	45417	C	ARG	L	86	165.818	81.225	7.703	1.00	70.19	LS12
ATOM	45418	O	ARG	L	86	164.979	82.107	7.877	1.00	70.19	LS12
ATOM	45419	N	GLY	L	87	166.653	81.241	6.678	1.00	54.01	LS12
ATOM	45420	CA	GLY	L	87	166.516	82.337	5.730	1.00	54.01	LS12
ATOM	45421	C	GLY	L	87	167.134	83.644	6.216	1.00	54.01	LS12
ATOM	45422	O	GLY	L	87	166.956	84.077	7.367	1.00	54.01	LS12
ATOM	45423	N	GLY	L	88	167.862	84.282	5.306	1.00	71.50	LS12
ATOM	45424	CA	GLY	L	88	168.566	85.510	5.612	1.00	71.50	LS12
ATOM	45425	C	GLY	L	88	169.932	85.372	4.962	1.00	71.50	LS12
ATOM	45426	O	GLY	L	88	170.711	84.469	5.280	1.00	71.50	LS12
ATOM	45427	N	ARG	L	89	170.222	86.256	4.022	1.00	66.89	LS12
ATOM	45428	CA	ARG	L	89	171.491	86.200	3.339	1.00	66.89	LS12
ATOM	45429	CB	ARG	L	89	171.359	86.852	1.963	1.00	106.32	LS12
ATOM	45430	CG	ARG	L	89	170.340	86.135	1.087	1.00	106.32	LS12
ATOM	45431	CD	ARG	L	89	170.493	86.482	-0.395	1.00	106.32	LS12
ATOM	45432	NE	ARG	L	89	169.646	85.646	-1.254	1.00	106.32	LS12
ATOM	45433	CZ	ARG	L	89	169.700	85.629	-2.585	1.00	106.32	LS12
ATOM	45434	NH1	ARG	L	89	170.564	86.401	-3.233	1.00	106.32	LS12
ATOM	45435	NH2	ARG	L	89	168.887	84.834	-3.272	1.00	106.32	LS12
ATOM	45436	C	ARG	L	89	172.572	86.870	4.178	1.00	66.89	LS12
ATOM	45437	O	ARG	L	89	172.371	87.142	5.368	1.00	66.89	LS12
ATOM	45438	N	VAL	L	90	173.722	87.101	3.548	1.00	96.07	LS12
ATOM	45439	CA	VAL	L	90	174.878	87.742	4.170	1.00	96.07	LS12
ATOM	45440	CB	VAL	L	90	175.811	86.699	4.784	1.00	56.22	LS12
ATOM	45441	CG1	VAL	L	90	177.009	87.385	5.406	1.00	56.22	LS12
ATOM	45442	CG2	VAL	L	90	175.062	85.888	5.816	1.00	56.22	LS12
ATOM	45443	C	VAL	L	90	175.636	88.488	3.073	1.00	96.07	LS12
ATOM	45444	O	VAL	L	90	176.230	87.860	2.201	1.00	96.07	LS12
ATOM	45445	N	LYS	L	91	175.615	89.819	3.119	1.00	89.02	LS12
ATOM	45446	CA	LYS	L	91	176.270	90.649	2.105	1.00	89.02	LS12
ATOM	45447	CB	LYS	L	91	176.077	92.131	2.446	1.00	104.19	LS12
ATOM	45448	CG	LYS	L	91	176.176	93.082	1.261	1.00	104.19	LS12
ATOM	45449	CD	LYS	L	91	174.893	93.048	0.438	1.00	104.19	LS12
ATOM	45450	CE	LYS	L	91	174.902	94.065	-0.717	1.00	104.19	LS12
ATOM	45451	NZ	LYS	L	91	173.564	94.201	-1.404	1.00	104.19	LS12
ATOM	45452	C	LYS	L	91	177.768	90.370	1.904	1.00	89.02	LS12
ATOM	45453	O	LYS	L	91	178.317	90.681	0.847	1.00	89.02	LS12
ATOM	45454	N	ASP	L	92	178.428	89.786	2.902	1.00	72.09	LS12
ATOM	45455	CA	ASP	L	92	179.859	89.498	2.809	1.00	72.09	LS12
ATOM	45456	CB	ASP	L	92	180.518	89.686	4.164	1.00	97.34	LS12
ATOM	45457	CG	ASP	L	92	180.945	91.105	4.387	1.00	97.34	LS12
ATOM	45458	OD1	ASP	L	92	180.609	91.956	3.528	1.00	97.34	LS12
ATOM	45459	OD2	ASP	L	92	181.614	91.368	5.409	1.00	97.34	LS12
ATOM	45460	C	ASP	L	92	180.251	88.142	2.275	1.00	72.09	LS12
ATOM	45461	O	ASP	L	92	181.404	87.941	1.908	1.00	72.09	LS12
ATOM	45462	N	LEU	L	93	179.300	87.215	2.232	1.00	103.65	LS12
ATOM	45463	CA	LEU	L	93	179.563	85.863	1.750	1.00	103.65	LS12
ATOM	45464	CB	LEU	L	93	179.406	84.859	2.887	1.00	74.70	LS12
ATOM	45465	CG	LEU	L	93	180.242	85.142	4.128	1.00	74.70	LS12
ATOM	45466	CD1	LEU	L	93	179.843	84.191	5.242	1.00	74.70	LS12
ATOM	45467	CD2	LEU	L	93	181.714	85.003	3.784	1.00	74.70	LS12
ATOM	45468	C	LEU	L	93	178.646	85.445	0.615	1.00	103.65	LS12
ATOM	45469	O	LEU	L	93	177.505	85.033	0.845	1.00	103.65	LS12
ATOM	45470	N	PRO	L	94	179.127	85.548	-0.629	1.00	89.52	LS12
ATOM	45471	CD	PRO	L	94	180.391	86.111	-1.125	1.00	135.63	LS12
ATOM	45472	CA	PRO	L	94	178.268	85.143	-1.738	1.00	89.52	LS12
ATOM	45473	CB	PRO	L	94	179.107	85.483	-2.967	1.00	135.63	LS12
ATOM	45474	CG	PRO	L	94	179.988	86.591	-2.492	1.00	135.63	LS12
ATOM	45475	C	PRO	L	94	178.048	83.638	-1.597	1.00	89.52	LS12
ATOM	45476	O	PRO	L	94	178.997	82.890	-1.339	1.00	89.52	LS12
ATOM	45477	N	GLY	L	95	176.804	83.195	-1.741	1.00	104.77	LS12
ATOM	45478	CA	GLY	L	95	176.531	81.773	-1.634	1.00	104.77	LS12
ATOM	45479	C	GLY	L	95	175.866	81.346	-0.341	1.00	104.77	LS12
ATOM	45480	O	GLY	L	95	175.561	80.171	-0.138	1.00	104.77	LS12
ATOM	45481	N	VAL	L	96	175.644	82.295	0.551	1.00	94.61	LS12
ATOM	45482	CA	VAL	L	96	174.996	81.966	1.802	1.00	94.61	LS12
ATOM	45483	CB	VAL	L	96	175.849	82.414	2.994	1.00	71.99	LS12
ATOM	45484	CG1	VAL	L	96	175.460	81.619	4.237	1.00	71.99	LS12
ATOM	45485	CG2	VAL	L	96	177.325	82.235	2.667	1.00	71.99	LS12
ATOM	45486	C	VAL	L	96	173.679	82.717	1.797	1.00	94.61	LS12
ATOM	45487	O	VAL	L	96	173.662	83.953	1.834	1.00	94.61	LS12
ATOM	45488	N	ARG	L	97	172.579	81.971	1.727	1.00	76.90	LS12

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ATOM	45489	CA	ARG	L	97	171.257	82.580	1.709	1.00	76.90	LS12
ATOM	45490	CB	ARG	L	97	170.424	82.030	0.556	1.00	102.76	LS12
ATOM	45491	CG	ARG	L	97	170.958	82.430	-0.788	1.00	102.76	LS12
ATOM	45492	CD	ARG	L	97	170.089	81.936	-1.916	1.00	102.76	LS12
ATOM	45493	NE	ARG	L	97	170.678	82.298	-3.200	1.00	102.76	LS12
ATOM	45494	CZ	ARG	L	97	170.175	81.953	-4.378	1.00	102.76	LS12
ATOM	45495	NH1	ARG	L	97	169.062	81.231	-4.440	1.00	102.76	LS12
ATOM	45496	NH2	ARG	L	97	170.787	82.332	-5.493	1.00	102.76	LS12
ATOM	45497	C	ARG	L	97	170.486	82.394	2.992	1.00	76.90	LS12
ATOM	45498	O	ARG	L	97	169.482	83.057	3.206	1.00	76.90	LS12
ATOM	45499	N	TYR	L	98	170.950	81.512	3.860	1.00	64.53	LS12
ATOM	45500	CA	TYR	L	98	170.216	81.291	5.086	1.00	64.53	LS12
ATOM	45501	CB	TYR	L	98	169.445	79.988	4.970	1.00	79.29	LS12
ATOM	45502	CG	TYR	L	98	169.056	79.646	3.554	1.00	79.29	LS12
ATOM	45503	CD1	TYR	L	98	169.998	79.165	2.649	1.00	79.29	LS12
ATOM	45504	CE1	TYR	L	98	169.646	78.853	1.333	1.00	79.29	LS12
ATOM	45505	CD2	TYR	L	98	167.747	79.813	3.112	1.00	79.29	LS12
ATOM	45506	CE2	TYR	L	98	167.381	79.507	1.802	1.00	79.29	LS12
ATOM	45507	CZ	TYR	L	98	168.330	79.026	0.913	1.00	79.29	LS12
ATOM	45508	OH	TYR	L	98	167.957	78.713	-0.388	1.00	79.29	LS12
ATOM	45509	C	TYR	L	98	171.078	81.262	6.341	1.00	64.53	LS12
ATOM	45510	O	TYR	L	98	172.263	80.940	6.291	1.00	64.53	LS12
ATOM	45511	N	HIS	L	99	170.479	81.614	7.472	1.00	66.14	LS12
ATOM	45512	CA	HIS	L	99	171.192	81.583	8.734	1.00	66.14	LS12
ATOM	45513	CB	HIS	L	99	170.822	82.790	9.596	1.00	80.75	LS12
ATOM	45514	CG	HIS	L	99	171.527	84.054	9.219	1.00	80.75	LS12
ATOM	45515	CD2	HIS	L	99	172.290	84.900	9.952	1.00	80.75	LS12
ATOM	45516	ND1	HIS	L	99	171.455	84.601	7.957	1.00	80.75	LS12
ATOM	45517	CE1	HIS	L	99	172.142	85.731	7.928	1.00	80.75	LS12
ATOM	45518	NE2	HIS	L	99	172.659	85.935	9.126	1.00	80.75	LS12
ATOM	45519	C	HIS	L	99	170.766	80.306	9.460	1.00	66.14	LS12
ATOM	45520	O	HIS	L	99	169.758	79.680	9.108	1.00	66.14	LS12
ATOM	45521	N	ILE	L	100	171.536	79.921	10.472	1.00	78.78	LS12
ATOM	45522	CA	ILE	L	100	171.225	78.739	11.263	1.00	78.78	LS12
ATOM	45523	CB	ILE	L	100	172.490	77.916	11.545	1.00	61.38	LS12
ATOM	45524	CG2	ILE	L	100	172.360	77.200	12.870	1.00	61.38	LS12
ATOM	45525	CG1	ILE	L	100	172.725	76.935	10.393	1.00	61.38	LS12
ATOM	45526	CD1	ILE	L	100	173.950	76.050	10.551	1.00	61.38	LS12
ATOM	45527	C	ILE	L	100	170.579	79.130	12.588	1.00	78.78	LS12
ATOM	45528	O	ILE	L	100	171.141	79.890	13.367	1.00	78.78	LS12
ATOM	45529	N	VAL	L	101	169.386	78.617	12.840	1.00	79.02	LS12
ATOM	45530	CA	VAL	L	101	168.701	78.924	14.082	1.00	79.02	LS12
ATOM	45531	CB	VAL	L	101	167.261	78.370	14.073	1.00	64.29	LS12
ATOM	45532	CG1	VAL	L	101	166.690	78.392	15.472	1.00	64.29	LS12
ATOM	45533	CG2	VAL	L	101	166.389	79.199	13.156	1.00	64.29	LS12
ATOM	45534	C	VAL	L	101	169.469	78.296	15.240	1.00	79.02	LS12
ATOM	45535	O	VAL	L	101	169.494	77.069	15.388	1.00	79.02	LS12
ATOM	45536	N	ARG	L	102	170.098	79.131	16.059	1.00	70.70	LS12
ATOM	45537	CA	ARG	L	102	170.849	78.626	17.199	1.00	70.70	LS12
ATOM	45538	CB	ARG	L	102	171.927	79.615	17.607	1.00	69.49	LS12
ATOM	45539	CG	ARG	L	102	172.817	79.956	16.459	1.00	69.49	LS12
ATOM	45540	CD	ARG	L	102	174.186	80.329	16.915	1.00	69.49	LS12
ATOM	45541	NE	ARG	L	102	174.669	79.404	17.926	1.00	69.49	LS12
ATOM	45542	CZ	ARG	L	102	175.934	79.340	18.312	1.00	69.49	LS12
ATOM	45543	NH1	ARG	L	102	176.841	80.141	17.758	1.00	69.49	LS12
ATOM	45544	NH2	ARG	L	102	176.282	78.498	19.275	1.00	69.49	LS12
ATOM	45545	C	ARG	L	102	169.907	78.402	18.352	1.00	70.70	LS12
ATOM	45546	O	ARG	L	102	169.188	79.308	18.750	1.00	70.70	LS12
ATOM	45547	N	GLY	L	103	169.910	77.191	18.887	1.00	83.07	LS12
ATOM	45548	CA	GLY	L	103	169.032	76.883	19.996	1.00	83.07	LS12
ATOM	45549	C	GLY	L	103	168.089	75.765	19.605	1.00	83.07	LS12
ATOM	45550	O	GLY	L	103	167.294	75.279	20.427	1.00	83.07	LS12
ATOM	45551	N	VAL	L	104	168.184	75.355	18.342	1.00	87.32	LS12
ATOM	45552	CA	VAL	L	104	167.349	74.286	17.810	1.00	87.32	LS12
ATOM	45553	CB	VAL	L	104	166.485	74.791	16.640	1.00	97.41	LS12
ATOM	45554	CG1	VAL	L	104	165.889	73.614	15.883	1.00	97.41	LS12
ATOM	45555	CG2	VAL	L	104	165.377	75.691	17.171	1.00	97.41	LS12
ATOM	45556	C	VAL	L	104	168.191	73.115	17.326	1.00	87.32	LS12
ATOM	45557	O	VAL	L	104	169.166	73.300	16.593	1.00	87.32	LS12
ATOM	45558	N	TYR	L	105	167.801	71.914	17.743	1.00	117.78	LS12
ATOM	45559	CA	TYR	L	105	168.497	70.692	17.361	1.00	117.78	LS12
ATOM	45560	CB	TYR	L	105	168.511	70.558	15.835	1.00	75.48	LS12
ATOM	45561	CG	TYR	L	105	167.130	70.460	15.221	1.00	75.48	LS12
ATOM	45562	CD1	TYR	L	105	166.911	70.817	13.890	1.00	75.48	LS12
ATOM	45563	CE1	TYR	L	105	165.648	70.734	13.327	1.00	75.48	LS12
ATOM	45564	CD2	TYR	L	105	166.040	70.013	15.972	1.00	75.48	LS12
ATOM	45565	CE2	TYR	L	105	164.777	69.924	15.417	1.00	75.48	LS12

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ATOM	45566	CZ	TYR	L	105	164.586	70.287	14.096	1.00	75.48	LS12
ATOM	45567	OH	TYR	L	105	163.330	70.208	13.546	1.00	75.48	LS12
ATOM	45568	C	TYR	L	105	169.920	70.626	17.902	1.00	117.78	LS12
ATOM	45569	O	TYR	L	105	170.150	70.814	19.095	1.00	117.78	LS12
ATOM	45570	N	ASP	L	106	170.872	70.361	17.018	1.00	73.99	LS12
ATOM	45571	CA	ASP	L	106	172.271	70.248	17.403	1.00	73.99	LS12
ATOM	45572	CB	ASP	L	106	172.970	69.290	16.444	1.00	102.56	LS12
ATOM	45573	CG	ASP	L	106	172.321	67.919	16.426	1.00	102.56	LS12
ATOM	45574	OD1	ASP	L	106	172.648	67.116	15.524	1.00	102.56	LS12
ATOM	45575	OD2	ASP	L	106	171.484	67.647	17.321	1.00	102.56	LS12
ATOM	45576	C	ASP	L	106	172.998	71.593	17.449	1.00	73.99	LS12
ATOM	45577	O	ASP	L	106	174.193	71.669	17.761	1.00	73.99	LS12
ATOM	45578	N	ALA	L	107	172.278	72.660	17.136	1.00	97.63	LS12
ATOM	45579	CA	ALA	L	107	172.874	73.983	17.167	1.00	97.63	LS12
ATOM	45580	CB	ALA	L	107	172.213	74.883	16.134	1.00	168.08	LS12
ATOM	45581	C	ALA	L	107	172.647	74.529	18.564	1.00	97.63	LS12
ATOM	45582	O	ALA	L	107	171.521	74.874	18.926	1.00	97.63	LS12
ATOM	45583	N	ALA	L	108	173.710	74.585	19.360	1.00	65.46	LS12
ATOM	45584	CA	ALA	L	108	173.590	75.097	20.713	1.00	65.46	LS12
ATOM	45585	CB	ALA	L	108	174.755	74.634	21.552	1.00	54.85	LS12
ATOM	45586	C	ALA	L	108	173.549	76.615	20.668	1.00	65.46	LS12
ATOM	45587	O	ALA	L	108	174.120	77.242	19.768	1.00	65.46	LS12
ATOM	45588	N	GLY	L	109	172.856	77.199	21.637	1.00	75.99	LS12
ATOM	45589	CA	GLY	L	109	172.763	78.643	21.697	1.00	75.99	LS12
ATOM	45590	C	GLY	L	109	174.094	79.217	22.127	1.00	75.99	LS12
ATOM	45591	O	GLY	L	109	174.861	78.557	22.814	1.00	75.99	LS12
ATOM	45592	N	VAL	L	110	174.379	80.446	21.730	1.00	68.65	LS12
ATOM	45593	CA	VAL	L	110	175.640	81.053	22.104	1.00	68.65	LS12
ATOM	45594	CB	VAL	L	110	175.795	82.426	21.454	1.00	77.61	LS12
ATOM	45595	CG1	VAL	L	110	177.159	83.024	21.814	1.00	77.61	LS12
ATOM	45596	CG2	VAL	L	110	175.645	82.284	19.954	1.00	77.61	LS12
ATOM	45597	C	VAL	L	110	175.810	81.195	23.616	1.00	68.65	LS12
ATOM	45598	O	VAL	L	110	174.983	81.796	24.300	1.00	68.65	LS12
ATOM	45599	N	LYS	L	111	176.903	80.639	24.126	1.00	116.19	LS12
ATOM	45600	CA	LYS	L	111	177.201	80.694	25.551	1.00	116.19	LS12
ATOM	45601	CB	LYS	L	111	178.310	79.693	25.892	1.00	121.65	LS12
ATOM	45602	CG	LYS	L	111	178.027	78.270	25.411	1.00	121.65	LS12
ATOM	45603	CD	LYS	L	111	179.217	77.348	25.620	1.00	121.65	LS12
ATOM	45604	CE	LYS	L	111	178.947	75.963	25.056	1.00	121.65	LS12
ATOM	45605	NZ	LYS	L	111	180.151	75.090	25.146	1.00	121.65	LS12
ATOM	45606	C	LYS	L	111	177.652	82.097	25.914	1.00	116.19	LS12
ATOM	45607	O	LYS	L	111	178.241	82.798	25.090	1.00	116.19	LS12
ATOM	45608	N	ASP	L	112	177.364	82.503	27.146	1.00	97.24	LS12
ATOM	45609	CA	ASP	L	112	177.752	83.823	27.641	1.00	97.24	LS12
ATOM	45610	CB	ASP	L	112	179.262	84.036	27.467	1.00	141.76	LS12
ATOM	45611	CG	ASP	L	112	180.091	83.051	28.277	1.00	141.76	LS12
ATOM	45612	OD1	ASP	L	112	181.335	83.180	28.277	1.00	141.76	LS12
ATOM	45613	OD2	ASP	L	112	179.500	82.147	28.911	1.00	141.76	LS12
ATOM	45614	C	ASP	L	112	176.996	84.988	27.003	1.00	97.24	LS12
ATOM	45615	O	ASP	L	112	177.404	86.146	27.123	1.00	97.24	LS12
ATOM	45616	N	ARG	L	113	175.897	84.686	26.322	1.00	114.42	LS12
ATOM	45617	CA	ARG	L	113	175.097	85.736	25.703	1.00	114.42	LS12
ATOM	45618	CB	ARG	L	113	174.139	85.148	24.666	1.00	90.57	LS12
ATOM	45619	CG	ARG	L	113	174.424	85.597	23.247	1.00	90.57	LS12
ATOM	45620	CD	ARG	L	113	174.197	87.085	23.073	1.00	90.57	LS12
ATOM	45621	NE	ARG	L	113	174.880	87.567	21.881	1.00	90.57	LS12
ATOM	45622	CZ	ARG	L	113	174.665	88.750	21.327	1.00	90.57	LS12
ATOM	45623	NH1	ARG	L	113	173.772	89.573	21.859	1.00	90.57	LS12
ATOM	45624	NH2	ARG	L	113	175.350	89.112	20.254	1.00	90.57	LS12
ATOM	45625	C	ARG	L	113	174.301	86.395	26.811	1.00	114.42	LS12
ATOM	45626	O	ARG	L	113	173.985	85.755	27.815	1.00	114.42	LS12
ATOM	45627	N	LYS	L	114	173.976	87.669	26.644	1.00	84.92	LS12
ATOM	45628	CA	LYS	L	114	173.221	88.357	27.674	1.00	84.92	LS12
ATOM	45629	CB	LYS	L	114	174.187	89.045	28.640	1.00	128.35	LS12
ATOM	45630	CG	LYS	L	114	175.223	88.081	29.208	1.00	128.35	LS12
ATOM	45631	CD	LYS	L	114	176.144	88.740	30.203	1.00	128.35	LS12
ATOM	45632	CE	LYS	L	114	175.422	89.047	31.499	1.00	128.35	LS12
ATOM	45633	NZ	LYS	L	114	176.286	89.834	32.428	1.00	128.35	LS12
ATOM	45634	C	LYS	L	114	172.234	89.352	27.101	1.00	84.92	LS12
ATOM	45635	O	LYS	L	114	171.187	89.595	27.698	1.00	84.92	LS12
ATOM	45636	N	LYS	L	115	172.555	89.894	25.927	1.00	99.73	LS12
ATOM	45637	CA	LYS	L	115	171.711	90.883	25.258	1.00	99.73	LS12
ATOM	45638	CB	LYS	L	115	172.575	91.806	24.417	1.00	91.24	LS12
ATOM	45639	CG	LYS	L	115	173.578	92.593	25.221	1.00	91.24	LS12
ATOM	45640	CD	LYS	L	115	173.107	94.001	25.500	1.00	91.24	LS12
ATOM	45641	CE	LYS	L	115	174.179	94.780	26.242	1.00	91.24	LS12
ATOM	45642	NZ	LYS	L	115	173.758	96.195	26.441	1.00	91.24	LS12

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ATOM	45643	C	LYS	L	115	170.593	90.340	24.376	1.00	99.73	LS12
ATOM	45644	O	LYS	L	115	169.520	89.980	24.861	1.00	99.73	LS12
ATOM	45645	N	SER	L	116	170.843	90.290	23.075	1.00	68.38	LS12
ATOM	45646	CA	SER	L	116	169.830	89.826	22.130	1.00	68.38	LS12
ATOM	45647	CB	SER	L	116	170.239	90.247	20.715	1.00	86.06	LS12
ATOM	45648	OG	SER	L	116	170.416	91.652	20.628	1.00	86.06	LS12
ATOM	45649	C	SER	L	116	169.526	88.309	22.163	1.00	68.38	LS12
ATOM	45650	O	SER	L	116	169.141	87.720	21.153	1.00	68.38	LS12
ATOM	45651	N	ARG	L	117	169.666	87.698	23.336	1.00	74.21	LS12
ATOM	45652	CA	ARG	L	117	169.434	86.265	23.532	1.00	74.21	LS12
ATOM	45653	CB	ARG	L	117	169.110	85.967	24.995	1.00	76.74	LS12
ATOM	45654	CG	ARG	L	117	170.138	86.396	26.005	1.00	76.74	LS12
ATOM	45655	CD	ARG	L	117	170.013	85.494	27.209	1.00	76.74	LS12
ATOM	45656	NE	ARG	L	117	168.618	85.310	27.592	1.00	76.74	LS12
ATOM	45657	CZ	ARG	L	117	167.867	86.270	28.113	1.00	76.74	LS12
ATOM	45658	NH1	ARG	L	117	168.380	87.481	28.318	1.00	76.74	LS12
ATOM	45659	NH2	ARG	L	117	166.605	86.018	28.421	1.00	76.74	LS12
ATOM	45660	C	ARG	L	117	168.355	85.591	22.696	1.00	74.21	LS12
ATOM	45661	O	ARG	L	117	168.495	84.415	22.376	1.00	74.21	LS12
ATOM	45662	N	SER	L	118	167.272	86.302	22.382	1.00	68.45	LS12
ATOM	45663	CA	SER	L	118	166.174	85.727	21.597	1.00	68.45	LS12
ATOM	45664	CB	SER	L	118	165.125	86.801	21.283	1.00	97.02	LS12
ATOM	45665	OG	SER	L	118	163.976	86.246	20.681	1.00	97.02	LS12
ATOM	45666	C	SER	L	118	166.767	85.163	20.308	1.00	68.45	LS12
ATOM	45667	O	SER	L	118	166.413	84.081	19.847	1.00	68.45	LS12
ATOM	45668	N	LYS	L	119	167.680	85.919	19.727	1.00	94.99	LS12
ATOM	45669	CA	LYS	L	119	168.368	85.492	18.529	1.00	94.99	LS12
ATOM	45670	CB	LYS	L	119	168.674	86.726	17.708	1.00	65.62	LS12
ATOM	45671	CG	LYS	L	119	167.529	87.731	17.743	1.00	65.62	LS12
ATOM	45672	CD	LYS	L	119	167.835	88.908	16.854	1.00	65.62	LS12
ATOM	45673	CE	LYS	L	119	166.903	90.066	17.121	1.00	65.62	LS12
ATOM	45674	NZ	LYS	L	119	167.355	91.274	16.377	1.00	65.62	LS12
ATOM	45675	C	LYS	L	119	169.619	84.895	19.162	1.00	94.99	LS12
ATOM	45676	O	LYS	L	119	170.092	85.429	20.161	1.00	94.99	LS12
ATOM	45677	N	TYR	L	120	170.155	83.806	18.617	1.00	76.42	LS12
ATOM	45678	CA	TYR	L	120	171.325	83.127	19.226	1.00	76.42	LS12
ATOM	45679	CB	TYR	L	120	172.320	84.127	19.864	1.00	63.32	LS12
ATOM	45680	CG	TYR	L	120	172.755	85.244	18.943	1.00	63.32	LS12
ATOM	45681	CD1	TYR	L	120	172.686	86.569	19.354	1.00	63.32	LS12
ATOM	45682	CE1	TYR	L	120	172.992	87.606	18.493	1.00	63.32	LS12
ATOM	45683	CD2	TYR	L	120	173.160	84.978	17.641	1.00	63.32	LS12
ATOM	45684	CE2	TYR	L	120	173.477	86.003	16.759	1.00	63.32	LS12
ATOM	45685	CZ	TYR	L	120	173.386	87.326	17.185	1.00	63.32	LS12
ATOM	45686	OH	TYR	L	120	173.640	88.362	16.290	1.00	63.32	LS12
ATOM	45687	C	TYR	L	120	170.782	82.183	20.320	1.00	76.42	LS12
ATOM	45688	O	TYR	L	120	171.509	81.709	21.184	1.00	76.42	LS12
ATOM	45689	N	GLY	L	121	169.478	81.945	20.248	1.00	76.43	LS12
ATOM	45690	CA	GLY	L	121	168.759	81.079	21.165	1.00	76.43	LS12
ATOM	45691	C	GLY	L	121	169.361	80.609	22.469	1.00	76.43	LS12
ATOM	45692	O	GLY	L	121	169.559	79.417	22.659	1.00	76.43	LS12
ATOM	45693	N	THR	L	122	169.632	81.525	23.385	1.00	69.73	LS12
ATOM	45694	CA	THR	L	122	170.183	81.131	24.674	1.00	69.73	LS12
ATOM	45695	CB	THR	L	122	171.494	81.867	24.980	1.00	68.66	LS12
ATOM	45696	OG1	THR	L	122	171.215	83.230	25.313	1.00	68.66	LS12
ATOM	45697	CG2	THR	L	122	172.409	81.831	23.774	1.00	68.66	LS12
ATOM	45698	C	THR	L	122	169.165	81.479	25.752	1.00	69.73	LS12
ATOM	45699	O	THR	L	122	168.575	82.563	25.728	1.00	69.73	LS12
ATOM	45700	N	LYS	L	123	168.959	80.559	26.693	1.00	72.03	LS12
ATOM	45701	CA	LYS	L	123	168.002	80.762	27.784	1.00	72.03	LS12
ATOM	45702	CB	LYS	L	123	167.990	79.561	28.736	1.00	75.78	LS12
ATOM	45703	CG	LYS	L	123	167.505	78.255	28.152	1.00	75.78	LS12
ATOM	45704	CD	LYS	L	123	166.067	78.359	27.701	1.00	75.78	LS12
ATOM	45705	CE	LYS	L	123	165.482	76.980	27.431	1.00	75.78	LS12
ATOM	45706	NZ	LYS	L	123	166.257	76.166	26.440	1.00	75.78	LS12
ATOM	45707	C	LYS	L	123	168.324	81.992	28.615	1.00	72.03	LS12
ATOM	45708	O	LYS	L	123	169.415	82.566	28.526	1.00	72.03	LS12
ATOM	45709	N	LYS	L	124	167.358	82.370	29.443	1.00	85.67	LS12
ATOM	45710	CA	LYS	L	124	167.508	83.501	30.349	1.00	85.67	LS12
ATOM	45711	CB	LYS	L	124	166.144	83.877	30.939	1.00	101.17	LS12
ATOM	45712	CG	LYS	L	124	166.172	84.932	32.032	1.00	101.17	LS12
ATOM	45713	CD	LYS	L	124	165.913	86.327	31.500	1.00	101.17	LS12
ATOM	45714	CE	LYS	L	124	165.683	87.291	32.654	1.00	101.17	LS12
ATOM	45715	NZ	LYS	L	124	165.359	88.672	32.202	1.00	101.17	LS12
ATOM	45716	C	LYS	L	124	168.457	83.048	31.461	1.00	85.67	LS12
ATOM	45717	O	LYS	L	124	168.254	82.000	32.086	1.00	85.67	LS12
ATOM	45718	N	PRO	L	125	169.517	83.823	31.713	1.00	93.40	LS12
ATOM	45719	CD	PRO	L	125	169.966	85.049	31.028	1.00	77.75	LS12

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ATOM	45720	CA	PRO	L	125	170.456	83.438	32.763	1.00	93.40	LS12
ATOM	45721	CB	PRO	L	125	171.714	84.216	32.392	1.00	77.75	LS12
ATOM	45722	CG	PRO	L	125	171.148	85.502	31.889	1.00	77.75	LS12
ATOM	45723	C	PRO	L	125	169.934	83.785	34.156	1.00	93.40	LS12
ATOM	45724	O	PRO	L	125	169.663	84.948	34.466	1.00	93.40	LS12
ATOM	45725	N	LYS	L	126	169.778	82.752	34.976	1.00154.53		LS12
ATOM	45726	CA	LYS	L	126	169.313	82.891	36.350	1.00154.53		LS12
ATOM	45727	CB	LYS	L	126	169.384	81.541	37.066	1.00174.50		LS12
ATOM	45728	CG	LYS	L	126	170.150	80.471	36.286	1.00174.50		LS12
ATOM	45729	CD	LYS	L	126	171.547	80.938	35.872	1.00174.50		LS12
ATOM	45730	CE	LYS	L	126	172.058	80.145	34.676	1.00174.50		LS12
ATOM	45731	NZ	LYS	L	126	173.290	80.745	34.100	1.00174.50		LS12
ATOM	45732	C	LYS	L	126	170.196	83.887	37.080	1.00154.53		LS12
ATOM	45733	O	LYS	L	126	171.299	83.549	37.503	1.00154.53		LS12
ATOM	45734	N	GLU	L	127	169.714	85.116	37.218	1.00144.14		LS12
ATOM	45735	CA	GLU	L	127	170.478	86.144	37.904	1.00144.14		LS12
ATOM	45736	CB	GLU	L	127	169.849	87.517	37.665	1.00178.94		LS12
ATOM	45737	CG	GLU	L	127	168.387	87.612	38.054	1.00178.94		LS12
ATOM	45738	CD	GLU	L	127	167.766	88.931	37.635	1.00178.94		LS12
ATOM	45739	OE1	GLU	L	127	168.285	89.990	38.047	1.00178.94		LS12
ATOM	45740	OE2	GLU	L	127	166.760	88.909	36.893	1.00178.94		LS12
ATOM	45741	C	GLU	L	127	170.514	85.827	39.391	1.00144.14		LS12
ATOM	45742	O	GLU	L	127	169.475	85.599	40.016	1.00144.14		LS12
ATOM	45743	N	ALA	L	128	171.723	85.793	39.943	1.00195.11		LS12
ATOM	45744	CA	ALA	L	128	171.915	85.499	41.356	1.00195.11		LS12
ATOM	45745	CB	ALA	L	128	173.334	84.991	41.596	1.00128.94		LS12
ATOM	45746	C	ALA	L	128	171.661	86.752	42.180	1.00195.11		LS12
ATOM	45747	O	ALA	L	128	171.486	87.826	41.567	1.00195.11		LS12
ATOM	45748	OXT	ALA	L	128	171.646	86.644	43.423	1.00157.91		LS12
TER	45748		ALA	L	128						LS12
ATOM	45749	CB	ALA	M	2	280.658	116.846	-8.255	1.00120.62		MS13
ATOM	45750	C	ALA	M	2	278.976	115.046	-7.859	1.00	96.46	MS13
ATOM	45751	O	ALA	M	2	278.355	115.504	-6.904	1.00	96.46	MS13
ATOM	45752	N	ALA	M	2	278.528	116.835	-9.516	1.00	96.46	MS13
ATOM	45753	CA	ALA	M	2	279.584	115.976	-8.900	1.00	96.46	MS13
ATOM	45754	N	ARG	M	3	279.158	113.741	-8.048	1.00	96.92	MS13
ATOM	45755	CA	ARG	M	3	278.623	112.744	-7.124	1.00	96.92	MS13
ATOM	45756	CB	ARG	M	3	279.195	111.358	-7.439	1.00198.27		MS13
ATOM	45757	CG	ARG	M	3	278.997	110.910	-8.872	1.00198.27		MS13
ATOM	45758	CD	ARG	M	3	279.602	109.540	-9.107	1.00198.27		MS13
ATOM	45759	NE	ARG	M	3	279.708	109.243	-10.532	1.00198.27		MS13
ATOM	45760	CZ	ARG	M	3	280.286	108.154	-11.027	1.00198.27		MS13
ATOM	45761	NH1	ARG	M	3	280.810	107.251	-10.209	1.00198.27		MS13
ATOM	45762	NH2	ARG	M	3	280.355	107.974	-12.339	1.00198.27		MS13
ATOM	45763	C	ARG	M	3	278.963	113.103	-5.685	1.00	96.92	MS13
ATOM	45764	O	ARG	M	3	280.118	113.378	-5.375	1.00	96.92	MS13
ATOM	45765	N	ILE	M	4	277.966	113.108	-4.805	1.00132.01		MS13
ATOM	45766	CA	ILE	M	4	278.236	113.436	-3.416	1.00132.01		MS13
ATOM	45767	CB	ILE	M	4	277.422	114.661	-2.945	1.00	75.96	MS13
ATOM	45768	CG2	ILE	M	4	277.425	114.740	-1.441	1.00	75.96	MS13
ATOM	45769	CG1	ILE	M	4	278.072	115.946	-3.469	1.00	75.96	MS13
ATOM	45770	CD1	ILE	M	4	277.616	117.242	-2.769	1.00	75.96	MS13
ATOM	45771	C	ILE	M	4	278.036	112.279	-2.444	1.00132.01		MS13
ATOM	45772	O	ILE	M	4	278.981	111.541	-2.176	1.00132.01		MS13
ATOM	45773	N	ALA	M	5	276.827	112.105	-1.919	1.00	74.62	MS13
ATOM	45774	CA	ALA	M	5	276.581	111.033	-0.950	1.00	74.62	MS13
ATOM	45775	CB	ALA	M	5	275.432	111.412	-0.029	1.00	93.14	MS13
ATOM	45776	C	ALA	M	5	276.293	109.700	-1.616	1.00	74.62	MS13
ATOM	45777	O	ALA	M	5	276.358	109.589	-2.840	1.00	74.62	MS13
ATOM	45778	N	GLY	M	6	275.982	108.696	-0.801	1.00168.74		MS13
ATOM	45779	CA	GLY	M	6	275.683	107.373	-1.317	1.00168.74		MS13
ATOM	45780	C	GLY	M	6	275.201	107.402	-2.754	1.00168.74		MS13
ATOM	45781	O	GLY	M	6	274.003	107.514	-3.014	1.00168.74		MS13
ATOM	45782	N	VAL	M	7	276.152	107.316	-3.681	1.00128.49		MS13
ATOM	45783	CA	VAL	M	7	275.895	107.325	-5.119	1.00128.49		MS13
ATOM	45784	CB	VAL	M	7	275.321	105.954	-5.597	1.00165.70		MS13
ATOM	45785	CG1	VAL	M	7	276.265	104.828	-5.189	1.00165.70		MS13
ATOM	45786	CG2	VAL	M	7	273.929	105.716	-5.020	1.00165.70		MS13
ATOM	45787	C	VAL	M	7	274.984	108.455	-5.607	1.00128.49		MS13
ATOM	45788	O	VAL	M	7	274.169	108.262	-6.509	1.00128.49		MS13
ATOM	45789	N	GLU	M	8	275.128	109.637	-5.017	1.00110.24		MS13
ATOM	45790	CA	GLU	M	8	274.318	110.781	-5.421	1.00110.24		MS13
ATOM	45791	CB	GLU	M	8	274.060	111.695	-4.227	1.00198.84		MS13
ATOM	45792	CG	GLU	M	8	273.175	111.047	-3.190	1.00198.84		MS13
ATOM	45793	CD	GLU	M	8	271.887	110.522	-3.797	1.00198.84		MS13
ATOM	45794	OE1	GLU	M	8	271.047	111.348	-4.209	1.00198.84		MS13
ATOM	45795	OE2	GLU	M	8	271.718	109.286	-3.876	1.00198.84		MS13

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ATOM	45796	C	GLU	M	8	275.059	111.535	-6.508	1.00110.24	MS13
ATOM	45797	O	GLU	M	8	276.279	111.638	-6.457	1.00110.24	MS13
ATOM	45798	N	ILE	M	9	274.329	112.054	-7.493	1.00130.28	MS13
ATOM	45799	CA	ILE	M	9	274.959	112.777	-8.596	1.00130.28	MS13
ATOM	45800	CB	ILE	M	9	275.262	111.835	-9.795	1.00107.82	MS13
ATOM	45801	CG2	ILE	M	9	276.483	112.338	-10.552	1.00107.82	MS13
ATOM	45802	CG1	ILE	M	9	275.495	110.399	-9.319	1.00107.82	MS13
ATOM	45803	CD1	ILE	M	9	274.217	109.611	-9.095	1.00107.82	MS13
ATOM	45804	C	ILE	M	9	274.102	113.925	-9.135	1.00130.28	MS13
ATOM	45805	O	ILE	M	9	273.688	113.901	-10.295	1.00130.28	MS13
ATOM	45806	N	PRO	M	10	273.831	114.952	-8.313	1.00113.28	MS13
ATOM	45807	CD	PRO	M	10	274.371	115.250	-6.973	1.00135.48	MS13
ATOM	45808	CA	PRO	M	10	273.011	116.065	-8.810	1.00113.28	MS13
ATOM	45809	CB	PRO	M	10	272.816	116.917	-7.565	1.00135.48	MS13
ATOM	45810	CG	PRO	M	10	274.131	116.746	-6.851	1.00135.48	MS13
ATOM	45811	C	PRO	M	10	273.800	116.796	-9.877	1.00113.28	MS13
ATOM	45812	O	PRO	M	10	274.999	117.007	-9.697	1.00113.28	MS13
ATOM	45813	N	ARG	M	11	273.165	117.182	-10.980	1.00104.74	MS13
ATOM	45814	CA	ARG	M	11	273.933	117.884	-12.010	1.00104.74	MS13
ATOM	45815	CB	ARG	M	11	274.581	116.881	-12.977	1.00154.54	MS13
ATOM	45816	CG	ARG	M	11	275.127	117.540	-14.247	1.00154.54	MS13
ATOM	45817	CD	ARG	M	11	276.345	116.849	-14.828	1.00154.54	MS13
ATOM	45818	NE	ARG	M	11	276.928	117.659	-15.896	1.00154.54	MS13
ATOM	45819	CZ	ARG	M	11	278.067	117.380	-16.524	1.00154.54	MS13
ATOM	45820	NH1	ARG	M	11	278.764	116.300	-16.196	1.00154.54	MS13
ATOM	45821	NH2	ARG	M	11	278.511	118.186	-17.482	1.00154.54	MS13
ATOM	45822	C	ARG	M	11	273.225	118.943	-12.832	1.00104.74	MS13
ATOM	45823	O	ARG	M	11	271.998	118.993	-12.864	1.00104.74	MS13
ATOM	45824	N	ASN	M	12	274.034	119.795	-13.471	1.00 74.96	MS13
ATOM	45825	CA	ASN	M	12	273.568	120.854	-14.370	1.00 74.96	MS13
ATOM	45826	CB	ASN	M	12	273.001	120.188	-15.622	1.00104.08	MS13
ATOM	45827	CG	ASN	M	12	273.132	121.049	-16.841	1.00104.08	MS13
ATOM	45828	OD1	ASN	M	12	272.531	122.117	-16.933	1.00104.08	MS13
ATOM	45829	ND2	ASN	M	12	273.930	120.593	-17.795	1.00104.08	MS13
ATOM	45830	C	ASN	M	12	272.559	121.903	-13.835	1.00 74.96	MS13
ATOM	45831	O	ASN	M	12	272.091	122.772	-14.579	1.00 74.96	MS13
ATOM	45832	N	LYS	M	13	272.222	121.834	-12.552	1.00109.72	MS13
ATOM	45833	CA	LYS	M	13	271.283	122.797	-11.987	1.00109.72	MS13
ATOM	45834	CB	LYS	M	13	270.004	122.106	-11.493	1.00130.46	MS13
ATOM	45835	CG	LYS	M	13	269.014	121.654	-12.554	1.00130.46	MS13
ATOM	45836	CD	LYS	M	13	267.626	121.485	-11.936	1.00130.46	MS13
ATOM	45837	CE	LYS	M	13	266.634	120.861	-12.899	1.00130.46	MS13
ATOM	45838	NZ	LYS	M	13	266.958	119.428	-13.130	1.00130.46	MS13
ATOM	45839	C	LYS	M	13	271.882	123.523	-10.800	1.00109.72	MS13
ATOM	45840	O	LYS	M	13	272.871	123.075	-10.220	1.00109.72	MS13
ATOM	45841	N	ARG	M	14	271.272	124.651	-10.449	1.00 73.48	MS13
ATOM	45842	CA	ARG	M	14	271.677	125.416	-9.278	1.00 73.48	MS13
ATOM	45843	CB	ARG	M	14	270.511	126.287	-8.828	1.00 86.08	MS13
ATOM	45844	CG	ARG	M	14	270.698	127.764	-8.991	1.00 86.08	MS13
ATOM	45845	CD	ARG	M	14	269.369	128.443	-8.775	1.00 86.08	MS13
ATOM	45846	NE	ARG	M	14	269.472	129.895	-8.691	1.00 86.08	MS13
ATOM	45847	CZ	ARG	M	14	269.886	130.557	-7.615	1.00 86.08	MS13
ATOM	45848	NH1	ARG	M	14	270.242	129.896	-6.514	1.00 86.08	MS13
ATOM	45849	NH2	ARG	M	14	269.933	131.887	-7.644	1.00 86.08	MS13
ATOM	45850	C	ARG	M	14	271.961	124.371	-8.190	1.00 73.48	MS13
ATOM	45851	O	ARG	M	14	271.181	123.437	-8.014	1.00 73.48	MS13
ATOM	45852	N	VAL	M	15	273.060	124.512	-7.461	1.00 92.84	MS13
ATOM	45853	CA	VAL	M	15	273.380	123.538	-6.419	1.00 92.84	MS13
ATOM	45854	CB	VAL	M	15	274.763	123.821	-5.800	1.00 77.90	MS13
ATOM	45855	CG1	VAL	M	15	275.217	122.627	-4.974	1.00 77.90	MS13
ATOM	45856	CG2	VAL	M	15	275.764	124.123	-6.900	1.00 77.90	MS13
ATOM	45857	C	VAL	M	15	272.333	123.516	-5.301	1.00 92.84	MS13
ATOM	45858	O	VAL	M	15	271.954	122.444	-4.818	1.00 92.84	MS13
ATOM	45859	N	ASP	M	16	271.868	124.699	-4.903	1.00120.13	MS13
ATOM	45860	CA	ASP	M	16	270.868	124.839	-3.841	1.00120.13	MS13
ATOM	45861	CB	ASP	M	16	270.544	126.327	-3.615	1.00128.42	MS13
ATOM	45862	CG	ASP	M	16	270.119	127.050	-4.897	1.00128.42	MS13
ATOM	45863	OD1	ASP	M	16	270.581	126.663	-5.991	1.00128.42	MS13
ATOM	45864	OD2	ASP	M	16	269.337	128.023	-4.808	1.00128.42	MS13
ATOM	45865	C	ASP	M	16	269.597	124.058	-4.156	1.00120.13	MS13
ATOM	45866	O	ASP	M	16	268.662	124.008	-3.349	1.00120.13	MS13
ATOM	45867	N	VAL	M	17	269.589	123.443	-5.336	1.00 87.73	MS13
ATOM	45868	CA	VAL	M	17	268.470	122.641	-5.828	1.00 87.73	MS13
ATOM	45869	CB	VAL	M	17	268.021	123.087	-7.226	1.00 63.42	MS13
ATOM	45870	CG1	VAL	M	17	266.810	122.297	-7.625	1.00 63.42	MS13
ATOM	45871	CG2	VAL	M	17	267.750	124.588	-7.260	1.00 63.42	MS13
ATOM	45872	C	VAL	M	17	268.948	121.213	-5.995	1.00 87.73	MS13

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ATOM	45873	O	VAL	M	17	268.308	120.255	-5.555	1.00	87.73	MS13
ATOM	45874	N	ALA	M	18	270.080	121.110	-6.680	1.00	92.26	MS13
ATOM	45875	CA	ALA	M	18	270.728	119.848	-6.982	1.00	92.26	MS13
ATOM	45876	CB	ALA	M	18	272.087	120.117	-7.610	1.00	80.61	MS13
ATOM	45877	C	ALA	M	18	270.889	118.974	-5.748	1.00	92.26	MS13
ATOM	45878	O	ALA	M	18	270.669	117.758	-5.797	1.00	92.26	MS13
ATOM	45879	N	LEU	M	19	271.272	119.598	-4.640	1.00	78.96	MS13
ATOM	45880	CA	LEU	M	19	271.480	118.864	-3.400	1.00	78.96	MS13
ATOM	45881	CB	LEU	M	19	272.058	119.807	-2.342	1.00	82.66	MS13
ATOM	45882	CG	LEU	M	19	273.520	120.191	-2.634	1.00	82.66	MS13
ATOM	45883	CD1	LEU	M	19	273.930	121.408	-1.826	1.00	82.66	MS13
ATOM	45884	CD2	LEU	M	19	274.426	119.003	-2.320	1.00	82.66	MS13
ATOM	45885	C	LEU	M	19	270.199	118.201	-2.920	1.00	78.96	MS13
ATOM	45886	O	LEU	M	19	270.243	117.184	-2.231	1.00	78.96	MS13
ATOM	45887	N	THR	M	20	269.062	118.767	-3.317	1.00	90.75	MS13
ATOM	45888	CA	THR	M	20	267.762	118.228	-2.943	1.00	90.75	MS13
ATOM	45889	CB	THR	M	20	266.621	119.067	-3.527	1.00	121.21	MS13
ATOM	45890	OG1	THR	M	20	266.748	120.419	-3.078	1.00	121.21	MS13
ATOM	45891	CG2	THR	M	20	265.279	118.516	-3.079	1.00	121.21	MS13
ATOM	45892	C	THR	M	20	267.602	116.802	-3.453	1.00	90.75	MS13
ATOM	45893	O	THR	M	20	266.909	115.981	-2.826	1.00	90.75	MS13
ATOM	45894	N	TYR	M	21	268.245	116.516	-4.590	1.00	64.50	MS13
ATOM	45895	CA	TYR	M	21	268.178	115.190	-5.199	1.00	64.50	MS13
ATOM	45896	CB	TYR	M	21	268.798	115.184	-6.594	1.00	105.97	MS13
ATOM	45897	CG	TYR	M	21	267.956	115.895	-7.612	1.00	105.97	MS13
ATOM	45898	CD1	TYR	M	21	268.247	117.199	-7.989	1.00	105.97	MS13
ATOM	45899	CE1	TYR	M	21	267.460	117.873	-8.919	1.00	105.97	MS13
ATOM	45900	CD2	TYR	M	21	266.850	115.270	-8.186	1.00	105.97	MS13
ATOM	45901	CE2	TYR	M	21	266.051	115.933	-9.117	1.00	105.97	MS13
ATOM	45902	CZ	TYR	M	21	266.363	117.238	-9.481	1.00	105.97	MS13
ATOM	45903	OH	TYR	M	21	265.589	117.912	-10.409	1.00	105.97	MS13
ATOM	45904	C	TYR	M	21	268.834	114.117	-4.361	1.00	64.50	MS13
ATOM	45905	O	TYR	M	21	268.992	112.985	-4.815	1.00	64.50	MS13
ATOM	45906	N	ILE	M	22	269.210	114.475	-3.136	1.00	105.13	MS13
ATOM	45907	CA	ILE	M	22	269.828	113.536	-2.210	1.00	105.13	MS13
ATOM	45908	CB	ILE	M	22	271.057	114.182	-1.538	1.00	86.97	MS13
ATOM	45909	CG2	ILE	M	22	271.711	113.206	-0.570	1.00	86.97	MS13
ATOM	45910	CG1	ILE	M	22	272.042	114.619	-2.631	1.00	86.97	MS13
ATOM	45911	CD1	ILE	M	22	273.295	115.286	-2.127	1.00	86.97	MS13
ATOM	45912	C	ILE	M	22	268.754	113.154	-1.186	1.00	105.13	MS13
ATOM	45913	O	ILE	M	22	267.972	114.006	-0.751	1.00	105.13	MS13
ATOM	45914	N	TYR	M	23	268.705	111.875	-0.821	1.00	120.12	MS13
ATOM	45915	CA	TYR	M	23	267.694	111.379	0.109	1.00	120.12	MS13
ATOM	45916	CB	TYR	M	23	267.808	109.856	0.269	1.00	102.75	MS13
ATOM	45917	CG	TYR	M	23	266.617	109.242	0.976	1.00	102.75	MS13
ATOM	45918	CD1	TYR	M	23	265.346	109.287	0.400	1.00	102.75	MS13
ATOM	45919	CE1	TYR	M	23	264.222	108.799	1.076	1.00	102.75	MS13
ATOM	45920	CD2	TYR	M	23	266.741	108.683	2.252	1.00	102.75	MS13
ATOM	45921	CE2	TYR	M	23	265.621	108.192	2.940	1.00	102.75	MS13
ATOM	45922	CZ	TYR	M	23	264.366	108.258	2.345	1.00	102.75	MS13
ATOM	45923	OH	TYR	M	23	263.248	107.813	3.016	1.00	102.75	MS13
ATOM	45924	C	TYR	M	23	267.693	112.025	1.491	1.00	120.12	MS13
ATOM	45925	O	TYR	M	23	266.769	111.817	2.275	1.00	120.12	MS13
ATOM	45926	N	GLY	M	24	268.713	112.811	1.803	1.00	119.27	MS13
ATOM	45927	CA	GLY	M	24	268.737	113.439	3.109	1.00	119.27	MS13
ATOM	45928	C	GLY	M	24	268.807	114.948	3.037	1.00	119.27	MS13
ATOM	45929	O	GLY	M	24	269.297	115.599	3.961	1.00	119.27	MS13
ATOM	45930	N	ILE	M	25	268.320	115.525	1.947	1.00	107.00	MS13
ATOM	45931	CA	ILE	M	25	268.381	116.969	1.822	1.00	107.00	MS13
ATOM	45932	CB	ILE	M	25	269.595	117.410	0.970	1.00	83.92	MS13
ATOM	45933	CG2	ILE	M	25	269.940	118.863	1.265	1.00	83.92	MS13
ATOM	45934	CG1	ILE	M	25	270.814	116.554	1.306	1.00	83.92	MS13
ATOM	45935	CD1	ILE	M	25	272.036	116.904	0.489	1.00	83.92	MS13
ATOM	45936	C	ILE	M	25	267.129	117.576	1.217	1.00	107.00	MS13
ATOM	45937	O	ILE	M	25	266.468	116.976	0.358	1.00	107.00	MS13
ATOM	45938	N	GLY	M	26	266.824	118.781	1.688	1.00	84.21	MS13
ATOM	45939	CA	GLY	M	26	265.675	119.531	1.222	1.00	84.21	MS13
ATOM	45940	C	GLY	M	26	266.078	120.988	1.123	1.00	84.21	MS13
ATOM	45941	O	GLY	M	26	267.159	121.355	1.572	1.00	84.21	MS13
ATOM	45942	N	LYS	M	27	265.217	121.817	0.540	1.00	101.05	MS13
ATOM	45943	CA	LYS	M	27	265.496	123.240	0.379	1.00	101.05	MS13
ATOM	45944	CB	LYS	M	27	264.220	123.993	-0.006	1.00	130.52	MS13
ATOM	45945	CG	LYS	M	27	263.943	124.014	-1.503	1.00	130.52	MS13
ATOM	45946	CD	LYS	M	27	265.044	124.771	-2.239	1.00	130.52	MS13
ATOM	45947	CE	LYS	M	27	264.709	124.975	-3.707	1.00	130.52	MS13
ATOM	45948	NZ	LYS	M	27	265.653	125.938	-4.342	1.00	130.52	MS13
ATOM	45949	C	LYS	M	27	266.083	123.837	1.640	1.00	101.05	MS13

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ATOM	45950	O	LYS	M	27	266.696	124.897	1.604	1.00101.05	MS13
ATOM	45951	N	ALA	M	28	265.902	123.143	2.755	1.00102.56	MS13
ATOM	45952	CA	ALA	M	28	266.420	123.607	4.030	1.00102.56	MS13
ATOM	45953	CB	ALA	M	28	265.580	123.031	5.153	1.00 46.79	MS13
ATOM	45954	C	ALA	M	28	267.901	123.248	4.219	1.00102.56	MS13
ATOM	45955	O	ALA	M	28	268.762	124.128	4.173	1.00102.56	MS13
ATOM	45956	N	ARG	M	29	268.198	121.966	4.431	1.00 70.34	MS13
ATOM	45957	CA	ARG	M	29	269.583	121.530	4.620	1.00 70.34	MS13
ATOM	45958	CB	ARG	M	29	269.668	119.999	4.743	1.00 76.71	MS13
ATOM	45959	CG	ARG	M	29	269.226	119.440	6.098	1.00 76.71	MS13
ATOM	45960	CD	ARG	M	29	269.344	117.911	6.180	1.00 76.71	MS13
ATOM	45961	NE	ARG	M	29	269.350	117.452	7.573	1.00 76.71	MS13
ATOM	45962	CZ	ARG	M	29	269.410	116.175	7.960	1.00 76.71	MS13
ATOM	45963	NH1	ARG	M	29	269.461	115.196	7.067	1.00 76.71	MS13
ATOM	45964	NH2	ARG	M	29	269.446	115.868	9.250	1.00 76.71	MS13
ATOM	45965	C	ARG	M	29	270.444	121.991	3.453	1.00 70.34	MS13
ATOM	45966	O	ARG	M	29	271.656	122.131	3.594	1.00 70.34	MS13
ATOM	45967	N	ALA	M	30	269.805	122.228	2.307	1.00 94.87	MS13
ATOM	45968	CA	ALA	M	30	270.486	122.673	1.091	1.00 94.87	MS13
ATOM	45969	CB	ALA	M	30	269.495	122.751	-0.067	1.00142.75	MS13
ATOM	45970	C	ALA	M	30	271.169	124.022	1.280	1.00 94.87	MS13
ATOM	45971	O	ALA	M	30	272.395	124.102	1.254	1.00 94.87	MS13
ATOM	45972	N	LYS	M	31	270.378	125.082	1.463	1.00100.79	MS13
ATOM	45973	CA	LYS	M	31	270.926	126.428	1.660	1.00100.79	MS13
ATOM	45974	CB	LYS	M	31	269.804	127.453	1.839	1.00168.65	MS13
ATOM	45975	CG	LYS	M	31	269.052	127.776	0.562	1.00168.65	MS13
ATOM	45976	CD	LYS	M	31	268.029	128.884	0.783	1.00168.65	MS13
ATOM	45977	CE	LYS	M	31	267.287	129.213	-0.508	1.00168.65	MS13
ATOM	45978	NZ	LYS	M	31	266.281	130.295	-0.323	1.00168.65	MS13
ATOM	45979	C	LYS	M	31	271.850	126.486	2.869	1.00100.79	MS13
ATOM	45980	O	LYS	M	31	272.840	127.219	2.874	1.00100.79	MS13
ATOM	45981	N	GLU	M	32	271.522	125.710	3.894	1.00100.50	MS13
ATOM	45982	CA	GLU	M	32	272.330	125.679	5.098	1.00100.50	MS13
ATOM	45983	CB	GLU	M	32	271.614	124.874	6.184	1.00129.54	MS13
ATOM	45984	CG	GLU	M	32	272.289	124.923	7.539	1.00129.54	MS13
ATOM	45985	CD	GLU	M	32	272.869	123.583	7.940	1.00129.54	MS13
ATOM	45986	OE1	GLU	M	32	273.580	122.979	7.110	1.00129.54	MS13
ATOM	45987	OE2	GLU	M	32	272.622	123.135	9.081	1.00129.54	MS13
ATOM	45988	C	GLU	M	32	273.709	125.085	4.806	1.00100.50	MS13
ATOM	45989	O	GLU	M	32	274.726	125.658	5.195	1.00100.50	MS13
ATOM	45990	N	ALA	M	33	273.748	123.951	4.105	1.00123.28	MS13
ATOM	45991	CA	ALA	M	33	275.018	123.296	3.777	1.00123.28	MS13
ATOM	45992	CB	ALA	M	33	274.769	121.917	3.185	1.00 96.65	MS13
ATOM	45993	C	ALA	M	33	275.902	124.114	2.839	1.00123.28	MS13
ATOM	45994	O	ALA	M	33	277.122	124.075	2.955	1.00123.28	MS13
ATOM	45995	N	LEU	M	34	275.303	124.835	1.898	1.00 92.92	MS13
ATOM	45996	CA	LEU	M	34	276.098	125.667	1.003	1.00 92.92	MS13
ATOM	45997	CB	LEU	M	34	275.250	126.289	-0.105	1.00 99.52	MS13
ATOM	45998	CG	LEU	M	34	274.746	125.386	-1.224	1.00 99.52	MS13
ATOM	45999	CD1	LEU	M	34	274.460	126.253	-2.437	1.00 99.52	MS13
ATOM	46000	CD2	LEU	M	34	275.794	124.337	-1.574	1.00 99.52	MS13
ATOM	46001	C	LEU	M	34	276.631	126.784	1.865	1.00 92.92	MS13
ATOM	46002	O	LEU	M	34	277.820	127.098	1.839	1.00 92.92	MS13
ATOM	46003	N	GLU	M	35	275.711	127.375	2.625	1.00109.52	MS13
ATOM	46004	CA	GLU	M	35	275.986	128.474	3.547	1.00109.52	MS13
ATOM	46005	CB	GLU	M	35	274.858	128.559	4.579	1.00174.47	MS13
ATOM	46006	CG	GLU	M	35	274.844	129.820	5.419	1.00174.47	MS13
ATOM	46007	CD	GLU	M	35	273.975	130.898	4.815	1.00174.47	MS13
ATOM	46008	OE1	GLU	M	35	272.766	130.644	4.629	1.00174.47	MS13
ATOM	46009	OE2	GLU	M	35	274.496	131.995	4.527	1.00174.47	MS13
ATOM	46010	C	GLU	M	35	277.307	128.247	4.269	1.00109.52	MS13
ATOM	46011	O	GLU	M	35	278.242	129.042	4.148	1.00109.52	MS13
ATOM	46012	N	LYS	M	36	277.366	127.150	5.022	1.00106.24	MS13
ATOM	46013	CA	LYS	M	36	278.555	126.792	5.779	1.00106.24	MS13
ATOM	46014	CB	LYS	M	36	278.323	125.499	6.560	1.00134.33	MS13
ATOM	46015	CG	LYS	M	36	277.392	125.662	7.740	1.00134.33	MS13
ATOM	46016	CD	LYS	M	36	277.350	124.400	8.565	1.00134.33	MS13
ATOM	46017	CE	LYS	M	36	276.371	124.530	9.710	1.00134.33	MS13
ATOM	46018	NZ	LYS	M	36	276.210	123.234	10.420	1.00134.33	MS13
ATOM	46019	C	LYS	M	36	279.769	126.626	4.887	1.00106.24	MS13
ATOM	46020	O	LYS	M	36	280.814	127.221	5.140	1.00106.24	MS13
ATOM	46021	N	THR	M	37	279.626	125.815	3.843	1.00120.33	MS13
ATOM	46022	CA	THR	M	37	280.717	125.563	2.908	1.00120.33	MS13
ATOM	46023	CB	THR	M	37	280.405	124.328	2.033	1.00104.40	MS13
ATOM	46024	OG1	THR	M	37	280.308	123.165	2.868	1.00104.40	MS13
ATOM	46025	CG2	THR	M	37	281.501	124.095	1.028	1.00104.40	MS13
ATOM	46026	C	THR	M	37	281.001	126.778	2.023	1.00120.33	MS13

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ATOM	46027	O	THR	M	37	281.837	126.723	1.124	1.00120.33	MS13
ATOM	46028	N	GLY	M	38	280.313	127.881	2.302	1.00 88.38	MS13
ATOM	46029	CA	GLY	M	38	280.507	129.100	1.539	1.00 88.38	MS13
ATOM	46030	C	GLY	M	38	280.646	128.879	0.046	1.00 88.38	MS13
ATOM	46031	O	GLY	M	38	281.753	128.823	-0.484	1.00 88.38	MS13
ATOM	46032	N	ILE	M	39	279.517	128.744	-0.637	1.00120.89	MS13
ATOM	46033	CA	ILE	M	39	279.511	128.534	-2.078	1.00120.89	MS13
ATOM	46034	CB	ILE	M	39	279.403	127.033	-2.439	1.00 72.02	MS13
ATOM	46035	CG2	ILE	M	39	279.577	126.851	-3.949	1.00 72.02	MS13
ATOM	46036	CG1	ILE	M	39	280.449	126.216	-1.671	1.00 72.02	MS13
ATOM	46037	CD1	ILE	M	39	280.361	124.720	-1.929	1.00 72.02	MS13
ATOM	46038	C	ILE	M	39	278.271	129.227	-2.614	1.00120.89	MS13
ATOM	46039	O	ILE	M	39	277.167	128.966	-2.139	1.00120.89	MS13
ATOM	46040	N	ASN	M	40	278.438	130.112	-3.588	1.00100.36	MS13
ATOM	46041	CA	ASN	M	40	277.281	130.794	-4.145	1.00100.36	MS13
ATOM	46042	CB	ASN	M	40	277.693	131.731	-5.269	1.00130.33	MS13
ATOM	46043	CG	ASN	M	40	276.508	132.433	-5.894	1.00130.33	MS13
ATOM	46044	OD1	ASN	M	40	276.657	133.172	-6.868	1.00130.33	MS13
ATOM	46045	ND2	ASN	M	40	275.320	132.207	-5.338	1.00130.33	MS13
ATOM	46046	C	ASN	M	40	276.326	129.741	-4.690	1.00100.36	MS13
ATOM	46047	O	ASN	M	40	276.662	129.015	-5.625	1.00100.36	MS13
ATOM	46048	N	PRO	M	41	275.116	129.649	-4.115	1.00103.63	MS13
ATOM	46049	CD	PRO	M	41	274.559	130.539	-3.083	1.00 97.03	MS13
ATOM	46050	CA	PRO	M	41	274.111	128.672	-4.547	1.00103.63	MS13
ATOM	46051	CB	PRO	M	41	272.866	129.097	-3.782	1.00 97.03	MS13
ATOM	46052	CG	PRO	M	41	273.429	129.705	-2.539	1.00 97.03	MS13
ATOM	46053	C	PRO	M	41	273.888	128.730	-6.038	1.00103.63	MS13
ATOM	46054	O	PRO	M	41	273.921	127.713	-6.725	1.00103.63	MS13
ATOM	46055	N	ALA	M	42	273.669	129.948	-6.517	1.00 83.42	MS13
ATOM	46056	CA	ALA	M	42	273.414	130.232	-7.922	1.00 83.42	MS13
ATOM	46057	CB	ALA	M	42	273.520	131.728	-8.147	1.00 90.94	MS13
ATOM	46058	C	ALA	M	42	274.274	129.500	-8.956	1.00 83.42	MS13
ATOM	46059	O	ALA	M	42	273.941	129.499	-10.148	1.00 83.42	MS13
ATOM	46060	N	THR	M	43	275.366	128.881	-8.517	1.00 78.31	MS13
ATOM	46061	CA	THR	M	43	276.261	128.179	-9.442	1.00 78.31	MS13
ATOM	46062	CB	THR	M	43	277.662	127.938	-8.803	1.00126.36	MS13
ATOM	46063	OG1	THR	M	43	277.513	127.224	-7.568	1.00126.36	MS13
ATOM	46064	CG2	THR	M	43	278.381	129.264	-8.547	1.00126.36	MS13
ATOM	46065	C	THR	M	43	275.747	126.836	-9.961	1.00 78.31	MS13
ATOM	46066	O	THR	M	43	275.284	125.993	-9.185	1.00 78.31	MS13
ATOM	46067	N	ARG	M	44	275.830	126.646	-11.278	1.00 75.24	MS13
ATOM	46068	CA	ARG	M	44	275.410	125.389	-11.893	1.00 75.24	MS13
ATOM	46069	CB	ARG	M	44	275.481	125.502	-13.415	1.00116.30	MS13
ATOM	46070	CG	ARG	M	44	274.122	125.596	-14.079	1.00116.30	MS13
ATOM	46071	CD	ARG	M	44	273.212	126.557	-13.340	1.00116.30	MS13
ATOM	46072	NE	ARG	M	44	271.819	126.396	-13.735	1.00116.30	MS13
ATOM	46073	CZ	ARG	M	44	270.792	126.789	-12.992	1.00116.30	MS13
ATOM	46074	NH1	ARG	M	44	271.004	127.362	-11.815	1.00116.30	MS13
ATOM	46075	NH2	ARG	M	44	269.554	126.612	-13.425	1.00116.30	MS13
ATOM	46076	C	ARG	M	44	276.390	124.346	-11.385	1.00 75.24	MS13
ATOM	46077	O	ARG	M	44	277.576	124.632	-11.291	1.00 75.24	MS13
ATOM	46078	N	VAL	M	45	275.924	123.152	-11.042	1.00 77.26	MS13
ATOM	46079	CA	VAL	M	45	276.846	122.148	-10.520	1.00 77.26	MS13
ATOM	46080	CB	VAL	M	45	276.154	120.788	-10.322	1.00100.06	MS13
ATOM	46081	CG1	VAL	M	45	277.166	119.746	-9.828	1.00100.06	MS13
ATOM	46082	CG2	VAL	M	45	275.029	120.939	-9.314	1.00100.06	MS13
ATOM	46083	C	VAL	M	45	278.071	121.957	-11.411	1.00 77.26	MS13
ATOM	46084	O	VAL	M	45	279.178	121.704	-10.914	1.00 77.26	MS13
ATOM	46085	N	LYS	M	46	277.874	122.090	-12.722	1.00 95.62	MS13
ATOM	46086	CA	LYS	M	46	278.968	121.939	-13.679	1.00 95.62	MS13
ATOM	46087	CB	LYS	M	46	278.431	121.986	-15.110	1.00108.24	MS13
ATOM	46088	CG	LYS	M	46	277.751	123.277	-15.486	1.00108.24	MS13
ATOM	46089	CD	LYS	M	46	278.204	123.731	-16.866	1.00108.24	MS13
ATOM	46090	CE	LYS	M	46	279.718	124.007	-16.893	1.00108.24	MS13
ATOM	46091	NZ	LYS	M	46	280.235	124.474	-18.223	1.00108.24	MS13
ATOM	46092	C	LYS	M	46	280.056	123.003	-13.497	1.00 95.62	MS13
ATOM	46093	O	LYS	M	46	281.218	122.762	-13.816	1.00 95.62	MS13
ATOM	46094	N	ASP	M	47	279.669	124.171	-12.982	1.00 93.23	MS13
ATOM	46095	CA	ASP	M	47	280.591	125.282	-12.738	1.00 93.23	MS13
ATOM	46096	CB	ASP	M	47	279.876	126.623	-12.913	1.00139.49	MS13
ATOM	46097	CG	ASP	M	47	279.233	126.770	-14.274	1.00139.49	MS13
ATOM	46098	OD1	ASP	M	47	279.943	126.605	-15.290	1.00139.49	MS13
ATOM	46099	OD2	ASP	M	47	278.017	127.057	-14.328	1.00139.49	MS13
ATOM	46100	C	ASP	M	47	281.160	125.207	-11.321	1.00 93.23	MS13
ATOM	46101	O	ASP	M	47	281.933	126.069	-10.898	1.00 93.23	MS13
ATOM	46102	N	LEU	M	48	280.766	124.173	-10.588	1.00102.32	MS13
ATOM	46103	CA	LEU	M	48	281.242	123.985	-9.227	1.00102.32	MS13

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ATOM	46104	CB	LEU	M	48	280.470	122.858	-8.543	1.00	93.79	MS13
ATOM	46105	CG	LEU	M	48	279.588	123.208	-7.346	1.00	93.79	MS13
ATOM	46106	CD1	LEU	M	48	279.689	122.065	-6.342	1.00	93.79	MS13
ATOM	46107	CD2	LEU	M	48	280.033	124.521	-6.699	1.00	93.79	MS13
ATOM	46108	C	LEU	M	48	282.724	123.636	-9.212	1.00	102.32	MS13
ATOM	46109	O	LEU	M	48	283.120	122.579	-9.708	1.00	102.32	MS13
ATOM	46110	N	THR	M	49	283.535	124.518	-8.638	1.00	103.77	MS13
ATOM	46111	CA	THR	M	49	284.973	124.287	-8.543	1.00	103.77	MS13
ATOM	46112	CB	THR	M	49	285.665	125.351	-7.685	1.00	90.01	MS13
ATOM	46113	OG1	THR	M	49	285.614	126.613	-8.352	1.00	90.01	MS13
ATOM	46114	CG2	THR	M	49	287.111	124.976	-7.437	1.00	90.01	MS13
ATOM	46115	C	THR	M	49	285.274	122.943	-7.901	1.00	103.77	MS13
ATOM	46116	O	THR	M	49	284.560	122.501	-7.000	1.00	103.77	MS13
ATOM	46117	N	GLU	M	50	286.344	122.306	-8.367	1.00	99.02	MS13
ATOM	46118	CA	GLU	M	50	286.764	121.016	-7.843	1.00	99.02	MS13
ATOM	46119	CB	GLU	M	50	288.029	120.552	-8.568	1.00	155.09	MS13
ATOM	46120	CG	GLU	M	50	288.616	119.268	-8.023	1.00	155.09	MS13
ATOM	46121	CD	GLU	M	50	287.625	118.130	-8.042	1.00	155.09	MS13
ATOM	46122	OE1	GLU	M	50	287.180	117.749	-9.145	1.00	155.09	MS13
ATOM	46123	OE2	GLU	M	50	287.287	117.621	-6.955	1.00	155.09	MS13
ATOM	46124	C	GLU	M	50	287.040	121.163	-6.351	1.00	99.02	MS13
ATOM	46125	O	GLU	M	50	286.901	120.211	-5.583	1.00	99.02	MS13
ATOM	46126	N	ALA	M	51	287.419	122.375	-5.958	1.00	114.09	MS13
ATOM	46127	CA	ALA	M	51	287.729	122.694	-4.571	1.00	114.09	MS13
ATOM	46128	CB	ALA	M	51	288.413	124.044	-4.498	1.00	93.83	MS13
ATOM	46129	C	ALA	M	51	286.482	122.705	-3.705	1.00	114.09	MS13
ATOM	46130	O	ALA	M	51	286.485	122.181	-2.594	1.00	114.09	MS13
ATOM	46131	N	GLU	M	52	285.420	123.316	-4.218	1.00	98.51	MS13
ATOM	46132	CA	GLU	M	52	284.153	123.410	-3.502	1.00	98.51	MS13
ATOM	46133	CB	GLU	M	52	283.225	124.374	-4.243	1.00	112.14	MS13
ATOM	46134	CG	GLU	M	52	283.884	125.712	-4.529	1.00	112.14	MS13
ATOM	46135	CD	GLU	M	52	283.099	126.572	-5.497	1.00	112.14	MS13
ATOM	46136	OE1	GLU	M	52	282.737	126.073	-6.586	1.00	112.14	MS13
ATOM	46137	OE2	GLU	M	52	282.856	127.754	-5.174	1.00	112.14	MS13
ATOM	46138	C	GLU	M	52	283.508	122.032	-3.388	1.00	98.51	MS13
ATOM	46139	O	GLU	M	52	282.999	121.651	-2.330	1.00	98.51	MS13
ATOM	46140	N	VAL	M	53	283.542	121.286	-4.487	1.00	88.51	MS13
ATOM	46141	CA	VAL	M	53	282.971	119.944	-4.520	1.00	88.51	MS13
ATOM	46142	CB	VAL	M	53	283.204	119.268	-5.904	1.00	71.42	MS13
ATOM	46143	CG1	VAL	M	53	282.833	117.782	-5.847	1.00	71.42	MS13
ATOM	46144	CG2	VAL	M	53	282.374	119.992	-6.977	1.00	71.42	MS13
ATOM	46145	C	VAL	M	53	283.593	119.092	-3.423	1.00	88.51	MS13
ATOM	46146	O	VAL	M	53	282.973	118.155	-2.926	1.00	88.51	MS13
ATOM	46147	N	VAL	M	54	284.821	119.426	-3.045	1.00	115.67	MS13
ATOM	46148	CA	VAL	M	54	285.507	118.681	-2.001	1.00	115.67	MS13
ATOM	46149	CB	VAL	M	54	287.013	119.004	-1.977	1.00	104.31	MS13
ATOM	46150	CG1	VAL	M	54	287.722	118.111	-0.955	1.00	104.31	MS13
ATOM	46151	CG2	VAL	M	54	287.602	118.814	-3.361	1.00	104.31	MS13
ATOM	46152	C	VAL	M	54	284.903	119.036	-0.651	1.00	115.67	MS13
ATOM	46153	O	VAL	M	54	284.487	118.154	0.100	1.00	115.67	MS13
ATOM	46154	N	ARG	M	55	284.856	120.331	-0.349	1.00	132.77	MS13
ATOM	46155	CA	ARG	M	55	284.294	120.809	0.909	1.00	132.77	MS13
ATOM	46156	CB	ARG	M	55	284.287	122.339	0.943	1.00	97.44	MS13
ATOM	46157	CG	ARG	M	55	285.645	122.999	1.070	1.00	97.44	MS13
ATOM	46158	CD	ARG	M	55	285.500	124.518	1.079	1.00	97.44	MS13
ATOM	46159	NE	ARG	M	55	285.183	125.060	-0.243	1.00	97.44	MS13
ATOM	46160	CZ	ARG	M	55	284.852	126.330	-0.468	1.00	97.44	MS13
ATOM	46161	NH1	ARG	M	55	284.791	127.183	0.546	1.00	97.44	MS13
ATOM	46162	NH2	ARG	M	55	284.588	126.751	-1.701	1.00	97.44	MS13
ATOM	46163	C	ARG	M	55	282.861	120.309	1.065	1.00	132.77	MS13
ATOM	46164	O	ARG	M	55	282.502	119.696	2.077	1.00	132.77	MS13
ATOM	46165	N	LEU	M	56	282.049	120.588	0.049	1.00	109.61	MS13
ATOM	46166	CA	LEU	M	56	280.647	120.198	0.023	1.00	109.61	MS13
ATOM	46167	CB	LEU	M	56	280.043	120.567	-1.326	1.00	85.58	MS13
ATOM	46168	CG	LEU	M	56	278.703	121.288	-1.301	1.00	85.58	MS13
ATOM	46169	CD1	LEU	M	56	277.976	120.992	-2.608	1.00	85.58	MS13
ATOM	46170	CD2	LEU	M	56	277.876	120.824	-0.111	1.00	85.58	MS13
ATOM	46171	C	LEU	M	56	280.482	118.699	0.251	1.00	109.61	MS13
ATOM	46172	O	LEU	M	56	279.664	118.267	1.062	1.00	109.61	MS13
ATOM	46173	N	ARG	M	57	281.267	117.915	-0.481	1.00	94.79	MS13
ATOM	46174	CA	ARG	M	57	281.229	116.463	-0.384	1.00	94.79	MS13
ATOM	46175	CB	ARG	M	57	282.216	115.828	-1.371	1.00	118.59	MS13
ATOM	46176	CG	ARG	M	57	282.208	114.308	-1.360	1.00	118.59	MS13
ATOM	46177	CD	ARG	M	57	283.220	113.733	-2.328	1.00	118.59	MS13
ATOM	46178	NE	ARG	M	57	283.116	114.363	-3.641	1.00	118.59	MS13
ATOM	46179	CZ	ARG	M	57	283.644	113.868	-4.760	1.00	118.59	MS13
ATOM	46180	NH1	ARG	M	57	284.318	112.721	-4.728	1.00	118.59	MS13

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ATOM	46181	NH2	ARG	M	57	283.503	114.521	-5.912	1.00118.59	MS13
ATOM	46182	C	ARG	M	57	281.560	115.989	1.021	1.00 94.79	MS13
ATOM	46183	O	ARG	M	57	281.086	114.939	1.449	1.00 94.79	MS13
ATOM	46184	N	GLU	M	58	282.374	116.754	1.741	1.00115.04	MS13
ATOM	46185	CA	GLU	M	58	282.755	116.360	3.092	1.00115.04	MS13
ATOM	46186	CB	GLU	M	58	284.199	116.781	3.380	1.00180.64	MS13
ATOM	46187	CG	GLU	M	58	285.218	116.172	2.418	1.00180.64	MS13
ATOM	46188	CD	GLU	M	58	285.204	114.647	2.404	1.00180.64	MS13
ATOM	46189	OE1	GLU	M	58	285.893	114.059	1.543	1.00180.64	MS13
ATOM	46190	OE2	GLU	M	58	284.516	114.034	3.248	1.00180.64	MS13
ATOM	46191	C	GLU	M	58	281.818	116.916	4.155	1.00115.04	MS13
ATOM	46192	O	GLU	M	58	281.568	116.261	5.172	1.00115.04	MS13
ATOM	46193	N	TYR	M	59	281.294	118.118	3.925	1.00110.30	MS13
ATOM	46194	CA	TYR	M	59	280.374	118.702	4.890	1.00110.30	MS13
ATOM	46195	CB	TYR	M	59	280.088	120.174	4.603	1.00117.93	MS13
ATOM	46196	CG	TYR	M	59	279.019	120.692	5.534	1.00117.93	MS13
ATOM	46197	CD1	TYR	M	59	279.168	120.568	6.914	1.00117.93	MS13
ATOM	46198	CE1	TYR	M	59	278.173	120.952	7.784	1.00117.93	MS13
ATOM	46199	CD2	TYR	M	59	277.831	121.227	5.048	1.00117.93	MS13
ATOM	46200	CE2	TYR	M	59	276.821	121.618	5.917	1.00117.93	MS13
ATOM	46201	CZ	TYR	M	59	277.001	121.472	7.286	1.00117.93	MS13
ATOM	46202	OH	TYR	M	59	276.008	121.826	8.170	1.00117.93	MS13
ATOM	46203	C	TYR	M	59	279.050	117.961	4.885	1.00110.30	MS13
ATOM	46204	O	TYR	M	59	278.468	117.709	5.934	1.00110.30	MS13
ATOM	46205	N	VAL	M	60	278.575	117.626	3.693	1.00 90.30	MS13
ATOM	46206	CA	VAL	M	60	277.314	116.925	3.564	1.00 90.30	MS13
ATOM	46207	CB	VAL	M	60	276.807	116.957	2.107	1.00 79.44	MS13
ATOM	46208	CG1	VAL	M	60	275.470	116.235	2.002	1.00 79.44	MS13
ATOM	46209	CG2	VAL	M	60	276.652	118.393	1.652	1.00 79.44	MS13
ATOM	46210	C	VAL	M	60	277.419	115.478	4.030	1.00 90.30	MS13
ATOM	46211	O	VAL	M	60	276.717	115.069	4.957	1.00 90.30	MS13
ATOM	46212	N	GLU	M	61	278.291	114.701	3.398	1.00107.18	MS13
ATOM	46213	CA	GLU	M	61	278.430	113.304	3.777	1.00107.18	MS13
ATOM	46214	CB	GLU	M	61	279.600	112.660	3.040	1.00130.82	MS13
ATOM	46215	CG	GLU	M	61	279.332	112.447	1.567	1.00130.82	MS13
ATOM	46216	CD	GLU	M	61	280.358	111.548	0.921	1.00130.82	MS13
ATOM	46217	OE1	GLU	M	61	280.445	110.366	1.320	1.00130.82	MS13
ATOM	46218	OE2	GLU	M	61	281.078	112.022	0.018	1.00130.82	MS13
ATOM	46219	C	GLU	M	61	278.602	113.144	5.279	1.00107.18	MS13
ATOM	46220	O	GLU	M	61	278.018	112.243	5.890	1.00107.18	MS13
ATOM	46221	N	ASN	M	62	279.399	114.024	5.874	1.00137.58	MS13
ATOM	46222	CA	ASN	M	62	279.637	113.990	7.311	1.00137.58	MS13
ATOM	46223	CB	ASN	M	62	281.141	113.960	7.606	1.00151.25	MS13
ATOM	46224	CG	ASN	M	62	281.728	112.558	7.523	1.00151.25	MS13
ATOM	46225	OD1	ASN	M	62	282.945	112.388	7.444	1.00151.25	MS13
ATOM	46226	ND2	ASN	M	62	280.864	111.547	7.555	1.00151.25	MS13
ATOM	46227	C	ASN	M	62	279.010	115.223	7.930	1.00137.58	MS13
ATOM	46228	O	ASN	M	62	279.559	116.315	7.837	1.00137.58	MS13
ATOM	46229	N	THR	M	63	277.849	115.036	8.545	1.00130.22	MS13
ATOM	46230	CA	THR	M	63	277.103	116.114	9.190	1.00130.22	MS13
ATOM	46231	CB	THR	M	63	277.177	117.452	8.366	1.00 87.72	MS13
ATOM	46232	OG1	THR	M	63	277.535	118.537	9.229	1.00 87.72	MS13
ATOM	46233	CG2	THR	M	63	275.853	117.783	7.723	1.00 87.72	MS13
ATOM	46234	C	THR	M	63	275.650	115.642	9.317	1.00130.22	MS13
ATOM	46235	O	THR	M	63	274.971	115.944	10.297	1.00130.22	MS13
ATOM	46236	N	TRP	M	64	275.185	114.886	8.324	1.00 92.19	MS13
ATOM	46237	CA	TRP	M	64	273.823	114.360	8.328	1.00 92.19	MS13
ATOM	46238	CB	TRP	M	64	272.920	115.151	7.379	1.00 78.77	MS13
ATOM	46239	CG	TRP	M	64	272.777	116.614	7.660	1.00 78.77	MS13
ATOM	46240	CD2	TRP	M	64	272.864	117.673	6.701	1.00 78.77	MS13
ATOM	46241	CE2	TRP	M	64	272.598	118.885	7.387	1.00 78.77	MS13
ATOM	46242	CE3	TRP	M	64	273.139	117.717	5.325	1.00 78.77	MS13
ATOM	46243	CD1	TRP	M	64	272.471	117.204	8.856	1.00 78.77	MS13
ATOM	46244	NE1	TRP	M	64	272.360	118.569	8.700	1.00 78.77	MS13
ATOM	46245	CZ2	TRP	M	64	272.601	120.133	6.743	1.00 78.77	MS13
ATOM	46246	CZ3	TRP	M	64	273.141	118.960	4.684	1.00 78.77	MS13
ATOM	46247	CH2	TRP	M	64	272.874	120.152	5.397	1.00 78.77	MS13
ATOM	46248	C	TRP	M	64	273.772	112.890	7.906	1.00 92.19	MS13
ATOM	46249	O	TRP	M	64	274.736	112.334	7.366	1.00 92.19	MS13
ATOM	46250	N	LYS	M	65	272.618	112.280	8.148	1.00122.09	MS13
ATOM	46251	CA	LYS	M	65	272.376	110.886	7.810	1.00122.09	MS13
ATOM	46252	CB	LYS	M	65	271.515	110.250	8.900	1.00108.84	MS13
ATOM	46253	CG	LYS	M	65	271.776	108.782	9.157	1.00108.84	MS13
ATOM	46254	CD	LYS	M	65	271.285	108.405	10.550	1.00108.84	MS13
ATOM	46255	CE	LYS	M	65	271.660	106.977	10.924	1.00108.84	MS13
ATOM	46256	NZ	LYS	M	65	271.347	106.688	12.356	1.00108.84	MS13
ATOM	46257	C	LYS	M	65	271.624	110.916	6.490	1.00122.09	MS13

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ATOM	46258	O	LYS	M	65	270.440	111.246	6.456	1.00122.09	MS13
ATOM	46259	N	LEU	M	66	272.312	110.584	5.404	1.00 97.87	MS13
ATOM	46260	CA	LEU	M	66	271.690	110.614	4.087	1.00 97.87	MS13
ATOM	46261	CB	LEU	M	66	272.544	111.446	3.127	1.00 81.09	MS13
ATOM	46262	CG	LEU	M	66	273.136	112.770	3.633	1.00 81.09	MS13
ATOM	46263	CD1	LEU	M	66	273.691	113.538	2.433	1.00 81.09	MS13
ATOM	46264	CD2	LEU	M	66	272.086	113.610	4.346	1.00 81.09	MS13
ATOM	46265	C	LEU	M	66	271.461	109.234	3.481	1.00 97.87	MS13
ATOM	46266	O	LEU	M	66	271.548	108.214	4.171	1.00 97.87	MS13
ATOM	46267	N	GLU	M	67	271.169	109.234	2.181	1.00 95.87	MS13
ATOM	46268	CA	GLU	M	67	270.918	108.032	1.381	1.00 95.87	MS13
ATOM	46269	CB	GLU	M	67	272.078	107.804	0.415	1.00124.93	MS13
ATOM	46270	CG	GLU	M	67	272.020	108.702	-0.780	1.00124.93	MS13
ATOM	46271	CD	GLU	M	67	270.633	108.735	-1.376	1.00124.93	MS13
ATOM	46272	OE1	GLU	M	67	270.100	107.653	-1.714	1.00124.93	MS13
ATOM	46273	OE2	GLU	M	67	270.075	109.844	-1.502	1.00124.93	MS13
ATOM	46274	C	GLU	M	67	270.601	106.710	2.067	1.00 95.87	MS13
ATOM	46275	O	GLU	M	67	269.764	106.635	2.964	1.00 95.87	MS13
ATOM	46276	N	GLY	M	68	271.273	105.662	1.604	1.00 87.99	MS13
ATOM	46277	CA	GLY	M	68	271.067	104.328	2.134	1.00 87.99	MS13
ATOM	46278	C	GLY	M	68	270.975	104.191	3.639	1.00 87.99	MS13
ATOM	46279	O	GLY	M	68	270.032	103.583	4.145	1.00 87.99	MS13
ATOM	46280	N	GLU	M	69	271.953	104.739	4.355	1.00116.12	MS13
ATOM	46281	CA	GLU	M	69	271.981	104.669	5.815	1.00116.12	MS13
ATOM	46282	CB	GLU	M	69	273.147	105.502	6.347	1.00146.29	MS13
ATOM	46283	CG	GLU	M	69	273.222	105.595	7.862	1.00146.29	MS13
ATOM	46284	CD	GLU	M	69	274.445	106.363	8.334	1.00146.29	MS13
ATOM	46285	OE1	GLU	M	69	275.575	105.863	8.152	1.00146.29	MS13
ATOM	46286	OE2	GLU	M	69	274.281	107.473	8.881	1.00146.29	MS13
ATOM	46287	C	GLU	M	69	270.673	105.143	6.453	1.00116.12	MS13
ATOM	46288	O	GLU	M	69	270.261	104.632	7.498	1.00116.12	MS13
ATOM	46289	N	LEU	M	70	270.029	106.118	5.815	1.00 81.56	MS13
ATOM	46290	CA	LEU	M	70	268.770	106.681	6.298	1.00 81.56	MS13
ATOM	46291	CB	LEU	M	70	268.475	107.984	5.557	1.00 73.76	MS13
ATOM	46292	CG	LEU	M	70	267.898	109.138	6.377	1.00 73.76	MS13
ATOM	46293	CD1	LEU	M	70	267.331	110.188	5.418	1.00 73.76	MS13
ATOM	46294	CD2	LEU	M	70	266.823	108.625	7.324	1.00 73.76	MS13
ATOM	46295	C	LEU	M	70	267.597	105.713	6.104	1.00 81.56	MS13
ATOM	46296	O	LEU	M	70	266.983	105.261	7.075	1.00 81.56	MS13
ATOM	46297	N	ARG	M	71	267.287	105.419	4.840	1.00 84.57	MS13
ATOM	46298	CA	ARG	M	71	266.205	104.497	4.480	1.00 84.57	MS13
ATOM	46299	CB	ARG	M	71	266.308	104.103	3.007	1.00 85.48	MS13
ATOM	46300	CG	ARG	M	71	266.471	105.241	2.040	1.00 85.48	MS13
ATOM	46301	CD	ARG	M	71	267.027	104.699	0.749	1.00 85.48	MS13
ATOM	46302	NE	ARG	M	71	267.123	105.705	-0.303	1.00 85.48	MS13
ATOM	46303	CZ	ARG	M	71	266.073	106.277	-0.885	1.00 85.48	MS13
ATOM	46304	NH1	ARG	M	71	264.842	105.939	-0.509	1.00 85.48	MS13
ATOM	46305	NH2	ARG	M	71	266.255	107.171	-1.853	1.00 85.48	MS13
ATOM	46306	C	ARG	M	71	266.338	103.231	5.315	1.00 84.57	MS13
ATOM	46307	O	ARG	M	71	265.359	102.529	5.566	1.00 84.57	MS13
ATOM	46308	N	ALA	M	72	267.573	102.936	5.707	1.00 80.80	MS13
ATOM	46309	CA	ALA	M	72	267.872	101.772	6.521	1.00 80.80	MS13
ATOM	46310	CB	ALA	M	72	269.378	101.621	6.676	1.00168.49	MS13
ATOM	46311	C	ALA	M	72	267.231	102.013	7.873	1.00 80.80	MS13
ATOM	46312	O	ALA	M	72	266.476	101.178	8.391	1.00 80.80	MS13
ATOM	46313	N	GLU	M	73	267.548	103.174	8.436	1.00 99.72	MS13
ATOM	46314	CA	GLU	M	73	267.012	103.572	9.719	1.00 99.72	MS13
ATOM	46315	CB	GLU	M	73	267.495	104.973	10.069	1.00135.75	MS13
ATOM	46316	CG	GLU	M	73	267.023	105.461	11.416	1.00135.75	MS13
ATOM	46317	CD	GLU	M	73	267.587	106.821	11.750	1.00135.75	MS13
ATOM	46318	OE1	GLU	M	73	267.414	107.744	10.924	1.00135.75	MS13
ATOM	46319	OE2	GLU	M	73	268.201	106.970	12.831	1.00135.75	MS13
ATOM	46320	C	GLU	M	73	265.496	103.555	9.612	1.00 99.72	MS13
ATOM	46321	O	GLU	M	73	264.846	102.620	10.080	1.00 99.72	MS13
ATOM	46322	N	VAL	M	74	264.943	104.586	8.980	1.00 94.17	MS13
ATOM	46323	CA	VAL	M	74	263.498	104.703	8.794	1.00 94.17	MS13
ATOM	46324	CB	VAL	M	74	263.169	105.461	7.499	1.00 75.39	MS13
ATOM	46325	CG1	VAL	M	74	261.673	105.598	7.348	1.00 75.39	MS13
ATOM	46326	CG2	VAL	M	74	263.824	106.823	7.515	1.00 75.39	MS13
ATOM	46327	C	VAL	M	74	262.806	103.346	8.723	1.00 94.17	MS13
ATOM	46328	O	VAL	M	74	261.918	103.047	9.518	1.00 94.17	MS13
ATOM	46329	N	ALA	M	75	263.218	102.525	7.766	1.00 79.75	MS13
ATOM	46330	CA	ALA	M	75	262.626	101.210	7.595	1.00 79.75	MS13
ATOM	46331	CB	ALA	M	75	263.345	100.456	6.484	1.00149.29	MS13
ATOM	46332	C	ALA	M	75	262.671	100.409	8.893	1.00 79.75	MS13
ATOM	46333	O	ALA	M	75	261.669	99.824	9.310	1.00 79.75	MS13
ATOM	46334	N	ALA	M	76	263.837	100.380	9.528	1.00117.36	MS13

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ATOM	46335	CA	ALA	M	76	264.001	99.645	10.776	1.00117.36	MS13
ATOM	46336	CB	ALA	M	76	265.474	99.568	11.147	1.00152.41	MS13
ATOM	46337	C	ALA	M	76	263.210	100.310	11.894	1.00117.36	MS13
ATOM	46338	O	ALA	M	76	262.894	99.674	12.901	1.00117.36	MS13
ATOM	46339	N	ASN	M	77	262.900	101.592	11.711	1.00 85.87	MS13
ATOM	46340	CA	ASN	M	77	262.132	102.361	12.687	1.00 85.87	MS13
ATOM	46341	CB	ASN	M	77	262.086	103.831	12.284	1.00115.88	MS13
ATOM	46342	CG	ASN	M	77	262.767	104.729	13.285	1.00115.88	MS13
ATOM	46343	OD1	ASN	M	77	262.395	104.769	14.456	1.00115.88	MS13
ATOM	46344	ND2	ASN	M	77	263.772	105.462	12.830	1.00115.88	MS13
ATOM	46345	C	ASN	M	77	260.712	101.818	12.738	1.00 85.87	MS13
ATOM	46346	O	ASN	M	77	260.150	101.595	13.812	1.00 85.87	MS13
ATOM	46347	N	ILE	M	78	260.139	101.619	11.556	1.00 87.63	MS13
ATOM	46348	CA	ILE	M	78	258.786	101.097	11.410	1.00 87.63	MS13
ATOM	46349	CB	ILE	M	78	258.332	101.229	9.951	1.00 75.54	MS13
ATOM	46350	CG2	ILE	M	78	256.899	100.771	9.798	1.00 75.54	MS13
ATOM	46351	CG1	ILE	M	78	258.464	102.688	9.522	1.00 75.54	MS13
ATOM	46352	CD1	ILE	M	78	258.272	102.908	8.047	1.00 75.54	MS13
ATOM	46353	C	ILE	M	78	258.774	99.630	11.828	1.00 87.63	MS13
ATOM	46354	O	ILE	M	78	257.844	99.157	12.482	1.00 87.63	MS13
ATOM	46355	N	LYS	M	79	259.824	98.918	11.439	1.00 88.99	MS13
ATOM	46356	CA	LYS	M	79	259.971	97.516	11.786	1.00 88.99	MS13
ATOM	46357	CB	LYS	M	79	261.385	97.041	11.438	1.00 95.36	MS13
ATOM	46358	CG	LYS	M	79	261.490	95.579	10.998	1.00 95.36	MS13
ATOM	46359	CD	LYS	M	79	261.276	94.595	12.131	1.00 95.36	MS13
ATOM	46360	CE	LYS	M	79	261.427	93.167	11.632	1.00 95.36	MS13
ATOM	46361	NZ	LYS	M	79	261.371	92.163	12.733	1.00 95.36	MS13
ATOM	46362	C	LYS	M	79	259.761	97.462	13.290	1.00 88.99	MS13
ATOM	46363	O	LYS	M	79	259.113	96.561	13.814	1.00 88.99	MS13
ATOM	46364	N	ARG	M	80	260.299	98.467	13.970	1.00102.40	MS13
ATOM	46365	CA	ARG	M	80	260.204	98.575	15.419	1.00102.40	MS13
ATOM	46366	CB	ARG	M	80	260.933	99.842	15.884	1.00142.01	MS13
ATOM	46367	CG	ARG	M	80	260.991	100.007	17.384	1.00142.01	MS13
ATOM	46368	CD	ARG	M	80	261.076	101.467	17.775	1.00142.01	MS13
ATOM	46369	NE	ARG	M	80	260.733	101.635	19.184	1.00142.01	MS13
ATOM	46370	C2	ARG	M	80	260.334	102.779	19.729	1.00142.01	MS13
ATOM	46371	NH1	ARG	M	80	260.227	103.870	18.981	1.00142.01	MS13
ATOM	46372	NH2	ARG	M	80	260.033	102.828	21.022	1.00142.01	MS13
ATOM	46373	C	ARG	M	80	258.760	98.582	15.946	1.00102.40	MS13
ATOM	46374	O	ARG	M	80	258.246	97.552	16.410	1.00102.40	MS13
ATOM	46375	N	LEU	M	81	258.107	99.742	15.875	1.00105.77	MS13
ATOM	46376	CA	LEU	M	81	256.741	99.863	16.376	1.00105.77	MS13
ATOM	46377	CB	LEU	M	81	256.170	101.283	16.145	1.00 63.45	MS13
ATOM	46378	CG	LEU	M	81	256.306	102.051	14.831	1.00 63.45	MS13
ATOM	46379	CD1	LEU	M	81	257.341	103.170	14.952	1.00 63.45	MS13
ATOM	46380	CD2	LEU	M	81	256.653	101.071	13.743	1.00 63.45	MS13
ATOM	46381	C	LEU	M	81	255.832	98.820	15.768	1.00105.77	MS13
ATOM	46382	O	LEU	M	81	254.684	98.668	16.170	1.00105.77	MS13
ATOM	46383	N	MET	M	82	256.359	98.079	14.809	1.00 79.13	MS13
ATOM	46384	CA	MET	M	82	255.570	97.048	14.165	1.00 79.13	MS13
ATOM	46385	CB	MET	M	82	255.974	96.928	12.706	1.00125.87	MS13
ATOM	46386	CG	MET	M	82	255.032	96.082	11.906	1.00125.87	MS13
ATOM	46387	SD	MET	M	82	255.520	96.093	10.206	1.00125.87	MS13
ATOM	46388	CE	MET	M	82	255.511	97.852	9.879	1.00125.87	MS13
ATOM	46389	C	MET	M	82	255.705	95.689	14.851	1.00 79.13	MS13
ATOM	46390	O	MET	M	82	254.868	94.809	14.669	1.00 79.13	MS13
ATOM	46391	N	ASP	M	83	256.763	95.517	15.634	1.00110.13	MS13
ATOM	46392	CA	ASP	M	83	256.974	94.260	16.338	1.00110.13	MS13
ATOM	46393	CB	ASP	M	83	258.450	93.955	16.411	1.00102.07	MS13
ATOM	46394	CG	ASP	M	83	259.052	93.795	15.051	1.00102.07	MS13
ATOM	46395	OD1	ASP	M	83	258.622	92.880	14.319	1.00102.07	MS13
ATOM	46396	OD2	ASP	M	83	259.943	94.591	14.709	1.00102.07	MS13
ATOM	46397	C	ASP	M	83	256.398	94.385	17.722	1.00110.13	MS13
ATOM	46398	O	ASP	M	83	255.978	93.401	18.331	1.00110.13	MS13
ATOM	46399	N	ILE	M	84	256.394	95.614	18.215	1.00104.79	MS13
ATOM	46400	CA	ILE	M	84	255.827	95.903	19.512	1.00104.79	MS13
ATOM	46401	CB	ILE	M	84	256.521	97.151	20.123	1.00 78.57	MS13
ATOM	46402	CG2	ILE	M	84	257.997	97.122	19.755	1.00 78.57	MS13
ATOM	46403	CG1	ILE	M	84	255.962	98.453	19.547	1.00 78.57	MS13
ATOM	46404	CD1	ILE	M	84	256.585	99.710	20.153	1.00 78.57	MS13
ATOM	46405	C	ILE	M	84	254.337	96.134	19.200	1.00104.79	MS13
ATOM	46406	O	ILE	M	84	254.002	96.872	18.269	1.00104.79	MS13
ATOM	46407	N	GLY	M	85	253.457	95.464	19.944	1.00112.59	MS13
ATOM	46408	CA	GLY	M	85	252.014	95.568	19.728	1.00112.59	MS13
ATOM	46409	C	GLY	M	85	251.445	96.878	19.205	1.00112.59	MS13
ATOM	46410	O	GLY	M	85	250.385	96.900	18.583	1.00112.59	MS13
ATOM	46411	N	CYS	M	86	252.160	97.964	19.477	1.00 82.65	MS13

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ATOM	46412	CA	CYS	M	86	251.803	99.321	19.079	1.00	82.65	MS13
ATOM	46413	CB	CYS	M	86	253.087	100.092	18.744	1.00	111.12	MS13
ATOM	46414	SG	CYS	M	86	252.884	101.839	18.328	1.00	111.12	MS13
ATOM	46415	C	CYS	M	86	250.813	99.442	17.923	1.00	82.65	MS13
ATOM	46416	O	CYS	M	86	251.078	98.994	16.806	1.00	82.65	MS13
ATOM	46417	N	TYR	M	87	249.669	100.053	18.217	1.00	102.18	MS13
ATOM	46418	CA	TYR	M	87	248.602	100.297	17.246	1.00	102.18	MS13
ATOM	46419	CB	TYR	M	87	247.610	101.304	17.836	1.00	103.08	MS13
ATOM	46420	CG	TYR	M	87	246.557	101.841	16.887	1.00	103.08	MS13
ATOM	46421	CD1	TYR	M	87	245.477	101.052	16.481	1.00	103.08	MS13
ATOM	46422	CE1	TYR	M	87	244.466	101.576	15.677	1.00	103.08	MS13
ATOM	46423	CD2	TYR	M	87	246.604	103.165	16.453	1.00	103.08	MS13
ATOM	46424	CE2	TYR	M	87	245.602	103.696	15.648	1.00	103.08	MS13
ATOM	46425	CZ	TYR	M	87	244.536	102.899	15.270	1.00	103.08	MS13
ATOM	46426	OH	TYR	M	87	243.526	103.446	14.515	1.00	103.08	MS13
ATOM	46427	C	TYR	M	87	249.230	100.882	15.995	1.00	102.18	MS13
ATOM	46428	O	TYR	M	87	249.010	100.402	14.883	1.00	102.18	MS13
ATOM	46429	N	ARG	M	88	250.011	101.934	16.204	1.00	87.03	MS13
ATOM	46430	CA	ARG	M	88	250.707	102.620	15.130	1.00	87.03	MS13
ATOM	46431	CB	ARG	M	88	251.772	103.544	15.725	1.00	105.19	MS13
ATOM	46432	CG	ARG	M	88	252.137	104.759	14.896	1.00	105.19	MS13
ATOM	46433	CD	ARG	M	88	253.421	105.358	15.433	1.00	105.19	MS13
ATOM	46434	NE	ARG	M	88	253.668	106.714	14.958	1.00	105.19	MS13
ATOM	46435	CZ	ARG	M	88	254.829	107.346	15.097	1.00	105.19	MS13
ATOM	46436	NH1	ARG	M	88	255.845	106.735	15.691	1.00	105.19	MS13
ATOM	46437	NH2	ARG	M	88	254.974	108.590	14.653	1.00	105.19	MS13
ATOM	46438	C	ARG	M	88	251.370	101.553	14.263	1.00	87.03	MS13
ATOM	46439	O	ARG	M	88	251.287	101.591	13.038	1.00	87.03	MS13
ATOM	46440	N	GLY	M	89	252.023	100.593	14.908	1.00	106.61	MS13
ATOM	46441	CA	GLY	M	89	252.679	99.532	14.166	1.00	106.61	MS13
ATOM	46442	C	GLY	M	89	251.666	98.709	13.400	1.00	106.61	MS13
ATOM	46443	O	GLY	M	89	251.882	98.345	12.245	1.00	106.61	MS13
ATOM	46444	N	LEU	M	90	250.551	98.415	14.055	1.00	85.17	MS13
ATOM	46445	CA	LEU	M	90	249.499	97.641	13.427	1.00	85.17	MS13
ATOM	46446	CB	LEU	M	90	248.371	97.363	14.425	1.00	103.93	MS13
ATOM	46447	CG	LEU	M	90	248.741	96.511	15.645	1.00	103.93	MS13
ATOM	46448	CD1	LEU	M	90	247.531	96.382	16.558	1.00	103.93	MS13
ATOM	46449	CD2	LEU	M	90	249.229	95.141	15.201	1.00	103.93	MS13
ATOM	46450	C	LEU	M	90	248.960	98.383	12.208	1.00	85.17	MS13
ATOM	46451	O	LEU	M	90	248.701	97.764	11.179	1.00	85.17	MS13
ATOM	46452	N	ARG	M	91	248.794	99.701	12.312	1.00	81.60	MS13
ATOM	46453	CA	ARG	M	91	248.298	100.470	11.171	1.00	81.60	MS13
ATOM	46454	CB	ARG	M	91	248.193	101.964	11.496	1.00	91.19	MS13
ATOM	46455	CG	ARG	M	91	247.208	102.288	12.591	1.00	91.19	MS13
ATOM	46456	CD	ARG	M	91	245.849	101.687	12.300	1.00	91.19	MS13
ATOM	46457	NE	ARG	M	91	245.066	102.476	11.358	1.00	91.19	MS13
ATOM	46458	CZ	ARG	M	91	243.836	102.149	10.974	1.00	91.19	MS13
ATOM	46459	NH1	ARG	M	91	243.264	101.051	11.451	1.00	91.19	MS13
ATOM	46460	NH2	ARG	M	91	243.171	102.921	10.123	1.00	91.19	MS13
ATOM	46461	C	ARG	M	91	249.235	100.282	9.987	1.00	81.60	MS13
ATOM	46462	O	ARG	M	91	248.819	100.361	8.834	1.00	81.60	MS13
ATOM	46463	N	HIS	M	92	250.508	100.037	10.263	1.00	91.46	MS13
ATOM	46464	CA	HIS	M	92	251.448	99.829	9.178	1.00	91.46	MS13
ATOM	46465	CB	HIS	M	92	252.888	99.933	9.695	1.00	83.97	MS13
ATOM	46466	CG	HIS	M	92	253.424	101.334	9.715	1.00	83.97	MS13
ATOM	46467	CD2	HIS	M	92	253.597	102.211	10.733	1.00	83.97	MS13
ATOM	46468	ND1	HIS	M	92	253.847	101.986	8.576	1.00	83.97	MS13
ATOM	46469	CE1	HIS	M	92	254.258	103.202	8.892	1.00	83.97	MS13
ATOM	46470	NE2	HIS	M	92	254.116	103.364	10.195	1.00	83.97	MS13
ATOM	46471	C	HIS	M	92	251.174	98.467	8.539	1.00	91.46	MS13
ATOM	46472	O	HIS	M	92	251.053	98.378	7.319	1.00	91.46	MS13
ATOM	46473	N	ARG	M	93	251.050	97.421	9.359	1.00	85.09	MS13
ATOM	46474	CA	ARG	M	93	250.773	96.067	8.867	1.00	85.09	MS13
ATOM	46475	CB	ARG	M	93	250.502	95.113	10.020	1.00	156.62	MS13
ATOM	46476	CG	ARG	M	93	251.632	94.934	10.970	1.00	156.62	MS13
ATOM	46477	CD	ARG	M	93	251.179	94.038	12.084	1.00	156.62	MS13
ATOM	46478	NE	ARG	M	93	252.224	93.828	13.072	1.00	156.62	MS13
ATOM	46479	CZ	ARG	M	93	252.065	93.105	14.174	1.00	156.62	MS13
ATOM	46480	NH1	ARG	M	93	250.899	92.523	14.422	1.00	156.62	MS13
ATOM	46481	NH2	ARG	M	93	253.072	92.959	15.026	1.00	156.62	MS13
ATOM	46482	C	ARG	M	93	249.550	96.045	7.958	1.00	85.09	MS13
ATOM	46483	O	ARG	M	93	249.606	95.531	6.839	1.00	85.09	MS13
ATOM	46484	N	ARG	M	94	248.436	96.578	8.460	1.00	99.14	MS13
ATOM	46485	CA	ARG	M	94	247.187	96.630	7.703	1.00	99.14	MS13
ATOM	46486	CB	ARG	M	94	246.043	97.122	8.595	1.00	141.63	MS13
ATOM	46487	CG	ARG	M	94	245.572	96.118	9.626	1.00	141.63	MS13
ATOM	46488	CD	ARG	M	94	244.916	94.935	8.950	1.00	141.63	MS13

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ATOM	46489	NE	ARG	M	94	244.452	93.937	9.910	1.00141.63	MS13
ATOM	46490	CZ	ARG	M	94	243.867	92.789	9.573	1.00141.63	MS13
ATOM	46491	NH1	ARG	M	94	243.669	92.488	8.295	1.00141.63	MS13
ATOM	46492	NH2	ARG	M	94	243.481	91.935	10.515	1.00141.63	MS13
ATOM	46493	C	ARG	M	94	247.330	97.557	6.505	1.00 99.14	MS13
ATOM	46494	O	ARG	M	94	246.512	97.528	5.590	1.00 99.14	MS13
ATOM	46495	N	GLY	M	95	248.376	98.376	6.514	1.00 84.18	MS13
ATOM	46496	CA	GLY	M	95	248.591	99.299	5.420	1.00 84.18	MS13
ATOM	46497	C	GLY	M	95	247.495	100.351	5.353	1.00 84.18	MS13
ATOM	46498	O	GLY	M	95	247.092	100.780	4.263	1.00 84.18	MS13
ATOM	46499	N	LEU	M	96	246.995	100.756	6.519	1.00 75.96	MS13
ATOM	46500	CA	LEU	M	96	245.956	101.778	6.613	1.00 75.96	MS13
ATOM	46501	CB	LEU	M	96	244.856	101.334	7.564	1.00 75.77	MS13
ATOM	46502	CG	LEU	M	96	244.096	100.066	7.192	1.00 75.77	MS13
ATOM	46503	CD1	LEU	M	96	243.291	99.571	8.385	1.00 75.77	MS13
ATOM	46504	CD2	LEU	M	96	243.197	100.356	6.001	1.00 75.77	MS13
ATOM	46505	C	LEU	M	96	246.621	103.010	7.185	1.00 75.96	MS13
ATOM	46506	O	LEU	M	96	247.641	102.907	7.860	1.00 75.96	MS13
ATOM	46507	N	PRO	M	97	246.060	104.196	6.931	1.00 75.54	MS13
ATOM	46508	CD	PRO	M	97	244.812	104.541	6.239	1.00 80.85	MS13
ATOM	46509	CA	PRO	M	97	246.701	105.391	7.486	1.00 75.54	MS13
ATOM	46510	CB	PRO	M	97	245.713	106.510	7.143	1.00 80.85	MS13
ATOM	46511	CG	PRO	M	97	244.403	105.783	6.975	1.00 80.85	MS13
ATOM	46512	C	PRO	M	97	247.013	105.284	8.986	1.00 75.54	MS13
ATOM	46513	O	PRO	M	97	246.274	104.669	9.771	1.00 75.54	MS13
ATOM	46514	N	VAL	M	98	248.134	105.889	9.359	1.00100.24	MS13
ATOM	46515	CA	VAL	M	98	248.620	105.876	10.726	1.00100.24	MS13
ATOM	46516	CB	VAL	M	98	250.159	105.845	10.746	1.00127.13	MS13
ATOM	46517	CG1	VAL	M	98	250.659	105.848	12.174	1.00127.13	MS13
ATOM	46518	CG2	VAL	M	98	250.665	104.627	10.000	1.00127.13	MS13
ATOM	46519	C	VAL	M	98	248.173	107.071	11.550	1.00100.24	MS13
ATOM	46520	O	VAL	M	98	247.681	106.911	12.660	1.00100.24	MS13
ATOM	46521	N	ARG	M	99	248.344	108.267	11.002	1.00 84.84	MS13
ATOM	46522	CA	ARG	M	99	248.009	109.501	11.707	1.00 84.84	MS13
ATOM	46523	CB	ARG	M	99	248.677	110.681	10.993	1.00 87.47	MS13
ATOM	46524	CG	ARG	M	99	250.105	110.317	10.619	1.00 87.47	MS13
ATOM	46525	CD	ARG	M	99	251.030	111.465	10.288	1.00 87.47	MS13
ATOM	46526	NE	ARG	M	99	252.389	110.935	10.289	1.00 87.47	MS13
ATOM	46527	CZ	ARG	M	99	253.489	111.633	10.039	1.00 87.47	MS13
ATOM	46528	NH1	ARG	M	99	253.414	112.928	9.753	1.00 87.47	MS13
ATOM	46529	NH2	ARG	M	99	254.671	111.027	10.093	1.00 87.47	MS13
ATOM	46530	C	ARG	M	99	246.532	109.772	11.935	1.00 84.84	MS13
ATOM	46531	O	ARG	M	99	246.016	110.822	11.553	1.00 84.84	MS13
ATOM	46532	N	GLY	M	100	245.877	108.811	12.583	1.00107.32	MS13
ATOM	46533	CA	GLY	M	100	244.464	108.901	12.915	1.00107.32	MS13
ATOM	46534	C	GLY	M	100	243.567	109.690	11.984	1.00107.32	MS13
ATOM	46535	O	GLY	M	100	242.924	110.659	12.390	1.00107.32	MS13
ATOM	46536	N	GLN	M	101	243.511	109.278	10.729	1.00 92.08	MS13
ATOM	46537	CA	GLN	M	101	242.672	109.970	9.779	1.00 92.08	MS13
ATOM	46538	CB	GLN	M	101	243.426	110.127	8.461	1.00 80.77	MS13
ATOM	46539	CG	GLN	M	101	244.734	110.931	8.605	1.00 80.77	MS13
ATOM	46540	CD	GLN	M	101	245.998	110.142	8.220	1.00 80.77	MS13
ATOM	46541	OE1	GLN	M	101	246.230	109.029	8.706	1.00 80.77	MS13
ATOM	46542	NE2	GLN	M	101	246.824	110.731	7.352	1.00 80.77	MS13
ATOM	46543	C	GLN	M	101	241.394	109.154	9.616	1.00 92.08	MS13
ATOM	46544	O	GLN	M	101	241.065	108.317	10.477	1.00 92.08	MS13
ATOM	46545	N	ARG	M	102	240.667	109.399	8.531	1.00 88.72	MS13
ATOM	46546	CA	ARG	M	102	239.420	108.681	8.274	1.00 88.72	MS13
ATOM	46547	CB	ARG	M	102	238.356	109.649	7.761	1.00101.80	MS13
ATOM	46548	CG	ARG	M	102	238.872	110.600	6.701	1.00101.80	MS13
ATOM	46549	CD	ARG	M	102	237.782	111.020	5.721	1.00101.80	MS13
ATOM	46550	NE	ARG	M	102	236.630	111.675	6.344	1.00101.80	MS13
ATOM	46551	CZ	ARG	M	102	235.603	111.040	6.904	1.00101.80	MS13
ATOM	46552	NH1	ARG	M	102	235.569	109.713	6.933	1.00101.80	MS13
ATOM	46553	NH2	ARG	M	102	234.597	111.738	7.421	1.00101.80	MS13
ATOM	46554	C	ARG	M	102	239.627	107.585	7.245	1.00 88.72	MS13
ATOM	46555	O	ARG	M	102	240.185	107.844	6.187	1.00 88.72	MS13
ATOM	46556	N	THR	M	103	239.182	106.368	7.542	1.00 84.80	MS13
ATOM	46557	CA	THR	M	103	239.346	105.280	6.581	1.00 84.80	MS13
ATOM	46558	CB	THR	M	103	239.985	104.031	7.220	1.00 97.63	MS13
ATOM	46559	OG1	THR	M	103	239.020	103.356	8.033	1.00 97.63	MS13
ATOM	46560	CG2	THR	M	103	241.184	104.424	8.064	1.00 97.63	MS13
ATOM	46561	C	THR	M	103	238.011	104.875	5.960	1.00 84.80	MS13
ATOM	46562	O	THR	M	103	237.877	103.789	5.364	1.00 84.80	MS13
ATOM	46563	N	ARG	M	104	237.024	105.754	6.106	1.00 67.89	MS13
ATOM	46564	CA	ARG	M	104	235.702	105.497	5.563	1.00 67.89	MS13
ATOM	46565	CB	ARG	M	104	234.633	106.251	6.345	1.00 92.46	MS13

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ATOM	46566	CG	ARG	M	104	233.252	106.068	5.765	1.00	92.46	MS13
ATOM	46567	CD	ARG	M	104	232.170	106.488	6.728	1.00	92.46	MS13
ATOM	46568	NE	ARG	M	104	230.863	106.423	6.090	1.00	92.46	MS13
ATOM	46569	CZ	ARG	M	104	229.711	106.595	6.727	1.00	92.46	MS13
ATOM	46570	NH1	ARG	M	104	229.699	106.844	8.031	1.00	92.46	MS13
ATOM	46571	NH2	ARG	M	104	228.570	106.522	6.057	1.00	92.46	MS13
ATOM	46572	C	ARG	M	104	235.706	105.962	4.138	1.00	67.89	MS13
ATOM	46573	O	ARG	M	104	234.974	105.454	3.299	1.00	67.89	MS13
ATOM	46574	N	THR	M	105	236.545	106.942	3.865	1.00	76.42	MS13
ATOM	46575	CA	THR	M	105	236.633	107.440	2.520	1.00	76.42	MS13
ATOM	46576	CB	THR	M	105	235.698	108.670	2.332	1.00	66.66	MS13
ATOM	46577	OG1	THR	M	105	235.641	109.428	3.544	1.00	66.66	MS13
ATOM	46578	CG2	THR	M	105	234.279	108.210	1.985	1.00	66.66	MS13
ATOM	46579	C	THR	M	105	238.086	107.726	2.136	1.00	76.42	MS13
ATOM	46580	O	THR	M	105	238.949	106.857	2.307	1.00	76.42	MS13
ATOM	46581	N	ASN	M	106	238.363	108.917	1.618	1.00	94.20	MS13
ATOM	46582	CA	ASN	M	106	239.716	109.256	1.198	1.00	94.20	MS13
ATOM	46583	CB	ASN	M	106	239.884	110.766	1.091	1.00	84.51	MS13
ATOM	46584	CG	ASN	M	106	238.588	111.500	1.207	1.00	84.51	MS13
ATOM	46585	OD1	ASN	M	106	237.758	111.471	0.296	1.00	84.51	MS13
ATOM	46586	ND2	ASN	M	106	238.392	112.168	2.338	1.00	84.51	MS13
ATOM	46587	C	ASN	M	106	240.800	108.724	2.128	1.00	94.20	MS13
ATOM	46588	O	ASN	M	106	240.837	109.053	3.315	1.00	94.20	MS13
ATOM	46589	N	ALA	M	107	241.691	107.916	1.568	1.00	80.44	MS13
ATOM	46590	CA	ALA	M	107	242.812	107.328	2.292	1.00	80.44	MS13
ATOM	46591	CB	ALA	M	107	242.328	106.457	3.444	1.00	52.28	MS13
ATOM	46592	C	ALA	M	107	243.445	106.469	1.234	1.00	80.44	MS13
ATOM	46593	O	ALA	M	107	244.191	105.535	1.523	1.00	80.44	MS13
ATOM	46594	N	ARG	M	108	243.111	106.800	-0.007	1.00	87.00	MS13
ATOM	46595	CA	ARG	M	108	243.599	106.067	-1.153	1.00	87.00	MS13
ATOM	46596	CB	ARG	M	108	243.079	106.698	-2.452	1.00	78.60	MS13
ATOM	46597	CG	ARG	M	108	241.549	106.649	-2.659	1.00	78.60	MS13
ATOM	46598	CD	ARG	M	108	240.834	105.441	-2.007	1.00	78.60	MS13
ATOM	46599	NE	ARG	M	108	241.454	104.143	-2.274	1.00	78.60	MS13
ATOM	46600	CZ	ARG	M	108	240.930	102.976	-1.900	1.00	78.60	MS13
ATOM	46601	NH1	ARG	M	108	239.773	102.947	-1.250	1.00	78.60	MS13
ATOM	46602	NH2	ARG	M	108	241.559	101.837	-2.160	1.00	78.60	MS13
ATOM	46603	C	ARG	M	108	245.115	106.018	-1.177	1.00	87.00	MS13
ATOM	46604	O	ARG	M	108	245.715	104.949	-1.357	1.00	87.00	MS13
ATOM	46605	N	THR	M	109	245.733	107.179	-0.988	1.00	56.75	MS13
ATOM	46606	CA	THR	M	109	247.190	107.272	-1.007	1.00	56.75	MS13
ATOM	46607	CB	THR	M	109	247.629	108.665	-0.527	1.00	67.77	MS13
ATOM	46608	OG1	THR	M	109	248.991	108.901	-0.889	1.00	67.77	MS13
ATOM	46609	CG2	THR	M	109	247.494	108.759	0.956	1.00	67.77	MS13
ATOM	46610	C	THR	M	109	247.836	106.168	-0.151	1.00	56.75	MS13
ATOM	46611	O	THR	M	109	248.842	105.583	-0.525	1.00	56.75	MS13
ATOM	46612	N	ARG	M	110	247.229	105.862	0.986	1.00	68.22	MS13
ATOM	46613	CA	ARG	M	110	247.761	104.830	1.860	1.00	68.22	MS13
ATOM	46614	CB	ARG	M	110	247.445	105.174	3.321	1.00	91.85	MS13
ATOM	46615	CG	ARG	M	110	248.324	104.454	4.321	1.00	91.85	MS13
ATOM	46616	CD	ARG	M	110	249.555	105.275	4.686	1.00	91.85	MS13
ATOM	46617	NE	ARG	M	110	250.724	104.443	4.981	1.00	91.85	MS13
ATOM	46618	CZ	ARG	M	110	250.725	103.367	5.771	1.00	91.85	MS13
ATOM	46619	NH1	ARG	M	110	249.612	102.961	6.368	1.00	91.85	MS13
ATOM	46620	NH2	ARG	M	110	251.851	102.686	5.964	1.00	91.85	MS13
ATOM	46621	C	ARG	M	110	247.179	103.452	1.512	1.00	68.22	MS13
ATOM	46622	O	ARG	M	110	247.838	102.438	1.706	1.00	68.22	MS13
ATOM	46623	N	LYS	M	111	245.949	103.423	0.995	1.00	89.43	MS13
ATOM	46624	CA	LYS	M	111	245.273	102.168	0.642	1.00	89.43	MS13
ATOM	46625	CB	LYS	M	111	243.749	102.322	0.761	1.00	71.75	MS13
ATOM	46626	CG	LYS	M	111	243.232	102.517	2.180	1.00	71.75	MS13
ATOM	46627	CD	LYS	M	111	241.714	102.718	2.235	1.00	71.75	MS13
ATOM	46628	CE	LYS	M	111	240.921	101.428	2.003	1.00	71.75	MS13
ATOM	46629	NZ	LYS	M	111	239.443	101.659	2.162	1.00	71.75	MS13
ATOM	46630	C	LYS	M	111	245.596	101.647	-0.753	1.00	89.43	MS13
ATOM	46631	O	LYS	M	111	245.662	100.439	-0.971	1.00	89.43	MS13
ATOM	46632	N	GLY	M	112	245.774	102.555	-1.704	1.00	88.62	MS13
ATOM	46633	CA	GLY	M	112	246.085	102.138	-3.058	1.00	88.62	MS13
ATOM	46634	C	GLY	M	112	244.955	102.381	-4.041	1.00	88.62	MS13
ATOM	46635	O	GLY	M	112	244.183	103.328	-3.880	1.00	88.62	MS13
ATOM	46636	N	PRO	M	113	244.850	101.552	-5.091	1.00	93.21	MS13
ATOM	46637	CD	PRO	M	113	245.946	100.678	-5.540	1.00	103.62	MS13
ATOM	46638	CA	PRO	M	113	243.812	101.651	-6.127	1.00	93.21	MS13
ATOM	46639	CB	PRO	M	113	244.319	100.699	-7.206	1.00	103.62	MS13
ATOM	46640	CG	PRO	M	113	245.816	100.766	-7.036	1.00	103.62	MS13
ATOM	46641	C	PRO	M	113	242.431	101.254	-5.597	1.00	93.21	MS13
ATOM	46642	O	PRO	M	113	242.298	100.270	-4.863	1.00	93.21	MS13

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ATOM	46643	N	ARG	M	114	241.405	102.013	-5.975	1.00	98.05	MS13
ATOM	46644	CA	ARG	M	114	240.052	101.738	-5.498	1.00	98.05	MS13
ATOM	46645	CB	ARG	M	114	239.080	102.785	-6.032	1.00	96.99	MS13
ATOM	46646	CG	ARG	M	114	237.994	103.153	-5.036	1.00	96.99	MS13
ATOM	46647	CD	ARG	M	114	237.106	104.268	-5.567	1.00	96.99	MS13
ATOM	46648	NE	ARG	M	114	237.848	105.494	-5.861	1.00	96.99	MS13
ATOM	46649	CZ	ARG	M	114	238.208	106.404	-4.959	1.00	96.99	MS13
ATOM	46650	NH1	ARG	M	114	237.890	106.231	-3.678	1.00	96.99	MS13
ATOM	46651	NH2	ARG	M	114	238.887	107.487	-5.347	1.00	96.99	MS13
ATOM	46652	C	ARG	M	114	239.618	100.351	-5.925	1.00	98.05	MS13
ATOM	46653	O	ARG	M	114	239.525	100.071	-7.114	1.00	98.05	MS13
ATOM	46654	N	LYS	M	115	239.343	99.491	-4.949	1.00	71.93	MS13
ATOM	46655	CA	LYS	M	115	238.952	98.101	-5.217	1.00	71.93	MS13
ATOM	46656	CB	LYS	M	115	239.666	97.191	-4.223	1.00	94.94	MS13
ATOM	46657	CG	LYS	M	115	241.054	97.684	-3.856	1.00	94.94	MS13
ATOM	46658	CD	LYS	M	115	241.505	97.133	-2.511	1.00	94.94	MS13
ATOM	46659	CE	LYS	M	115	241.519	95.621	-2.529	1.00	94.94	MS13
ATOM	46660	NZ	LYS	M	115	242.231	95.128	-3.745	1.00	94.94	MS13
ATOM	46661	C	LYS	M	115	237.444	97.821	-5.151	1.00	71.93	MS13
ATOM	46662	O	LYS	M	115	236.990	97.049	-4.296	1.00	71.93	MS13
ATOM	46663	N	THR	M	116	236.686	98.424	-6.068	1.00	70.05	MS13
ATOM	46664	CA	THR	M	116	235.225	98.284	-6.135	1.00	70.05	MS13
ATOM	46665	CB	THR	M	116	234.707	98.713	-7.531	1.00	105.66	MS13
ATOM	46666	OG1	THR	M	116	235.061	100.082	-7.776	1.00	105.66	MS13
ATOM	46667	CG2	THR	M	116	233.193	98.576	-7.608	1.00	105.66	MS13
ATOM	46668	C	THR	M	116	234.672	96.887	-5.805	1.00	70.05	MS13
ATOM	46669	O	THR	M	116	235.288	95.877	-6.129	1.00	70.05	MS13
ATOM	46670	N	VAL	M	117	233.509	96.843	-5.153	1.00	98.01	MS13
ATOM	46671	CA	VAL	M	117	232.861	95.582	-4.767	1.00	98.01	MS13
ATOM	46672	CB	VAL	M	117	233.066	95.279	-3.259	1.00	85.20	MS13
ATOM	46673	CG1	VAL	M	117	232.562	93.879	-2.926	1.00	85.20	MS13
ATOM	46674	CG2	VAL	M	117	234.534	95.429	-2.891	1.00	85.20	MS13
ATOM	46675	C	VAL	M	117	231.357	95.677	-5.022	1.00	98.01	MS13
ATOM	46676	O	VAL	M	117	230.849	96.749	-5.346	1.00	98.01	MS13
ATOM	46677	N	ALA	M	118	230.650	94.561	-4.873	1.00	106.46	MS13
ATOM	46678	CA	ALA	M	118	229.203	94.542	-5.068	1.00	106.46	MS13
ATOM	46679	CB	ALA	M	118	228.687	93.126	-4.923	1.00	73.91	MS13
ATOM	46680	C	ALA	M	118	228.540	95.461	-4.028	1.00	106.46	MS13
ATOM	46681	O	ALA	M	118	229.222	95.970	-3.131	1.00	106.46	MS13
ATOM	46682	N	GLY	M	119	227.225	95.676	-4.135	1.00	122.02	MS13
ATOM	46683	CA	GLY	M	119	226.555	96.547	-3.176	1.00	122.02	MS13
ATOM	46684	C	GLY	M	119	225.032	96.612	-3.158	1.00	122.02	MS13
ATOM	46685	O	GLY	M	119	224.348	95.825	-3.813	1.00	122.02	MS13
ATOM	46686	N	LYS	M	120	224.513	97.568	-2.386	1.00	158.16	MS13
ATOM	46687	CA	LYS	M	120	223.073	97.795	-2.231	1.00	158.16	MS13
ATOM	46688	CB	LYS	M	120	222.692	97.721	-0.747	1.00	174.05	MS13
ATOM	46689	CG	LYS	M	120	221.281	98.216	-0.426	1.00	174.05	MS13
ATOM	46690	CD	LYS	M	120	221.036	98.266	1.080	1.00	174.05	MS13
ATOM	46691	CE	LYS	M	120	219.729	98.974	1.416	1.00	174.05	MS13
ATOM	46692	NZ	LYS	M	120	219.538	99.141	2.887	1.00	174.05	MS13
ATOM	46693	C	LYS	M	120	222.669	99.164	-2.795	1.00	158.16	MS13
ATOM	46694	O	LYS	M	120	223.094	100.206	-2.287	1.00	158.16	MS13
ATOM	46695	N	LYS	M	121	221.828	99.152	-3.828	1.00	144.24	MS13
ATOM	46696	CA	LYS	M	121	221.378	100.382	-4.490	1.00	144.24	MS13
ATOM	46697	CB	LYS	M	121	220.917	100.076	-5.928	1.00	141.14	MS13
ATOM	46698	CG	LYS	M	121	222.002	99.529	-6.875	1.00	141.14	MS13
ATOM	46699	CD	LYS	M	121	222.306	98.048	-6.630	1.00	141.14	MS13
ATOM	46700	CE	LYS	M	121	223.275	97.489	-7.667	1.00	141.14	MS13
ATOM	46701	NZ	LYS	M	121	223.524	96.034	-7.468	1.00	141.14	MS13
ATOM	46702	C	LYS	M	121	220.278	101.176	-3.769	1.00	144.24	MS13
ATOM	46703	O	LYS	M	121	220.575	101.973	-2.876	1.00	144.24	MS13
ATOM	46704	N	LYS	M	122	219.023	100.958	-4.176	1.00	198.84	MS13
ATOM	46705	CA	LYS	M	122	217.861	101.654	-3.606	1.00	198.84	MS13
ATOM	46706	CB	LYS	M	122	216.556	100.901	-3.928	1.00	100.95	MS13
ATOM	46707	CG	LYS	M	122	215.292	101.518	-3.295	1.00	100.95	MS13
ATOM	46708	CD	LYS	M	122	215.124	102.995	-3.658	1.00	100.95	MS13
ATOM	46709	CE	LYS	M	122	213.937	103.615	-2.947	1.00	100.95	MS13
ATOM	46710	NZ	LYS	M	122	213.765	105.033	-3.340	1.00	100.95	MS13
ATOM	46711	C	LYS	M	122	217.968	101.882	-2.104	1.00	198.84	MS13
ATOM	46712	O	LYS	M	122	217.475	101.094	-1.292	1.00	198.84	MS13
ATOM	46713	N	ALA	M	123	218.616	102.989	-1.765	1.00	198.84	MS13
ATOM	46714	CA	ALA	M	123	218.855	103.417	-0.393	1.00	198.84	MS13
ATOM	46715	CB	ALA	M	123	219.439	102.269	0.441	1.00	160.30	MS13
ATOM	46716	C	ALA	M	123	219.877	104.541	-0.533	1.00	198.84	MS13
ATOM	46717	O	ALA	M	123	221.059	104.353	-0.228	1.00	198.84	MS13
ATOM	46718	N	PRO	M	124	219.428	105.725	-1.004	1.00	198.84	MS13
ATOM	46719	CD	PRO	M	124	217.996	106.081	-1.099	1.00	186.24	MS13

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ATOM	46720	CA	PRO	M	124	220.257	106.916	-1.215	1.00198.84	MS13
ATOM	46721	CB	PRO	M	124	219.318	108.042	-0.810	1.00186.24	MS13
ATOM	46722	CG	PRO	M	124	218.033	107.581	-1.428	1.00186.24	MS13
ATOM	46723	C	PRO	M	124	221.612	106.956	-0.496	1.00198.84	MS13
ATOM	46724	O	PRO	M	124	221.789	107.650	0.514	1.00198.84	MS13
ATOM	46725	N	ARG	M	125	222.564	106.197	-1.039	1.00198.84	MS13
ATOM	46726	CA	ARG	M	125	223.916	106.139	-0.498	1.00198.84	MS13
ATOM	46727	CB	ARG	M	125	224.684	104.909	-1.049	1.00133.99	MS13
ATOM	46728	CG	ARG	M	125	224.596	104.653	-2.558	1.00133.99	MS13
ATOM	46729	CD	ARG	M	125	225.440	105.624	-3.372	1.00133.99	MS13
ATOM	46730	NE	ARG	M	125	225.374	105.335	-4.802	1.00133.99	MS13
ATOM	46731	CZ	ARG	M	125	224.282	105.468	-5.546	1.00133.99	MS13
ATOM	46732	NH1	ARG	M	125	223.150	105.897	-5.001	1.00133.99	MS13
ATOM	46733	NH2	ARG	M	125	224.322	105.157	-6.837	1.00133.99	MS13
ATOM	46734	C	ARG	M	125	224.629	107.440	-0.850	1.00198.84	MS13
ATOM	46735	O	ARG	M	125	225.794	107.648	-0.508	1.00198.84	MS13
ATOM	46736	N	LYS	M	126	223.899	108.323	-1.526	1.00198.84	MS13
ATOM	46737	CA	LYS	M	126	224.429	109.613	-1.934	1.00198.84	MS13
ATOM	46738	CB	LYS	M	126	223.357	110.418	-2.684	1.00145.39	MS13
ATOM	46739	CG	LYS	M	126	222.645	109.664	-3.817	1.00145.39	MS13
ATOM	46740	CD	LYS	M	126	221.549	110.525	-4.448	1.00145.39	MS13
ATOM	46741	CE	LYS	M	126	220.704	109.738	-5.441	1.00145.39	MS13
ATOM	46742	NZ	LYS	M	126	219.627	110.580	-6.042	1.00145.39	MS13
ATOM	46743	C	LYS	M	126	224.858	110.366	-0.684	1.00198.84	MS13
ATOM	46744	O	LYS	M	126	225.279	111.531	-0.824	1.00198.84	MS13
ATOM	46745	OXT	LYS	M	126	224.762	109.784	0.419	1.00174.36	MS13
TER	46745		LYS	M	126					MS13
ATOM	46746	CB	ALA	N	2	216.369	119.414	28.018	1.00 60.88	NS14
ATOM	46747	C	ALA	N	2	216.656	117.254	29.282	1.00117.36	NS14
ATOM	46748	O	ALA	N	2	215.430	117.151	29.398	1.00117.36	NS14
ATOM	46749	N	ALA	N	2	217.539	117.489	26.975	1.00117.36	NS14
ATOM	46750	CA	ALA	N	2	217.282	118.195	28.257	1.00117.36	NS14
ATOM	46751	N	ARG	N	3	217.518	116.549	30.005	1.00123.80	NS14
ATOM	46752	CA	ARG	N	3	217.092	115.638	31.057	1.00123.80	NS14
ATOM	46753	CB	ARG	N	3	217.802	114.297	30.929	1.00113.78	NS14
ATOM	46754	CG	ARG	N	3	217.300	113.429	29.802	1.00113.78	NS14
ATOM	46755	CD	ARG	N	3	218.449	112.640	29.210	1.00113.78	NS14
ATOM	46756	NE	ARG	N	3	219.407	112.230	30.234	1.00113.78	NS14
ATOM	46757	CZ	ARG	N	3	220.630	111.780	29.970	1.00113.78	NS14
ATOM	46758	NH1	ARG	N	3	221.041	111.680	28.710	1.00113.78	NS14
ATOM	46759	NH2	ARG	N	3	221.446	111.448	30.962	1.00113.78	NS14
ATOM	46760	C	ARG	N	3	217.499	116.294	32.367	1.00123.80	NS14
ATOM	46761	O	ARG	N	3	218.644	116.723	32.516	1.00123.80	NS14
ATOM	46762	N	LYS	N	4	216.566	116.395	33.310	1.00115.48	NS14
ATOM	46763	CA	LYS	N	4	216.880	117.008	34.590	1.00115.48	NS14
ATOM	46764	CB	LYS	N	4	215.845	116.617	35.653	1.00157.34	NS14
ATOM	46765	CG	LYS	N	4	214.582	117.475	35.685	1.00157.34	NS14
ATOM	46766	CD	LYS	N	4	213.751	117.147	36.927	1.00157.34	NS14
ATOM	46767	CE	LYS	N	4	212.583	118.111	37.129	1.00157.34	NS14
ATOM	46768	NZ	LYS	N	4	211.793	117.804	38.369	1.00157.34	NS14
ATOM	46769	C	LYS	N	4	218.258	116.523	35.013	1.00115.48	NS14
ATOM	46770	O	LYS	N	4	219.157	117.325	35.267	1.00115.48	NS14
ATOM	46771	N	ALA	N	5	218.419	115.202	35.053	1.00 96.00	NS14
ATOM	46772	CA	ALA	N	5	219.677	114.579	35.454	1.00 96.00	NS14
ATOM	46773	CB	ALA	N	5	219.612	113.073	35.229	1.00 98.68	NS14
ATOM	46774	C	ALA	N	5	220.875	115.159	34.720	1.00 96.00	NS14
ATOM	46775	O	ALA	N	5	221.923	115.384	35.324	1.00 96.00	NS14
ATOM	46776	N	LEU	N	6	220.720	115.395	33.419	1.00138.41	NS14
ATOM	46777	CA	LEU	N	6	221.807	115.946	32.620	1.00138.41	NS14
ATOM	46778	CB	LEU	N	6	221.606	115.652	31.137	1.00119.10	NS14
ATOM	46779	CG	LEU	N	6	222.351	114.410	30.655	1.00119.10	NS14
ATOM	46780	CD1	LEU	N	6	222.308	114.383	29.141	1.00119.10	NS14
ATOM	46781	CD2	LEU	N	6	223.803	114.436	31.138	1.00119.10	NS14
ATOM	46782	C	LEU	N	6	222.017	117.431	32.806	1.00138.41	NS14
ATOM	46783	O	LEU	N	6	222.800	118.046	32.083	1.00138.41	NS14
ATOM	46784	N	ILE	N	7	221.308	118.018	33.759	1.00125.76	NS14
ATOM	46785	CA	ILE	N	7	221.495	119.429	34.033	1.00125.76	NS14
ATOM	46786	CB	ILE	N	7	220.173	120.183	34.077	1.00 70.49	NS14
ATOM	46787	CG2	ILE	N	7	220.452	121.676	34.108	1.00 70.49	NS14
ATOM	46788	CG1	ILE	N	7	219.347	119.822	32.836	1.00 70.49	NS14
ATOM	46789	CD1	ILE	N	7	218.126	120.689	32.615	1.00 70.49	NS14
ATOM	46790	C	ILE	N	7	222.232	119.517	35.366	1.00125.76	NS14
ATOM	46791	O	ILE	N	7	221.830	120.210	36.310	1.00125.76	NS14
ATOM	46792	N	GLU	N	8	223.318	118.752	35.403	1.00148.15	NS14
ATOM	46793	CA	GLU	N	8	224.230	118.664	36.527	1.00148.15	NS14
ATOM	46794	CB	GLU	N	8	224.936	117.308	36.512	1.00119.00	NS14
ATOM	46795	CG	GLU	N	8	226.068	117.230	35.481	1.00119.00	NS14

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ATOM	46796	CD	GLU	N	8	226.145	115.891	34.746	1.00119.00	NS14
ATOM	46797	OE1	GLU	N	8	226.228	114.830	35.408	1.00119.00	NS14
ATOM	46798	OE2	GLU	N	8	226.133	115.904	33.491	1.00119.00	NS14
ATOM	46799	C	GLU	N	8	225.239	119.754	36.204	1.00148.15	NS14
ATOM	46800	O	GLU	N	8	226.117	120.068	36.998	1.00148.15	NS14
ATOM	46801	N	LYS	N	9	225.107	120.308	35.004	1.00136.58	NS14
ATOM	46802	CA	LYS	N	9	225.986	121.362	34.528	1.00136.58	NS14
ATOM	46803	CB	LYS	N	9	225.414	121.977	33.251	1.00106.34	NS14
ATOM	46804	CG	LYS	N	9	226.384	122.887	32.512	1.00106.34	NS14
ATOM	46805	CD	LYS	N	9	226.600	124.212	33.223	1.00106.34	NS14
ATOM	46806	CE	LYS	N	9	227.724	124.999	32.577	1.00106.34	NS14
ATOM	46807	NZ	LYS	N	9	227.953	126.292	33.264	1.00106.34	NS14
ATOM	46808	C	LYS	N	9	226.110	122.430	35.598	1.00136.58	NS14
ATOM	46809	O	LYS	N	9	227.198	122.948	35.865	1.00136.58	NS14
ATOM	46810	N	ALA	N	10	224.980	122.752	36.211	1.00165.45	NS14
ATOM	46811	CA	ALA	N	10	224.945	123.761	37.253	1.00165.45	NS14
ATOM	46812	CB	ALA	N	10	223.492	124.055	37.622	1.00133.18	NS14
ATOM	46813	C	ALA	N	10	225.744	123.338	38.494	1.00165.45	NS14
ATOM	46814	O	ALA	N	10	226.023	124.163	39.369	1.00165.45	NS14
ATOM	46815	N	LYS	N	11	226.121	122.062	38.560	1.00198.84	NS14
ATOM	46816	CA	LYS	N	11	226.878	121.537	39.700	1.00198.84	NS14
ATOM	46817	CB	LYS	N	11	227.051	120.011	39.599	1.00110.96	NS14
ATOM	46818	CG	LYS	N	11	225.817	119.194	39.966	1.00110.96	NS14
ATOM	46819	CD	LYS	N	11	226.084	117.684	39.920	1.00110.96	NS14
ATOM	46820	CE	LYS	N	11	224.792	116.903	40.192	1.00110.96	NS14
ATOM	46821	NZ	LYS	N	11	224.949	115.424	40.101	1.00110.96	NS14
ATOM	46822	C	LYS	N	11	228.258	122.151	39.878	1.00198.84	NS14
ATOM	46823	O	LYS	N	11	228.976	121.775	40.805	1.00198.84	NS14
ATOM	46824	N	ARG	N	12	228.632	123.095	39.018	1.00149.17	NS14
ATOM	46825	CA	ARG	N	12	229.960	123.695	39.119	1.00149.17	NS14
ATOM	46826	CB	ARG	N	12	230.138	124.406	40.467	1.00169.19	NS14
ATOM	46827	CG	ARG	N	12	229.440	125.748	40.579	1.00169.19	NS14
ATOM	46828	CD	ARG	N	12	230.045	126.744	39.603	1.00169.19	NS14
ATOM	46829	NE	ARG	N	12	229.556	128.103	39.817	1.00169.19	NS14
ATOM	46830	CZ	ARG	N	12	229.911	129.151	39.079	1.00169.19	NS14
ATOM	46831	NH1	ARG	N	12	230.760	129.003	38.069	1.00169.19	NS14
ATOM	46832	NH2	ARG	N	12	229.418	130.350	39.352	1.00169.19	NS14
ATOM	46833	C	ARG	N	12	230.922	122.520	39.034	1.00149.17	NS14
ATOM	46834	O	ARG	N	12	231.356	122.136	37.948	1.00149.17	NS14
ATOM	46835	N	THR	N	13	231.221	121.954	40.200	1.00126.25	NS14
ATOM	46836	CA	THR	N	13	232.093	120.797	40.351	1.00126.25	NS14
ATOM	46837	CB	THR	N	13	231.413	119.719	41.221	1.00171.48	NS14
ATOM	46838	OG1	THR	N	13	230.941	120.315	42.436	1.00171.48	NS14
ATOM	46839	CG2	THR	N	13	232.394	118.597	41.553	1.00171.48	NS14
ATOM	46840	C	THR	N	13	232.474	120.161	39.020	1.00126.25	NS14
ATOM	46841	O	THR	N	13	231.986	119.089	38.663	1.00126.25	NS14
ATOM	46842	N	PRO	N	14	233.356	120.817	38.263	1.00194.07	NS14
ATOM	46843	CD	PRO	N	14	234.041	122.107	38.471	1.00111.65	NS14
ATOM	46844	CA	PRO	N	14	233.736	120.223	36.986	1.00194.07	NS14
ATOM	46845	CB	PRO	N	14	234.386	121.391	36.263	1.00111.65	NS14
ATOM	46846	CG	PRO	N	14	235.096	122.095	37.387	1.00111.65	NS14
ATOM	46847	C	PRO	N	14	234.708	119.075	37.222	1.00194.07	NS14
ATOM	46848	O	PRO	N	14	234.964	118.271	36.327	1.00194.07	NS14
ATOM	46849	N	LYS	N	15	235.236	119.005	38.442	1.00109.67	NS14
ATOM	46850	CA	LYS	N	15	236.214	117.991	38.815	1.00109.67	NS14
ATOM	46851	CB	LYS	N	15	235.716	116.593	38.425	1.00107.03	NS14
ATOM	46852	CG	LYS	N	15	236.462	115.428	39.080	1.00107.03	NS14
ATOM	46853	CD	LYS	N	15	235.725	114.108	38.819	1.00107.03	NS14
ATOM	46854	CE	LYS	N	15	236.372	112.901	39.504	1.00107.03	NS14
ATOM	46855	NZ	LYS	N	15	237.686	112.496	38.919	1.00107.03	NS14
ATOM	46856	C	LYS	N	15	237.484	118.369	38.045	1.00109.67	NS14
ATOM	46857	O	LYS	N	15	238.600	118.059	38.459	1.00109.67	NS14
ATOM	46858	N	PHE	N	16	237.279	119.059	36.925	1.00 95.52	NS14
ATOM	46859	CA	PHE	N	16	238.329	119.565	36.041	1.00 95.52	NS14
ATOM	46860	CB	PHE	N	16	238.804	118.496	35.057	1.00 96.79	NS14
ATOM	46861	CG	PHE	N	16	239.237	117.216	35.709	1.00 96.79	NS14
ATOM	46862	CD1	PHE	N	16	238.346	116.155	35.849	1.00 96.79	NS14
ATOM	46863	CD2	PHE	N	16	240.539	117.062	36.173	1.00 96.79	NS14
ATOM	46864	CE1	PHE	N	16	238.749	114.957	36.440	1.00 96.79	NS14
ATOM	46865	CE2	PHE	N	16	240.951	115.873	36.763	1.00 96.79	NS14
ATOM	46866	CZ	PHE	N	16	240.054	114.818	36.896	1.00 96.79	NS14
ATOM	46867	C	PHE	N	16	237.617	120.673	35.275	1.00 95.52	NS14
ATOM	46868	O	PHE	N	16	236.673	120.406	34.536	1.00 95.52	NS14
ATOM	46869	N	LYS	N	17	238.066	121.909	35.451	1.00116.76	NS14
ATOM	46870	CA	LYS	N	17	237.428	123.056	34.817	1.00116.76	NS14
ATOM	46871	CB	LYS	N	17	238.300	124.306	35.009	1.00132.69	NS14
ATOM	46872	CG	LYS	N	17	239.521	124.412	34.104	1.00132.69	NS14

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ATOM	46873	CD	LYS	N	17	239.230	125.288	32.885	1.00132.69	NS14
ATOM	46874	CE	LYS	N	17	238.792	126.695	33.299	1.00132.69	NS14
ATOM	46875	NZ	LYS	N	17	238.433	127.552	32.133	1.00132.69	NS14
ATOM	46876	C	LYS	N	17	237.026	122.916	33.346	1.00116.76	NS14
ATOM	46877	O	LYS	N	17	236.244	123.725	32.851	1.00116.76	NS14
ATOM	46878	N	VAL	N	18	237.526	121.897	32.650	1.00149.10	NS14
ATOM	46879	CA	VAL	N	18	237.189	121.715	31.234	1.00149.10	NS14
ATOM	46880	CB	VAL	N	18	238.233	120.854	30.508	1.00 87.13	NS14
ATOM	46881	CG1	VAL	N	18	239.496	121.663	30.286	1.00 87.13	NS14
ATOM	46882	CG2	VAL	N	18	238.512	119.582	31.310	1.00 87.13	NS14
ATOM	46883	C	VAL	N	18	235.818	121.116	30.923	1.00149.10	NS14
ATOM	46884	O	VAL	N	18	235.212	121.451	29.900	1.00149.10	NS14
ATOM	46885	N	ARG	N	19	235.330	120.228	31.784	1.00 95.91	NS14
ATOM	46886	CA	ARG	N	19	234.031	119.610	31.551	1.00 95.91	NS14
ATOM	46887	CB	ARG	N	19	233.822	118.420	32.491	1.00 73.55	NS14
ATOM	46888	CG	ARG	N	19	234.962	117.422	32.496	1.00 73.55	NS14
ATOM	46889	CD	ARG	N	19	234.507	116.099	33.068	1.00 73.55	NS14
ATOM	46890	NE	ARG	N	19	235.636	115.250	33.428	1.00 73.55	NS14
ATOM	46891	CZ	ARG	N	19	235.536	113.982	33.831	1.00 73.55	NS14
ATOM	46892	NH1	ARG	N	19	234.347	113.390	33.927	1.00 73.55	NS14
ATOM	46893	NH2	ARG	N	19	236.633	113.302	34.154	1.00 73.55	NS14
ATOM	46894	C	ARG	N	19	232.883	120.603	31.718	1.00 95.91	NS14
ATOM	46895	O	ARG	N	19	231.748	120.200	31.942	1.00 95.91	NS14
ATOM	46896	N	ALA	N	20	233.182	121.895	31.608	1.00113.62	NS14
ATOM	46897	CA	ALA	N	20	232.169	122.942	31.735	1.00113.62	NS14
ATOM	46898	CB	ALA	N	20	232.834	124.266	32.074	1.00 80.44	NS14
ATOM	46899	C	ALA	N	20	231.439	123.064	30.407	1.00113.62	NS14
ATOM	46900	O	ALA	N	20	232.037	122.799	29.364	1.00113.62	NS14
ATOM	46901	N	TYR	N	21	230.159	123.445	30.428	1.00 95.72	NS14
ATOM	46902	CA	TYR	N	21	229.440	123.595	29.164	1.00 95.72	NS14
ATOM	46903	CB	TYR	N	21	229.264	122.241	28.474	1.00 85.63	NS14
ATOM	46904	CG	TYR	N	21	228.306	121.261	29.107	1.00 85.63	NS14
ATOM	46905	CD1	TYR	N	21	228.770	120.255	29.946	1.00 85.63	NS14
ATOM	46906	CE1	TYR	N	21	227.916	119.266	30.421	1.00 85.63	NS14
ATOM	46907	CD2	TYR	N	21	226.949	121.266	28.769	1.00 85.63	NS14
ATOM	46908	CE2	TYR	N	21	226.081	120.286	29.239	1.00 85.63	NS14
ATOM	46909	CZ	TYR	N	21	226.571	119.282	30.061	1.00 85.63	NS14
ATOM	46910	OH	TYR	N	21	225.733	118.270	30.495	1.00 85.63	NS14
ATOM	46911	C	TYR	N	21	228.112	124.331	29.109	1.00 95.72	NS14
ATOM	46912	O	TYR	N	21	227.089	123.842	29.568	1.00 95.72	NS14
ATOM	46913	N	THR	N	22	228.154	125.505	28.492	1.00104.36	NS14
ATOM	46914	CA	THR	N	22	227.006	126.380	28.296	1.00104.36	NS14
ATOM	46915	CB	THR	N	22	226.940	126.816	26.818	1.00107.05	NS14
ATOM	46916	OG1	THR	N	22	227.058	125.665	25.961	1.00107.05	NS14
ATOM	46917	CG2	THR	N	22	228.058	127.808	26.517	1.00107.05	NS14
ATOM	46918	C	THR	N	22	225.593	125.948	28.744	1.00104.36	NS14
ATOM	46919	O	THR	N	22	225.166	126.308	29.846	1.00104.36	NS14
ATOM	46920	N	ARG	N	23	224.871	125.202	27.902	1.00 71.66	NS14
ATOM	46921	CA	ARG	N	23	223.485	124.770	28.198	1.00 71.66	NS14
ATOM	46922	CB	ARG	N	23	223.375	124.151	29.585	1.00 79.75	NS14
ATOM	46923	CG	ARG	N	23	223.839	122.727	29.668	1.00 79.75	NS14
ATOM	46924	CD	ARG	N	23	222.832	121.801	29.058	1.00 79.75	NS14
ATOM	46925	NE	ARG	N	23	223.184	120.425	29.356	1.00 79.75	NS14
ATOM	46926	CZ	ARG	N	23	222.629	119.382	28.759	1.00 79.75	NS14
ATOM	46927	NH1	ARG	N	23	221.698	119.587	27.830	1.00 79.75	NS14
ATOM	46928	NH2	ARG	N	23	223.006	118.142	29.080	1.00 79.75	NS14
ATOM	46929	C	ARG	N	23	222.504	125.940	28.125	1.00 71.66	NS14
ATOM	46930	O	ARG	N	23	222.821	127.057	28.544	1.00 71.66	NS14
ATOM	46931	N	CYS	N	24	221.308	125.699	27.604	1.00113.49	NS14
ATOM	46932	CA	CYS	N	24	220.352	126.793	27.511	1.00113.49	NS14
ATOM	46933	CB	CYS	N	24	219.255	126.498	26.482	1.00102.84	NS14
ATOM	46934	SG	CYS	N	24	218.272	127.964	26.032	1.00102.84	NS14
ATOM	46935	C	CYS	N	24	219.725	127.062	28.865	1.00113.49	NS14
ATOM	46936	O	CYS	N	24	219.314	126.144	29.580	1.00113.49	NS14
ATOM	46937	N	VAL	N	25	219.673	128.338	29.214	1.00 92.52	NS14
ATOM	46938	CA	VAL	N	25	219.095	128.767	30.471	1.00 92.52	NS14
ATOM	46939	CB	VAL	N	25	219.416	130.255	30.722	1.00 93.29	NS14
ATOM	46940	CG1	VAL	N	25	218.824	131.104	29.609	1.00 93.29	NS14
ATOM	46941	CG2	VAL	N	25	218.881	130.689	32.066	1.00 93.29	NS14
ATOM	46942	C	VAL	N	25	217.578	128.576	30.409	1.00 92.52	NS14
ATOM	46943	O	VAL	N	25	216.930	128.339	31.430	1.00 92.52	NS14
ATOM	46944	N	ARG	N	26	217.023	128.650	29.199	1.00 90.66	NS14
ATOM	46945	CA	ARG	N	26	215.576	128.517	29.001	1.00 90.66	NS14
ATOM	46946	CB	ARG	N	26	215.097	129.581	28.013	1.00 84.56	NS14
ATOM	46947	CG	ARG	N	26	213.639	129.476	27.650	1.00 84.56	NS14
ATOM	46948	CD	ARG	N	26	213.197	130.685	26.861	1.00 84.56	NS14
ATOM	46949	NE	ARG	N	26	211.982	130.377	26.126	1.00 84.56	NS14

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ATOM	46950	CZ	ARG	N	26	211.268	131.261	25.440	1.00	84.56	NS14
ATOM	46951	NH1	ARG	N	26	211.648	132.533	25.394	1.00	84.56	NS14
ATOM	46952	NH2	ARG	N	26	210.170	130.861	24.797	1.00	84.56	NS14
ATOM	46953	C	ARG	N	26	215.002	127.161	28.583	1.00	90.66	NS14
ATOM	46954	O	ARG	N	26	213.845	126.884	28.883	1.00	90.66	NS14
ATOM	46955	N	CYS	N	27	215.782	126.332	27.887	1.00	70.00	NS14
ATOM	46956	CA	CYS	N	27	215.307	125.003	27.458	1.00	70.00	NS14
ATOM	46957	CB	CYS	N	27	214.943	124.997	25.965	1.00	56.31	NS14
ATOM	46958	SG	CYS	N	27	216.334	125.241	24.834	1.00	56.31	NS14
ATOM	46959	C	CYS	N	27	216.323	123.892	27.716	1.00	70.00	NS14
ATOM	46960	O	CYS	N	27	215.994	122.712	27.613	1.00	70.00	NS14
ATOM	46961	N	GLY	N	28	217.553	124.272	28.051	1.00	96.54	NS14
ATOM	46962	CA	GLY	N	28	218.583	123.285	28.314	1.00	96.54	NS14
ATOM	46963	C	GLY	N	28	219.327	122.905	27.050	1.00	96.54	NS14
ATOM	46964	O	GLY	N	28	220.298	122.143	27.092	1.00	96.54	NS14
ATOM	46965	N	ARG	N	29	218.864	123.451	25.926	1.00	191.93	NS14
ATOM	46966	CA	ARG	N	29	219.457	123.189	24.619	1.00	191.93	NS14
ATOM	46967	CB	ARG	N	29	218.823	124.071	23.542	1.00	112.63	NS14
ATOM	46968	CG	ARG	N	29	219.219	123.660	22.142	1.00	112.63	NS14
ATOM	46969	CD	ARG	N	29	218.625	122.298	21.847	1.00	112.63	NS14
ATOM	46970	NE	ARG	N	29	219.301	121.583	20.770	1.00	112.63	NS14
ATOM	46971	CZ	ARG	N	29	219.507	122.068	19.551	1.00	112.63	NS14
ATOM	46972	NH1	ARG	N	29	219.100	123.291	19.239	1.00	112.63	NS14
ATOM	46973	NH2	ARG	N	29	220.099	121.311	18.636	1.00	112.63	NS14
ATOM	46974	C	ARG	N	29	220.951	123.440	24.618	1.00	191.93	NS14
ATOM	46975	O	ARG	N	29	221.408	124.530	24.277	1.00	191.93	NS14
ATOM	46976	N	ALA	N	30	221.709	122.421	24.989	1.00	93.53	NS14
ATOM	46977	CA	ALA	N	30	223.159	122.524	25.031	1.00	93.53	NS14
ATOM	46978	CB	ALA	N	30	223.745	121.207	25.570	1.00	39.83	NS14
ATOM	46979	C	ALA	N	30	223.760	122.836	23.652	1.00	93.53	NS14
ATOM	46980	O	ALA	N	30	224.716	123.614	23.529	1.00	93.53	NS14
ATOM	46981	N	ARG	N	31	223.162	122.242	22.623	1.00	103.01	NS14
ATOM	46982	CA	ARG	N	31	223.634	122.355	21.251	1.00	103.01	NS14
ATOM	46983	CB	ARG	N	31	222.641	121.725	20.285	1.00	83.53	NS14
ATOM	46984	CG	ARG	N	31	223.334	121.081	19.083	1.00	83.53	NS14
ATOM	46985	CD	ARG	N	31	223.445	119.584	19.265	1.00	83.53	NS14
ATOM	46986	NE	ARG	N	31	224.815	119.111	19.143	1.00	83.53	NS14
ATOM	46987	CZ	ARG	N	31	225.169	117.843	19.305	1.00	83.53	NS14
ATOM	46988	NH1	ARG	N	31	224.250	116.925	19.590	1.00	83.53	NS14
ATOM	46989	NH2	ARG	N	31	226.445	117.498	19.194	1.00	83.53	NS14
ATOM	46990	C	ARG	N	31	224.075	123.674	20.661	1.00	103.01	NS14
ATOM	46991	O	ARG	N	31	225.105	123.700	19.998	1.00	103.01	NS14
ATOM	46992	N	SER	N	32	223.333	124.759	20.822	1.00	59.39	NS14
ATOM	46993	CA	SER	N	32	223.856	125.988	20.224	1.00	59.39	NS14
ATOM	46994	CB	SER	N	32	223.352	126.159	18.776	1.00	99.48	NS14
ATOM	46995	OG	SER	N	32	221.961	126.366	18.701	1.00	99.48	NS14
ATOM	46996	C	SER	N	32	223.622	127.255	21.029	1.00	59.39	NS14
ATOM	46997	O	SER	N	32	222.975	128.192	20.564	1.00	59.39	NS14
ATOM	46998	N	VAL	N	33	224.212	127.286	22.220	1.00	90.77	NS14
ATOM	46999	CA	VAL	N	33	224.081	128.402	23.158	1.00	90.77	NS14
ATOM	47000	CB	VAL	N	33	224.388	127.935	24.583	1.00	90.62	NS14
ATOM	47001	CG1	VAL	N	33	223.242	128.300	25.511	1.00	90.62	NS14
ATOM	47002	CG2	VAL	N	33	224.651	126.429	24.580	1.00	90.62	NS14
ATOM	47003	C	VAL	N	33	224.957	129.615	22.898	1.00	90.77	NS14
ATOM	47004	O	VAL	N	33	226.170	129.493	22.766	1.00	90.77	NS14
ATOM	47005	N	TYR	N	34	224.339	130.789	22.857	1.00	106.48	NS14
ATOM	47006	CA	TYR	N	34	225.065	132.036	22.645	1.00	106.48	NS14
ATOM	47007	CB	TYR	N	34	224.200	133.030	21.891	1.00	97.64	NS14
ATOM	47008	CG	TYR	N	34	224.140	132.849	20.401	1.00	97.64	NS14
ATOM	47009	CD1	TYR	N	34	223.556	131.721	19.826	1.00	97.64	NS14
ATOM	47010	CE1	TYR	N	34	223.410	131.620	18.444	1.00	97.64	NS14
ATOM	47011	CD2	TYR	N	34	224.587	133.859	19.561	1.00	97.64	NS14
ATOM	47012	CE2	TYR	N	34	224.450	133.772	18.194	1.00	97.64	NS14
ATOM	47013	CZ	TYR	N	34	223.860	132.661	17.636	1.00	97.64	NS14
ATOM	47014	OH	TYR	N	34	223.698	132.641	16.268	1.00	97.64	NS14
ATOM	47015	C	TYR	N	34	225.454	132.675	23.981	1.00	106.48	NS14
ATOM	47016	O	TYR	N	34	224.585	133.038	24.772	1.00	106.48	NS14
ATOM	47017	N	ARG	N	35	226.752	132.834	24.221	1.00	89.91	NS14
ATOM	47018	CA	ARG	N	35	227.241	133.439	25.460	1.00	89.91	NS14
ATOM	47019	CB	ARG	N	35	228.725	133.788	25.316	1.00	94.88	NS14
ATOM	47020	CG	ARG	N	35	229.676	132.606	25.218	1.00	94.88	NS14
ATOM	47021	CD	ARG	N	35	231.103	133.106	25.009	1.00	94.88	NS14
ATOM	47022	NE	ARG	N	35	232.100	132.049	25.159	1.00	94.88	NS14
ATOM	47023	CZ	ARG	N	35	233.407	132.222	24.972	1.00	94.88	NS14
ATOM	47024	NH1	ARG	N	35	233.865	133.418	24.625	1.00	94.88	NS14
ATOM	47025	NH2	ARG	N	35	234.256	131.206	25.129	1.00	94.88	NS14
ATOM	47026	C	ARG	N	35	226.478	134.703	25.887	1.00	89.91	NS14

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ATOM	47027	O	ARG	N	35	225.835	134.724	26.931	1.00	89.91	NS14
ATOM	47028	N	PHE	N	36	226.563	135.751	25.073	1.00	71.52	NS14
ATOM	47029	CA	PHE	N	36	225.919	137.038	25.349	1.00	71.52	NS14
ATOM	47030	CB	PHE	N	36	226.068	137.942	24.116	1.00	65.69	NS14
ATOM	47031	CG	PHE	N	36	225.586	139.368	24.307	1.00	65.69	NS14
ATOM	47032	CD1	PHE	N	36	224.263	139.717	24.045	1.00	65.69	NS14
ATOM	47033	CD2	PHE	N	36	226.487	140.386	24.626	1.00	65.69	NS14
ATOM	47034	CE1	PHE	N	36	223.846	141.065	24.083	1.00	65.69	NS14
ATOM	47035	CE2	PHE	N	36	226.081	141.735	24.664	1.00	65.69	NS14
ATOM	47036	CZ	PHE	N	36	224.756	142.072	24.388	1.00	65.69	NS14
ATOM	47037	C	PHE	N	36	224.455	137.025	25.812	1.00	71.52	NS14
ATOM	47038	O	PHE	N	36	223.945	138.072	26.212	1.00	71.52	NS14
ATOM	47039	N	PHE	N	37	223.776	135.877	25.764	1.00	80.10	NS14
ATOM	47040	CA	PHE	N	37	222.378	135.811	26.205	1.00	80.10	NS14
ATOM	47041	CB	PHE	N	37	221.407	135.669	25.047	1.00	72.13	NS14
ATOM	47042	CG	PHE	N	37	221.422	136.798	24.099	1.00	72.13	NS14
ATOM	47043	CD1	PHE	N	37	222.264	136.781	22.999	1.00	72.13	NS14
ATOM	47044	CD2	PHE	N	37	220.553	137.858	24.260	1.00	72.13	NS14
ATOM	47045	CE1	PHE	N	37	222.235	137.803	22.064	1.00	72.13	NS14
ATOM	47046	CE2	PHE	N	37	220.516	138.895	23.322	1.00	72.13	NS14
ATOM	47047	CZ	PHE	N	37	221.359	138.864	22.221	1.00	72.13	NS14
ATOM	47048	C	PHE	N	37	222.071	134.653	27.116	1.00	80.10	NS14
ATOM	47049	O	PHE	N	37	221.087	134.702	27.855	1.00	80.10	NS14
ATOM	47050	N	GLY	N	38	222.879	133.600	27.038	1.00	86.02	NS14
ATOM	47051	CA	GLY	N	38	222.640	132.416	27.850	1.00	86.02	NS14
ATOM	47052	C	GLY	N	38	221.525	131.617	27.200	1.00	86.02	NS14
ATOM	47053	O	GLY	N	38	221.172	130.520	27.635	1.00	86.02	NS14
ATOM	47054	N	LEU	N	39	220.982	132.191	26.132	1.00	111.85	NS14
ATOM	47055	CA	LEU	N	39	219.897	131.596	25.371	1.00	111.85	NS14
ATOM	47056	CB	LEU	N	39	218.979	132.703	24.865	1.00	89.23	NS14
ATOM	47057	CG	LEU	N	39	218.303	133.522	25.958	1.00	89.23	NS14
ATOM	47058	CD1	LEU	N	39	217.680	134.789	25.368	1.00	89.23	NS14
ATOM	47059	CD2	LEU	N	39	217.263	132.645	26.638	1.00	89.23	NS14
ATOM	47060	C	LEU	N	39	220.409	130.789	24.180	1.00	111.85	NS14
ATOM	47061	O	LEU	N	39	221.453	131.111	23.603	1.00	111.85	NS14
ATOM	47062	N	CYS	N	40	219.662	129.749	23.806	1.00	129.32	NS14
ATOM	47063	CA	CYS	N	40	220.031	128.904	22.671	1.00	129.32	NS14
ATOM	47064	CB	CYS	N	40	219.294	127.570	22.728	1.00	73.50	NS14
ATOM	47065	SG	CYS	N	40	217.561	127.705	22.252	1.00	73.50	NS14
ATOM	47066	C	CYS	N	40	219.654	129.617	21.379	1.00	129.32	NS14
ATOM	47067	O	CYS	N	40	219.052	130.693	21.405	1.00	129.32	NS14
ATOM	47068	N	ARG	N	41	219.994	129.006	20.248	1.00	94.53	NS14
ATOM	47069	CA	ARG	N	41	219.697	129.601	18.952	1.00	94.53	NS14
ATOM	47070	CB	ARG	N	41	220.255	128.728	17.808	1.00	91.32	NS14
ATOM	47071	CG	ARG	N	41	219.384	127.530	17.395	1.00	91.32	NS14
ATOM	47072	CD	ARG	N	41	219.162	127.494	15.870	1.00	91.32	NS14
ATOM	47073	NE	ARG	N	41	218.168	126.497	15.469	1.00	91.32	NS14
ATOM	47074	CZ	ARG	N	41	218.355	125.179	15.518	1.00	91.32	NS14
ATOM	47075	NH1	ARG	N	41	219.508	124.687	15.951	1.00	91.32	NS14
ATOM	47076	NH2	ARG	N	41	217.384	124.351	15.140	1.00	91.32	NS14
ATOM	47077	C	ARG	N	41	218.195	129.798	18.782	1.00	94.53	NS14
ATOM	47078	O	ARG	N	41	217.752	130.800	18.217	1.00	94.53	NS14
ATOM	47079	N	ILE	N	42	217.416	128.846	19.288	1.00	71.82	NS14
ATOM	47080	CA	ILE	N	42	215.961	128.911	19.179	1.00	71.82	NS14
ATOM	47081	CB	ILE	N	42	215.308	127.572	19.557	1.00	56.93	NS14
ATOM	47082	CG2	ILE	N	42	213.782	127.703	19.472	1.00	56.93	NS14
ATOM	47083	CG1	ILE	N	42	215.840	126.457	18.649	1.00	56.93	NS14
ATOM	47084	CD1	ILE	N	42	215.194	125.084	18.891	1.00	56.93	NS14
ATOM	47085	C	ILE	N	42	215.364	129.979	20.085	1.00	71.82	NS14
ATOM	47086	O	ILE	N	42	214.728	130.934	19.620	1.00	71.82	NS14
ATOM	47087	N	CYS	N	43	215.572	129.791	21.386	1.00	80.10	NS14
ATOM	47088	CA	CYS	N	43	215.071	130.698	22.399	1.00	80.10	NS14
ATOM	47089	CB	CYS	N	43	215.659	130.296	23.740	1.00	65.31	NS14
ATOM	47090	SG	CYS	N	43	215.080	128.642	24.201	1.00	65.31	NS14
ATOM	47091	C	CYS	N	43	215.369	132.151	22.057	1.00	80.10	NS14
ATOM	47092	O	CYS	N	43	214.511	133.017	22.233	1.00	80.10	NS14
ATOM	47093	N	LEU	N	44	216.572	132.413	21.551	1.00	90.27	NS14
ATOM	47094	CA	LEU	N	44	216.949	133.770	21.153	1.00	90.27	NS14
ATOM	47095	CB	LEU	N	44	218.403	133.784	20.618	1.00	79.88	NS14
ATOM	47096	CG	LEU	N	44	218.946	134.888	19.677	1.00	79.88	NS14
ATOM	47097	CD1	LEU	N	44	218.537	136.268	20.142	1.00	79.88	NS14
ATOM	47098	CD2	LEU	N	44	220.473	134.794	19.606	1.00	79.88	NS14
ATOM	47099	C	LEU	N	44	215.963	134.298	20.095	1.00	90.27	NS14
ATOM	47100	O	LEU	N	44	215.630	135.483	20.078	1.00	90.27	NS14
ATOM	47101	N	ARG	N	45	215.479	133.411	19.232	1.00	93.57	NS14
ATOM	47102	CA	ARG	N	45	214.539	133.801	18.183	1.00	93.57	NS14
ATOM	47103	CB	ARG	N	45	214.505	132.720	17.087	1.00	88.85	NS14

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ATOM	47104	CG	ARG	N	45	213.572	132.990	15.896	1.00	88.85	NS14
ATOM	47105	CD	ARG	N	45	213.291	131.681	15.142	1.00	88.85	NS14
ATOM	47106	NE	ARG	N	45	212.216	131.799	14.160	1.00	88.85	NS14
ATOM	47107	CZ	ARG	N	45	212.237	132.646	13.134	1.00	88.85	NS14
ATOM	47108	NH1	ARG	N	45	213.282	133.444	12.964	1.00	88.85	NS14
ATOM	47109	NH2	ARG	N	45	211.221	132.699	12.275	1.00	88.85	NS14
ATOM	47110	C	ARG	N	45	213.138	134.020	18.759	1.00	93.57	NS14
ATOM	47111	O	ARG	N	45	212.474	135.001	18.430	1.00	93.57	NS14
ATOM	47112	N	GLU	N	46	212.690	133.107	19.617	1.00	106.42	NS14
ATOM	47113	CA	GLU	N	46	211.369	133.222	20.230	1.00	106.42	NS14
ATOM	47114	CB	GLU	N	46	211.125	132.062	21.201	1.00	122.53	NS14
ATOM	47115	CG	GLU	N	46	211.222	130.678	20.567	1.00	122.53	NS14
ATOM	47116	CD	GLU	N	46	211.059	129.550	21.577	1.00	122.53	NS14
ATOM	47117	OE1	GLU	N	46	211.783	129.552	22.596	1.00	122.53	NS14
ATOM	47118	OE2	GLU	N	46	210.213	128.659	21.349	1.00	122.53	NS14
ATOM	47119	C	GLU	N	46	211.291	134.541	20.987	1.00	106.42	NS14
ATOM	47120	O	GLU	N	46	210.389	135.349	20.754	1.00	106.42	NS14
ATOM	47121	N	LEU	N	47	212.255	134.752	21.882	1.00	82.36	NS14
ATOM	47122	CA	LEU	N	47	212.328	135.963	22.694	1.00	82.36	NS14
ATOM	47123	CB	LEU	N	47	213.389	135.803	23.770	1.00	92.95	NS14
ATOM	47124	CG	LEU	N	47	212.891	135.009	24.965	1.00	92.95	NS14
ATOM	47125	CD1	LEU	N	47	214.048	134.684	25.884	1.00	92.95	NS14
ATOM	47126	CD2	LEU	N	47	211.830	135.817	25.681	1.00	92.95	NS14
ATOM	47127	C	LEU	N	47	212.592	137.258	21.945	1.00	82.36	NS14
ATOM	47128	O	LEU	N	47	212.079	138.309	22.323	1.00	82.36	NS14
ATOM	47129	N	ALA	N	48	213.405	137.209	20.900	1.00	76.14	NS14
ATOM	47130	CA	ALA	N	48	213.677	138.430	20.152	1.00	76.14	NS14
ATOM	47131	CB	ALA	N	48	214.742	138.178	19.078	1.00	75.76	NS14
ATOM	47132	C	ALA	N	48	212.378	138.922	19.515	1.00	76.14	NS14
ATOM	47133	O	ALA	N	48	212.161	140.125	19.382	1.00	76.14	NS14
ATOM	47134	N	HIS	N	49	211.516	137.983	19.135	1.00	102.20	NS14
ATOM	47135	CA	HIS	N	49	210.241	138.320	18.514	1.00	102.20	NS14
ATOM	47136	CB	HIS	N	49	209.586	137.069	17.914	1.00	99.08	NS14
ATOM	47137	CG	HIS	N	49	210.230	136.586	16.650	1.00	99.08	NS14
ATOM	47138	CD2	HIS	N	49	210.624	135.349	16.267	1.00	99.08	NS14
ATOM	47139	ND1	HIS	N	49	210.509	137.421	15.590	1.00	99.08	NS14
ATOM	47140	CE1	HIS	N	49	211.047	136.720	14.610	1.00	99.08	NS14
ATOM	47141	NE2	HIS	N	49	211.128	135.460	14.996	1.00	99.08	NS14
ATOM	47142	C	HIS	N	49	209.290	138.957	19.520	1.00	102.20	NS14
ATOM	47143	O	HIS	N	49	208.565	139.900	19.191	1.00	102.20	NS14
ATOM	47144	N	LYS	N	50	209.281	138.431	20.741	1.00	110.62	NS14
ATOM	47145	CA	LYS	N	50	208.425	138.974	21.789	1.00	110.62	NS14
ATOM	47146	CB	LYS	N	50	208.477	138.096	23.036	1.00	79.82	NS14
ATOM	47147	CG	LYS	N	50	207.597	136.870	22.996	1.00	79.82	NS14
ATOM	47148	CD	LYS	N	50	207.828	136.035	24.240	1.00	79.82	NS14
ATOM	47149	CE	LYS	N	50	206.756	134.978	24.427	1.00	79.82	NS14
ATOM	47150	NZ	LYS	N	50	207.021	134.152	25.650	1.00	79.82	NS14
ATOM	47151	C	LYS	N	50	208.877	140.382	22.155	1.00	110.62	NS14
ATOM	47152	O	LYS	N	50	208.092	141.182	22.657	1.00	110.62	NS14
ATOM	47153	N	GLY	N	51	210.149	140.677	21.906	1.00	106.74	NS14
ATOM	47154	CA	GLY	N	51	210.679	141.991	22.213	1.00	106.74	NS14
ATOM	47155	C	GLY	N	51	211.245	142.041	23.614	1.00	106.74	NS14
ATOM	47156	O	GLY	N	51	211.386	143.110	24.206	1.00	106.74	NS14
ATOM	47157	N	GLN	N	52	211.572	140.874	24.148	1.00	95.20	NS14
ATOM	47158	CA	GLN	N	52	212.123	140.795	25.490	1.00	95.20	NS14
ATOM	47159	CB	GLN	N	52	211.599	139.543	26.172	1.00	90.36	NS14
ATOM	47160	CG	GLN	N	52	210.137	139.676	26.494	1.00	90.36	NS14
ATOM	47161	CD	GLN	N	52	209.545	138.395	27.004	1.00	90.36	NS14
ATOM	47162	OE1	GLN	N	52	210.213	137.624	27.697	1.00	90.36	NS14
ATOM	47163	NE2	GLN	N	52	208.276	138.159	26.680	1.00	90.36	NS14
ATOM	47164	C	GLN	N	52	213.649	140.844	25.504	1.00	95.20	NS14
ATOM	47165	O	GLN	N	52	214.293	140.680	26.541	1.00	95.20	NS14
ATOM	47166	N	LEU	N	53	214.229	141.058	24.333	1.00	89.42	NS14
ATOM	47167	CA	LEU	N	53	215.667	141.190	24.235	1.00	89.42	NS14
ATOM	47168	CB	LEU	N	53	216.232	140.319	23.115	1.00	83.20	NS14
ATOM	47169	CG	LEU	N	53	216.192	138.813	23.390	1.00	83.20	NS14
ATOM	47170	CD1	LEU	N	53	217.043	138.127	22.351	1.00	83.20	NS14
ATOM	47171	CD2	LEU	N	53	216.711	138.491	24.791	1.00	83.20	NS14
ATOM	47172	C	LEU	N	53	215.822	142.664	23.928	1.00	89.42	NS14
ATOM	47173	O	LEU	N	53	215.674	143.107	22.788	1.00	89.42	NS14
ATOM	47174	N	PRO	N	54	216.084	143.453	24.970	1.00	87.39	NS14
ATOM	47175	CD	PRO	N	54	216.405	142.971	26.326	1.00	91.72	NS14
ATOM	47176	CA	PRO	N	54	216.256	144.905	24.860	1.00	87.39	NS14
ATOM	47177	CB	PRO	N	54	216.828	145.297	26.228	1.00	91.72	NS14
ATOM	47178	CG	PRO	N	54	217.395	143.988	26.786	1.00	91.72	NS14
ATOM	47179	C	PRO	N	54	217.127	145.359	23.694	1.00	87.39	NS14
ATOM	47180	O	PRO	N	54	218.253	144.894	23.521	1.00	87.39	NS14

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ATOM	47181	N	GLY	N	55	216.586	146.264	22.886	1.00131.36	NS14
ATOM	47182	CA	GLY	N	55	217.329	146.779	21.751	1.00131.36	NS14
ATOM	47183	C	GLY	N	55	217.746	145.751	20.714	1.00131.36	NS14
ATOM	47184	O	GLY	N	55	218.422	146.090	19.742	1.00131.36	NS14
ATOM	47185	N	VAL	N	56	217.366	144.493	20.912	1.00105.09	NS14
ATOM	47186	CA	VAL	N	56	217.714	143.464	19.943	1.00105.09	NS14
ATOM	47187	CB	VAL	N	56	217.829	142.070	20.596	1.00109.71	NS14
ATOM	47188	CG1	VAL	N	56	218.251	141.046	19.559	1.00109.71	NS14
ATOM	47189	CG2	VAL	N	56	218.848	142.107	21.719	1.00109.71	NS14
ATOM	47190	C	VAL	N	56	216.627	143.445	18.879	1.00105.09	NS14
ATOM	47191	O	VAL	N	56	215.655	142.698	18.963	1.00105.09	NS14
ATOM	47192	N	ARG	N	57	216.801	144.304	17.885	1.00 90.13	NS14
ATOM	47193	CA	ARG	N	57	215.869	144.435	16.780	1.00 90.13	NS14
ATOM	47194	CB	ARG	N	57	215.942	145.869	16.248	1.00132.43	NS14
ATOM	47195	CG	ARG	N	57	214.807	146.290	15.349	1.00132.43	NS14
ATOM	47196	CD	ARG	N	57	214.947	147.757	14.979	1.00132.43	NS14
ATOM	47197	NE	ARG	N	57	213.974	148.158	13.965	1.00132.43	NS14
ATOM	47198	C2	ARG	N	57	213.943	149.359	13.393	1.00132.43	NS14
ATOM	47199	NH1	ARG	N	57	214.835	150.278	13.740	1.00132.43	NS14
ATOM	47200	NH2	ARG	N	57	213.027	149.640	12.470	1.00132.43	NS14
ATOM	47201	C	ARG	N	57	216.266	143.427	15.693	1.00 90.13	NS14
ATOM	47202	O	ARG	N	57	217.090	142.534	15.926	1.00 90.13	NS14
ATOM	47203	N	LYS	N	58	215.675	143.554	14.509	1.00 96.48	NS14
ATOM	47204	CA	LYS	N	58	216.003	142.650	13.419	1.00 96.48	NS14
ATOM	47205	CB	LYS	N	58	214.739	142.196	12.691	1.00 88.85	NS14
ATOM	47206	CG	LYS	N	58	213.900	141.194	13.464	1.00 88.85	NS14
ATOM	47207	CD	LYS	N	58	213.293	140.139	12.530	1.00 88.85	NS14
ATOM	47208	CE	LYS	N	58	212.535	140.779	11.368	1.00 88.85	NS14
ATOM	47209	NZ	LYS	N	58	211.880	139.761	10.511	1.00 88.85	NS14
ATOM	47210	C	LYS	N	58	216.948	143.321	12.433	1.00 96.48	NS14
ATOM	47211	O	LYS	N	58	216.747	144.476	12.050	1.00 96.48	NS14
ATOM	47212	N	ALA	N	59	217.981	142.586	12.031	1.00 92.32	NS14
ATOM	47213	CA	ALA	N	59	218.969	143.085	11.086	1.00 92.32	NS14
ATOM	47214	CB	ALA	N	59	220.000	142.019	10.829	1.00101.32	NS14
ATOM	47215	C	ALA	N	59	218.293	143.485	9.784	1.00 92.32	NS14
ATOM	47216	O	ALA	N	59	217.075	143.594	9.733	1.00 92.32	NS14
ATOM	47217	N	SER	N	60	219.092	143.700	8.742	1.00 88.20	NS14
ATOM	47218	CA	SER	N	60	218.604	144.083	7.414	1.00 88.20	NS14
ATOM	47219	CB	SER	N	60	217.167	144.609	7.480	1.00109.86	NS14
ATOM	47220	OG	SER	N	60	216.735	145.088	6.219	1.00109.86	NS14
ATOM	47221	C	SER	N	60	219.481	145.167	6.801	1.00 88.20	NS14
ATOM	47222	O	SER	N	60	219.533	146.283	7.313	1.00 88.20	NS14
ATOM	47223	N	TRP	N	61	220.165	144.849	5.705	1.00114.73	NS14
ATOM	47224	CA	TRP	N	61	221.016	145.837	5.052	1.00114.73	NS14
ATOM	47225	CB	TRP	N	61	222.279	146.084	5.895	1.00 78.47	NS14
ATOM	47226	CG	TRP	N	61	223.216	144.909	6.109	1.00 78.47	NS14
ATOM	47227	CD2	TRP	N	61	222.972	143.707	6.869	1.00 78.47	NS14
ATOM	47228	CE2	TRP	N	61	224.165	142.948	6.846	1.00 78.47	NS14
ATOM	47229	CE3	TRP	N	61	221.871	143.202	7.567	1.00 78.47	NS14
ATOM	47230	CD1	TRP	N	61	224.505	144.819	5.671	1.00 78.47	NS14
ATOM	47231	NE1	TRP	N	61	225.082	143.650	6.108	1.00 78.47	NS14
ATOM	47232	C22	TRP	N	61	224.287	141.707	7.498	1.00 78.47	NS14
ATOM	47233	C23	TRP	N	61	221.997	141.964	8.215	1.00 78.47	NS14
ATOM	47234	CH2	TRP	N	61	223.198	141.236	8.174	1.00 78.47	NS14
ATOM	47235	C	TRP	N	61	221.371	145.526	3.592	1.00114.73	NS14
ATOM	47236	O	TRP	N	61	221.375	146.485	2.788	1.00114.73	NS14
ATOM	47237	OXT	TRP	N	61	221.633	144.347	3.254	1.00 94.79	NS14
TER	47237		TRP	N	61					NS14
ATOM	47238	CB	PRO	O	2	154.474	110.254	-71.926	1.00 79.88	OS15
ATOM	47239	CG	PRO	O	2	155.939	110.011	-72.284	1.00 79.88	OS15
ATOM	47240	C	PRO	O	2	152.485	108.805	-72.405	1.00178.79	OS15
ATOM	47241	O	PRO	O	2	152.151	108.035	-73.309	1.00178.79	OS15
ATOM	47242	N	PRO	O	2	154.807	108.010	-72.754	1.00178.79	OS15
ATOM	47243	CD	PRO	O	2	155.909	108.838	-73.278	1.00 79.88	OS15
ATOM	47244	CA	PRO	O	2	153.924	108.834	-71.895	1.00178.79	OS15
ATOM	47245	N	ILE	O	3	151.638	109.650	-71.825	1.00103.55	OS15
ATOM	47246	CA	ILE	O	3	150.237	109.722	-72.223	1.00103.55	OS15
ATOM	47247	CB	ILE	O	3	149.291	109.458	-71.022	1.00106.55	OS15
ATOM	47248	CG2	ILE	O	3	147.899	109.177	-71.522	1.00106.55	OS15
ATOM	47249	CG1	ILE	O	3	149.764	108.256	-70.205	1.00106.55	OS15
ATOM	47250	CD1	ILE	O	3	150.895	108.574	-69.269	1.00106.55	OS15
ATOM	47251	C	ILE	O	3	149.941	111.120	-72.768	1.00103.55	OS15
ATOM	47252	O	ILE	O	3	149.918	112.085	-72.009	1.00103.55	OS15
ATOM	47253	N	THR	O	4	149.715	111.233	-74.074	1.00101.91	OS15
ATOM	47254	CA	THR	O	4	149.426	112.535	-74.681	1.00101.91	OS15
ATOM	47255	CB	THR	O	4	149.212	112.413	-76.203	1.00128.81	OS15
ATOM	47256	OG1	THR	O	4	148.067	111.591	-76.461	1.00128.81	OS15

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ATOM	47257	CG2	THR	O	4	150.423	111.793	-76.865	1.00128.81	OS15
ATOM	47258	C	THR	O	4	148.157	113.134	-74.083	1.00101.91	OS15
ATOM	47259	O	THR	O	4	147.354	112.413	-73.492	1.00101.91	OS15
ATOM	47260	N	LYS	O	5	147.976	114.447	-74.234	1.00 88.93	OS15
ATOM	47261	CA	LYS	O	5	146.776	115.111	-73.718	1.00 88.93	OS15
ATOM	47262	CB	LYS	O	5	146.799	116.605	-74.042	1.00111.33	OS15
ATOM	47263	CG	LYS	O	5	147.975	117.348	-73.443	1.00111.33	OS15
ATOM	47264	CD	LYS	O	5	147.895	118.836	-73.749	1.00111.33	OS15
ATOM	47265	CE	LYS	O	5	149.082	119.596	-73.163	1.00111.33	OS15
ATOM	47266	NZ	LYS	O	5	149.031	121.066	-73.443	1.00111.33	OS15
ATOM	47267	C	LYS	O	5	145.549	114.464	-74.360	1.00 88.93	OS15
ATOM	47268	O	LYS	O	5	144.488	114.361	-73.730	1.00 88.93	OS15
ATOM	47269	N	GLU	O	6	145.711	114.032	-75.616	1.00 85.54	OS15
ATOM	47270	CA	GLU	O	6	144.647	113.365	-76.370	1.00 85.54	OS15
ATOM	47271	CB	GLU	O	6	145.107	112.985	-77.783	1.00171.16	OS15
ATOM	47272	CG	GLU	O	6	146.419	113.594	-78.232	1.00171.16	OS15
ATOM	47273	CD	GLU	O	6	146.339	115.095	-78.371	1.00171.16	OS15
ATOM	47274	OE1	GLU	O	6	145.423	115.574	-79.075	1.00171.16	OS15
ATOM	47275	OE2	GLU	O	6	147.191	115.793	-77.781	1.00171.16	OS15
ATOM	47276	C	GLU	O	6	144.366	112.089	-75.608	1.00 85.54	OS15
ATOM	47277	O	GLU	O	6	143.290	111.912	-75.041	1.00 85.54	OS15
ATOM	47278	N	GLU	O	7	145.360	111.205	-75.609	1.00 85.73	OS15
ATOM	47279	CA	GLU	O	7	145.290	109.928	-74.909	1.00 85.73	OS15
ATOM	47280	CB	GLU	O	7	146.706	109.452	-74.569	1.00185.17	OS15
ATOM	47281	CG	GLU	O	7	147.374	108.634	-75.651	1.00185.17	OS15
ATOM	47282	CD	GLU	O	7	146.768	107.251	-75.768	1.00185.17	OS15
ATOM	47283	OE1	GLU	O	7	145.538	107.152	-75.978	1.00185.17	OS15
ATOM	47284	OE2	GLU	O	7	147.523	106.262	-75.646	1.00185.17	OS15
ATOM	47285	C	GLU	O	7	144.485	110.066	-73.621	1.00 85.73	OS15
ATOM	47286	O	GLU	O	7	143.604	109.254	-73.325	1.00 85.73	OS15
ATOM	47287	N	LYS	O	8	144.798	111.109	-72.865	1.00 84.90	OS15
ATOM	47288	CA	LYS	O	8	144.125	111.369	-71.612	1.00 84.90	OS15
ATOM	47289	CB	LYS	O	8	144.860	112.471	-70.857	1.00 77.36	OS15
ATOM	47290	CG	LYS	O	8	144.361	112.654	-69.455	1.00 77.36	OS15
ATOM	47291	CD	LYS	O	8	145.268	113.563	-68.663	1.00 77.36	OS15
ATOM	47292	CE	LYS	O	8	144.844	113.577	-67.209	1.00 77.36	OS15
ATOM	47293	NZ	LYS	O	8	145.849	114.233	-66.341	1.00 77.36	OS15
ATOM	47294	C	LYS	O	8	142.664	111.758	-71.824	1.00 84.90	OS15
ATOM	47295	O	LYS	O	8	141.763	110.946	-71.605	1.00 84.90	OS15
ATOM	47296	N	GLN	O	9	142.426	112.993	-72.261	1.00 99.60	OS15
ATOM	47297	CA	GLN	O	9	141.062	113.463	-72.473	1.00 99.60	OS15
ATOM	47298	CB	GLN	O	9	141.080	114.816	-73.175	1.00149.98	OS15
ATOM	47299	CG	GLN	O	9	141.673	115.897	-72.298	1.00149.98	OS15
ATOM	47300	CD	GLN	O	9	141.503	117.286	-72.874	1.00149.98	OS15
ATOM	47301	OE1	GLN	O	9	140.386	117.722	-73.158	1.00149.98	OS15
ATOM	47302	NE2	GLN	O	9	142.617	117.999	-73.042	1.00149.98	OS15
ATOM	47303	C	GLN	O	9	140.171	112.479	-73.224	1.00 99.60	OS15
ATOM	47304	O	GLN	O	9	138.960	112.445	-73.008	1.00 99.60	OS15
ATOM	47305	N	LYS	O	10	140.766	111.674	-74.096	1.00 94.17	OS15
ATOM	47306	CA	LYS	O	10	140.006	110.678	-74.846	1.00 94.17	OS15
ATOM	47307	CB	LYS	O	10	140.934	109.897	-75.789	1.00150.51	OS15
ATOM	47308	CG	LYS	O	10	140.447	108.495	-76.151	1.00150.51	OS15
ATOM	47309	CD	LYS	O	10	139.048	108.509	-76.754	1.00150.51	OS15
ATOM	47310	CE	LYS	O	10	138.450	107.104	-76.787	1.00150.51	OS15
ATOM	47311	NZ	LYS	O	10	137.013	107.086	-77.194	1.00150.51	OS15
ATOM	47312	C	LYS	O	10	139.338	109.723	-73.858	1.00 94.17	OS15
ATOM	47313	O	LYS	O	10	138.246	109.204	-74.107	1.00 94.17	OS15
ATOM	47314	N	VAL	O	11	140.002	109.497	-72.732	1.00 88.93	OS15
ATOM	47315	CA	VAL	O	11	139.470	108.612	-71.709	1.00 88.93	OS15
ATOM	47316	CB	VAL	O	11	140.584	108.077	-70.795	1.00 77.40	OS15
ATOM	47317	CG1	VAL	O	11	139.983	107.361	-69.591	1.00 77.40	OS15
ATOM	47318	CG2	VAL	O	11	141.469	107.132	-71.581	1.00 77.40	OS15
ATOM	47319	C	VAL	O	11	138.465	109.358	-70.860	1.00 88.93	OS15
ATOM	47320	O	VAL	O	11	137.379	108.852	-70.581	1.00 88.93	OS15
ATOM	47321	N	ILE	O	12	138.831	110.568	-70.458	1.00 80.09	OS15
ATOM	47322	CA	ILE	O	12	137.962	111.375	-69.623	1.00 80.09	OS15
ATOM	47323	CB	ILE	O	12	138.529	112.777	-69.456	1.00 52.64	OS15
ATOM	47324	CG2	ILE	O	12	137.615	113.595	-68.562	1.00 52.64	OS15
ATOM	47325	CG1	ILE	O	12	139.940	112.678	-68.871	1.00 52.64	OS15
ATOM	47326	CD1	ILE	O	12	140.630	114.013	-68.623	1.00 52.64	OS15
ATOM	47327	C	ILE	O	12	136.538	111.468	-70.169	1.00 80.09	OS15
ATOM	47328	O	ILE	O	12	135.563	111.240	-69.442	1.00 80.09	OS15
ATOM	47329	N	GLN	O	13	136.411	111.806	-71.445	1.00 96.19	OS15
ATOM	47330	CA	GLN	O	13	135.095	111.899	-72.048	1.00 96.19	OS15
ATOM	47331	CB	GLN	O	13	135.214	112.428	-73.468	1.00139.27	OS15
ATOM	47332	CG	GLN	O	13	135.651	113.866	-73.540	1.00139.27	OS15
ATOM	47333	CD	GLN	O	13	135.885	114.311	-74.960	1.00139.27	OS15

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ATOM	47334	OE1	GLN	O	13	135.935	115.506	-75.244	1.00139.27	OS15
ATOM	47335	NE2	GLN	O	13	136.039	113.349	-75.867	1.00139.27	OS15
ATOM	47336	C	GLN	O	13	134.447	110.523	-72.065	1.00 96.19	OS15
ATOM	47337	O	GLN	O	13	133.272	110.369	-71.743	1.00 96.19	OS15
ATOM	47338	N	GLU	O	14	135.236	109.521	-72.432	1.00 82.95	OS15
ATOM	47339	CA	GLU	O	14	134.762	108.146	-72.512	1.00 82.95	OS15
ATOM	47340	CB	GLU	O	14	135.916	107.227	-72.923	1.00176.28	OS15
ATOM	47341	CG	GLU	O	14	135.556	105.754	-72.922	1.00176.28	OS15
ATOM	47342	CD	GLU	O	14	134.361	105.445	-73.802	1.00176.28	OS15
ATOM	47343	OE1	GLU	O	14	133.853	104.306	-73.735	1.00176.28	OS15
ATOM	47344	OE2	GLU	O	14	133.933	106.337	-74.566	1.00176.28	OS15
ATOM	47345	C	GLU	O	14	134.116	107.613	-71.232	1.00 82.95	OS15
ATOM	47346	O	GLU	O	14	133.404	106.609	-71.267	1.00 82.95	OS15
ATOM	47347	N	PHE	O	15	134.354	108.278	-70.107	1.00 96.99	OS15
ATOM	47348	CA	PHE	O	15	133.785	107.822	-68.847	1.00 96.99	OS15
ATOM	47349	CB	PHE	O	15	134.885	107.356	-67.899	1.00 71.84	OS15
ATOM	47350	CG	PHE	O	15	135.537	106.081	-68.317	1.00 71.84	OS15
ATOM	47351	CD1	PHE	O	15	136.596	106.089	-69.214	1.00 71.84	OS15
ATOM	47352	CD2	PHE	O	15	135.069	104.863	-67.834	1.00 71.84	OS15
ATOM	47353	CE1	PHE	O	15	137.176	104.906	-69.630	1.00 71.84	OS15
ATOM	47354	CE2	PHE	O	15	135.643	103.666	-68.245	1.00 71.84	OS15
ATOM	47355	CZ	PHE	O	15	136.699	103.689	-69.146	1.00 71.84	OS15
ATOM	47356	C	PHE	O	15	132.933	108.843	-68.122	1.00 96.99	OS15
ATOM	47357	O	PHE	O	15	131.997	108.475	-67.411	1.00 96.99	OS15
ATOM	47358	N	ALA	O	16	133.263	110.119	-68.288	1.00 85.56	OS15
ATOM	47359	CA	ALA	O	16	132.526	111.194	-67.628	1.00 85.56	OS15
ATOM	47360	CB	ALA	O	16	132.829	112.523	-68.313	1.00 63.10	OS15
ATOM	47361	C	ALA	O	16	131.007	110.956	-67.563	1.00 85.56	OS15
ATOM	47362	O	ALA	O	16	130.353	110.691	-68.576	1.00 85.56	OS15
ATOM	47363	N	ARG	O	17	130.469	111.054	-66.349	1.00100.38	OS15
ATOM	47364	CA	ARG	O	17	129.047	110.853	-66.060	1.00100.38	OS15
ATOM	47365	CB	ARG	O	17	128.824	110.975	-64.554	1.00122.72	OS15
ATOM	47366	CG	ARG	O	17	129.711	110.081	-63.705	1.00122.72	OS15
ATOM	47367	CD	ARG	O	17	129.208	108.650	-63.689	1.00122.72	OS15
ATOM	47368	NE	ARG	O	17	127.772	108.568	-63.422	1.00122.72	OS15
ATOM	47369	CZ	ARG	O	17	127.142	109.191	-62.426	1.00122.72	OS15
ATOM	47370	NH1	ARG	O	17	127.813	109.963	-61.573	1.00122.72	OS15
ATOM	47371	NH2	ARG	O	17	125.828	109.047	-62.288	1.00122.72	OS15
ATOM	47372	C	ARG	O	17	128.131	111.849	-66.771	1.00100.38	OS15
ATOM	47373	O	ARG	O	17	126.925	111.624	-66.900	1.00100.38	OS15
ATOM	47374	N	PHE	O	18	128.714	112.954	-67.218	1.00 86.49	OS15
ATOM	47375	CA	PHE	O	18	127.975	114.009	-67.896	1.00 86.49	OS15
ATOM	47376	CB	PHE	O	18	127.039	114.683	-66.905	1.00111.24	OS15
ATOM	47377	CG	PHE	O	18	127.729	115.128	-65.660	1.00111.24	OS15
ATOM	47378	CD1	PHE	O	18	128.444	116.323	-65.634	1.00111.24	OS15
ATOM	47379	CD2	PHE	O	18	127.731	114.315	-64.529	1.00111.24	OS15
ATOM	47380	CE1	PHE	O	18	129.158	116.704	-64.496	1.00111.24	OS15
ATOM	47381	CE2	PHE	O	18	128.440	114.684	-63.387	1.00111.24	OS15
ATOM	47382	CZ	PHE	O	18	129.157	115.881	-63.370	1.00111.24	OS15
ATOM	47383	C	PHE	O	18	128.981	115.022	-68.427	1.00 86.49	OS15
ATOM	47384	O	PHE	O	18	130.093	115.130	-67.911	1.00 86.49	OS15
ATOM	47385	N	PRO	O	19	128.604	115.783	-69.463	1.00120.37	OS15
ATOM	47386	CD	PRO	O	19	127.288	115.860	-70.122	1.00105.95	OS15
ATOM	47387	CA	PRO	O	19	129.526	116.775	-70.021	1.00120.37	OS15
ATOM	47388	CB	PRO	O	19	128.637	117.571	-70.969	1.00105.95	OS15
ATOM	47389	CG	PRO	O	19	127.626	116.552	-71.413	1.00105.95	OS15
ATOM	47390	C	PRO	O	19	130.117	117.646	-68.919	1.00120.37	OS15
ATOM	47391	O	PRO	O	19	129.377	118.294	-68.178	1.00120.37	OS15
ATOM	47392	N	GLY	O	20	131.444	117.648	-68.804	1.00103.73	OS15
ATOM	47393	CA	GLY	O	20	132.096	118.460	-67.785	1.00103.73	OS15
ATOM	47394	C	GLY	O	20	132.616	117.670	-66.600	1.00103.73	OS15
ATOM	47395	O	GLY	O	20	133.367	118.183	-65.764	1.00103.73	OS15
ATOM	47396	N	ASP	O	21	132.200	116.413	-66.520	1.00105.54	OS15
ATOM	47397	CA	ASP	O	21	132.636	115.547	-65.443	1.00105.54	OS15
ATOM	47398	CB	ASP	O	21	131.887	114.221	-65.496	1.00113.12	OS15
ATOM	47399	CG	ASP	O	21	132.420	113.222	-64.499	1.00113.12	OS15
ATOM	47400	OD1	ASP	O	21	132.026	112.036	-64.558	1.00113.12	OS15
ATOM	47401	OD2	ASP	O	21	133.238	113.635	-63.651	1.00113.12	OS15
ATOM	47402	C	ASP	O	21	134.118	115.291	-65.637	1.00105.54	OS15
ATOM	47403	O	ASP	O	21	134.506	114.448	-66.444	1.00105.54	OS15
ATOM	47404	N	THR	O	22	134.949	116.015	-64.901	1.00 75.33	OS15
ATOM	47405	CA	THR	O	22	136.386	115.838	-65.033	1.00 75.33	OS15
ATOM	47406	CB	THR	O	22	137.134	117.170	-64.881	1.00 72.95	OS15
ATOM	47407	OG1	THR	O	22	137.268	117.485	-63.489	1.00 72.95	OS15
ATOM	47408	CG2	THR	O	22	136.366	118.296	-65.572	1.00 72.95	OS15
ATOM	47409	C	THR	O	22	136.934	114.868	-63.993	1.00 75.33	OS15
ATOM	47410	O	THR	O	22	137.887	114.153	-64.267	1.00 75.33	OS15

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ATOM	47411	N	GLY	O	23	136.329	114.835	-62.808	1.00	77.07	OS15
ATOM	47412	CA	GLY	O	23	136.826	113.952	-61.763	1.00	77.07	OS15
ATOM	47413	C	GLY	O	23	135.832	113.129	-60.952	1.00	77.07	OS15
ATOM	47414	O	GLY	O	23	135.836	113.173	-59.713	1.00	77.07	OS15
ATOM	47415	N	SER	O	24	134.972	112.377	-61.636	1.00	81.29	OS15
ATOM	47416	CA	SER	O	24	134.012	111.519	-60.951	1.00	81.29	OS15
ATOM	47417	CB	SER	O	24	132.907	111.046	-61.893	1.00	119.12	OS15
ATOM	47418	OG	SER	O	24	131.916	112.037	-62.064	1.00	119.12	OS15
ATOM	47419	C	SER	O	24	134.815	110.323	-60.524	1.00	81.29	OS15
ATOM	47420	O	SER	O	24	136.029	110.286	-60.686	1.00	81.29	OS15
ATOM	47421	N	THR	O	25	134.144	109.323	-59.995	1.00	71.60	OS15
ATOM	47422	CA	THR	O	25	134.859	108.147	-59.572	1.00	71.60	OS15
ATOM	47423	CB	THR	O	25	134.071	107.420	-58.493	1.00	54.45	OS15
ATOM	47424	OG1	THR	O	25	133.672	108.373	-57.500	1.00	54.45	OS15
ATOM	47425	CG2	THR	O	25	134.920	106.356	-57.842	1.00	54.45	OS15
ATOM	47426	C	THR	O	25	135.125	107.243	-60.771	1.00	71.60	OS15
ATOM	47427	O	THR	O	25	136.161	106.592	-60.831	1.00	71.60	OS15
ATOM	47428	N	GLU	O	26	134.205	107.213	-61.734	1.00	86.58	OS15
ATOM	47429	CA	GLU	O	26	134.397	106.381	-62.923	1.00	86.58	OS15
ATOM	47430	CB	GLU	O	26	133.180	106.412	-63.855	1.00	93.23	OS15
ATOM	47431	CG	GLU	O	26	131.974	105.630	-63.382	1.00	93.23	OS15
ATOM	47432	CD	GLU	O	26	131.190	106.357	-62.306	1.00	93.23	OS15
ATOM	47433	OE1	GLU	O	26	130.138	105.839	-61.877	1.00	93.23	OS15
ATOM	47434	OE2	GLU	O	26	131.618	107.452	-61.886	1.00	93.23	OS15
ATOM	47435	C	GLU	O	26	135.593	106.919	-63.678	1.00	86.58	OS15
ATOM	47436	O	GLU	O	26	136.435	106.158	-64.151	1.00	86.58	OS15
ATOM	47437	N	VAL	O	27	135.660	108.241	-63.786	1.00	62.37	OS15
ATOM	47438	CA	VAL	O	27	136.761	108.884	-64.491	1.00	62.37	OS15
ATOM	47439	CB	VAL	O	27	136.609	110.428	-64.504	1.00	50.88	OS15
ATOM	47440	CG1	VAL	O	27	137.642	111.042	-65.425	1.00	50.88	OS15
ATOM	47441	CG2	VAL	O	27	135.204	110.814	-64.958	1.00	50.88	OS15
ATOM	47442	C	VAL	O	27	138.069	108.519	-63.806	1.00	62.37	OS15
ATOM	47443	O	VAL	O	27	138.908	107.829	-64.389	1.00	62.37	OS15
ATOM	47444	N	GLN	O	28	138.231	108.967	-62.563	1.00	76.04	OS15
ATOM	47445	CA	GLN	O	28	139.445	108.689	-61.813	1.00	76.04	OS15
ATOM	47446	CB	GLN	O	28	139.259	109.065	-60.349	1.00	76.23	OS15
ATOM	47447	CG	GLN	O	28	139.634	110.514	-60.080	1.00	76.23	OS15
ATOM	47448	CD	GLN	O	28	139.330	110.968	-58.658	1.00	76.23	OS15
ATOM	47449	OE1	GLN	O	28	139.617	110.263	-57.689	1.00	76.23	OS15
ATOM	47450	NE2	GLN	O	28	138.754	112.162	-58.529	1.00	76.23	OS15
ATOM	47451	C	GLN	O	28	139.892	107.245	-61.947	1.00	76.04	OS15
ATOM	47452	O	GLN	O	28	141.050	106.986	-62.263	1.00	76.04	OS15
ATOM	47453	N	VAL	O	29	138.987	106.300	-61.725	1.00	57.24	OS15
ATOM	47454	CA	VAL	O	29	139.350	104.891	-61.857	1.00	57.24	OS15
ATOM	47455	CB	VAL	O	29	138.138	103.955	-61.534	1.00	46.13	OS15
ATOM	47456	CG1	VAL	O	29	138.490	102.496	-61.810	1.00	46.13	OS15
ATOM	47457	CG2	VAL	O	29	137.747	104.106	-60.063	1.00	46.13	OS15
ATOM	47458	C	VAL	O	29	139.841	104.636	-63.287	1.00	57.24	OS15
ATOM	47459	O	VAL	O	29	140.739	103.817	-63.516	1.00	57.24	OS15
ATOM	47460	N	ALA	O	30	139.265	105.356	-64.244	1.00	64.82	OS15
ATOM	47461	CA	ALA	O	30	139.648	105.203	-65.641	1.00	64.82	OS15
ATOM	47462	CB	ALA	O	30	138.729	106.033	-66.537	1.00	89.78	OS15
ATOM	47463	C	ALA	O	30	141.099	105.616	-65.854	1.00	64.82	OS15
ATOM	47464	O	ALA	O	30	141.922	104.788	-66.255	1.00	64.82	OS15
ATOM	47465	N	LEU	O	31	141.410	106.885	-65.578	1.00	81.96	OS15
ATOM	47466	CA	LEU	O	31	142.774	107.408	-65.748	1.00	81.96	OS15
ATOM	47467	CB	LEU	O	31	142.858	108.877	-65.306	1.00	66.08	OS15
ATOM	47468	CG	LEU	O	31	142.024	109.878	-66.111	1.00	66.08	OS15
ATOM	47469	CD1	LEU	O	31	140.579	109.712	-65.737	1.00	66.08	OS15
ATOM	47470	CD2	LEU	O	31	142.447	111.297	-65.824	1.00	66.08	OS15
ATOM	47471	C	LEU	O	31	143.833	106.594	-64.995	1.00	81.96	OS15
ATOM	47472	O	LEU	O	31	144.944	106.395	-65.496	1.00	81.96	OS15
ATOM	47473	N	LEU	O	32	143.489	106.132	-63.793	1.00	84.44	OS15
ATOM	47474	CA	LEU	O	32	144.406	105.328	-62.992	1.00	84.44	OS15
ATOM	47475	CB	LEU	O	32	143.824	105.045	-61.608	1.00	85.82	OS15
ATOM	47476	CG	LEU	O	32	144.007	106.147	-60.566	1.00	85.82	OS15
ATOM	47477	CD1	LEU	O	32	143.596	105.621	-59.207	1.00	85.82	OS15
ATOM	47478	CD2	LEU	O	32	145.462	106.577	-60.523	1.00	85.82	OS15
ATOM	47479	C	LEU	O	32	144.692	104.014	-63.683	1.00	84.44	OS15
ATOM	47480	O	LEU	O	32	145.840	103.589	-63.773	1.00	84.44	OS15
ATOM	47481	N	THR	O	33	143.642	103.367	-64.168	1.00	64.60	OS15
ATOM	47482	CA	THR	O	33	143.811	102.103	-64.859	1.00	64.60	OS15
ATOM	47483	CB	THR	O	33	142.469	101.546	-65.311	1.00	77.69	OS15
ATOM	47484	OG1	THR	O	33	141.610	101.435	-64.167	1.00	77.69	OS15
ATOM	47485	CG2	THR	O	33	142.649	100.164	-65.963	1.00	77.69	OS15
ATOM	47486	C	THR	O	33	144.706	102.317	-66.062	1.00	64.60	OS15
ATOM	47487	O	THR	O	33	145.445	101.422	-66.467	1.00	64.60	OS15

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ATOM	47488	N	LEU	O	34	144.648	103.519	-66.621	1.00	78.67	OS15
ATOM	47489	CA	LEU	O	34	145.470	103.858	-67.776	1.00	78.67	OS15
ATOM	47490	CB	LEU	O	34	145.056	105.224	-68.329	1.00	74.80	OS15
ATOM	47491	CG	LEU	O	34	145.533	105.639	-69.725	1.00	74.80	OS15
ATOM	47492	CD1	LEU	O	34	144.985	107.029	-70.002	1.00	74.80	OS15
ATOM	47493	CD2	LEU	O	34	147.060	105.639	-69.823	1.00	74.80	OS15
ATOM	47494	C	LEU	O	34	146.946	103.880	-67.364	1.00	78.67	OS15
ATOM	47495	O	LEU	O	34	147.763	103.153	-67.936	1.00	78.67	OS15
ATOM	47496	N	ARG	O	35	147.274	104.712	-66.372	1.00	64.49	OS15
ATOM	47497	CA	ARG	O	35	148.645	104.838	-65.865	1.00	64.49	OS15
ATOM	47498	CB	ARG	O	35	148.704	105.851	-64.714	1.00	90.06	OS15
ATOM	47499	CG	ARG	O	35	148.222	107.258	-65.050	1.00	90.06	OS15
ATOM	47500	CD	ARG	O	35	148.541	108.206	-63.903	1.00	90.06	OS15
ATOM	47501	NE	ARG	O	35	149.988	108.287	-63.692	1.00	90.06	OS15
ATOM	47502	CZ	ARG	O	35	150.580	108.497	-62.514	1.00	90.06	OS15
ATOM	47503	NH1	ARG	O	35	149.856	108.650	-61.407	1.00	90.06	OS15
ATOM	47504	NH2	ARG	O	35	151.905	108.550	-62.442	1.00	90.06	OS15
ATOM	47505	C	ARG	O	35	149.167	103.486	-65.366	1.00	64.49	OS15
ATOM	47506	O	ARG	O	35	150.273	103.059	-65.704	1.00	64.49	OS15
ATOM	47507	N	ILE	O	36	148.363	102.819	-64.553	1.00	62.74	OS15
ATOM	47508	CA	ILE	O	36	148.747	101.531	-64.022	1.00	62.74	OS15
ATOM	47509	CB	ILE	O	36	147.614	100.917	-63.190	1.00	67.20	OS15
ATOM	47510	CG2	ILE	O	36	147.554	99.409	-63.405	1.00	67.20	OS15
ATOM	47511	CG1	ILE	O	36	147.815	101.291	-61.715	1.00	67.20	OS15
ATOM	47512	CD1	ILE	O	36	146.744	100.761	-60.790	1.00	67.20	OS15
ATOM	47513	C	ILE	O	36	149.135	100.558	-65.117	1.00	62.74	OS15
ATOM	47514	O	ILE	O	36	150.019	99.727	-64.933	1.00	62.74	OS15
ATOM	47515	N	ASN	O	37	148.478	100.649	-66.262	1.00	71.30	OS15
ATOM	47516	CA	ASN	O	37	148.799	99.735	-67.338	1.00	71.30	OS15
ATOM	47517	CB	ASN	O	37	147.645	99.684	-68.315	1.00	68.21	OS15
ATOM	47518	CG	ASN	O	37	146.508	98.846	-67.785	1.00	68.21	OS15
ATOM	47519	OD1	ASN	O	37	145.383	98.916	-68.271	1.00	68.21	OS15
ATOM	47520	ND2	ASN	O	37	146.803	98.031	-66.776	1.00	68.21	OS15
ATOM	47521	C	ASN	O	37	150.093	100.101	-68.013	1.00	71.30	OS15
ATOM	47522	O	ASN	O	37	150.958	99.244	-68.182	1.00	71.30	OS15
ATOM	47523	N	ARG	O	38	150.244	101.369	-68.380	1.00	77.22	OS15
ATOM	47524	CA	ARG	O	38	151.481	101.814	-69.012	1.00	77.22	OS15
ATOM	47525	CB	ARG	O	38	151.490	103.332	-69.192	1.00	102.97	OS15
ATOM	47526	CG	ARG	O	38	150.363	103.881	-70.027	1.00	102.97	OS15
ATOM	47527	CD	ARG	O	38	150.375	103.304	-71.426	1.00	102.97	OS15
ATOM	47528	NE	ARG	O	38	149.770	104.217	-72.394	1.00	102.97	OS15
ATOM	47529	CZ	ARG	O	38	150.246	105.429	-72.671	1.00	102.97	OS15
ATOM	47530	NH1	ARG	O	38	151.335	105.876	-72.051	1.00	102.97	OS15
ATOM	47531	NH2	ARG	O	38	149.637	106.196	-73.568	1.00	102.97	OS15
ATOM	47532	C	ARG	O	38	152.653	101.425	-68.106	1.00	77.22	OS15
ATOM	47533	O	ARG	O	38	153.627	100.798	-68.553	1.00	77.22	OS15
ATOM	47534	N	LEU	O	39	152.532	101.792	-66.827	1.00	59.83	OS15
ATOM	47535	CA	LEU	O	39	153.568	101.536	-65.830	1.00	59.83	OS15
ATOM	47536	CB	LEU	O	39	153.171	102.147	-64.480	1.00	75.69	OS15
ATOM	47537	CG	LEU	O	39	154.259	102.199	-63.401	1.00	75.69	OS15
ATOM	47538	CD1	LEU	O	39	153.936	103.276	-62.397	1.00	75.69	OS15
ATOM	47539	CD2	LEU	O	39	154.368	100.855	-62.713	1.00	75.69	OS15
ATOM	47540	C	LEU	O	39	153.866	100.062	-65.675	1.00	59.83	OS15
ATOM	47541	O	LEU	O	39	155.020	99.654	-65.735	1.00	59.83	OS15
ATOM	47542	N	SER	O	40	152.836	99.257	-65.467	1.00	67.17	OS15
ATOM	47543	CA	SER	O	40	153.058	97.827	-65.332	1.00	67.17	OS15
ATOM	47544	CB	SER	O	40	151.750	97.105	-65.020	1.00	134.31	OS15
ATOM	47545	OG	SER	O	40	151.308	97.429	-63.714	1.00	134.31	OS15
ATOM	47546	C	SER	O	40	153.650	97.304	-66.640	1.00	67.17	OS15
ATOM	47547	O	SER	O	40	154.261	96.231	-66.672	1.00	67.17	OS15
ATOM	47548	N	GLU	O	41	153.462	98.072	-67.713	1.00	74.36	OS15
ATOM	47549	CA	GLU	O	41	153.993	97.704	-69.012	1.00	74.36	OS15
ATOM	47550	CB	GLU	O	41	153.320	98.513	-70.113	1.00	110.29	OS15
ATOM	47551	CG	GLU	O	41	153.679	98.016	-71.484	1.00	110.29	OS15
ATOM	47552	CD	GLU	O	41	153.416	96.524	-71.633	1.00	110.29	OS15
ATOM	47553	OE1	GLU	O	41	153.816	95.941	-72.665	1.00	110.29	OS15
ATOM	47554	OE2	GLU	O	41	152.805	95.930	-70.716	1.00	110.29	OS15
ATOM	47555	C	GLU	O	41	155.488	97.993	-68.999	1.00	74.36	OS15
ATOM	47556	O	GLU	O	41	156.314	97.173	-69.408	1.00	74.36	OS15
ATOM	47557	N	HIS	O	42	155.822	99.181	-68.518	1.00	82.80	OS15
ATOM	47558	CA	HIS	O	42	157.202	99.617	-68.407	1.00	82.80	OS15
ATOM	47559	CB	HIS	O	42	157.225	101.036	-67.833	1.00	93.69	OS15
ATOM	47560	CG	HIS	O	42	158.457	101.367	-67.047	1.00	93.69	OS15
ATOM	47561	CD2	HIS	O	42	158.613	101.734	-65.753	1.00	93.69	OS15
ATOM	47562	ND1	HIS	O	42	159.716	101.394	-67.606	1.00	93.69	OS15
ATOM	47563	CE1	HIS	O	42	160.594	101.768	-66.691	1.00	93.69	OS15
ATOM	47564	NE2	HIS	O	42	159.950	101.982	-65.558	1.00	93.69	OS15

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ATOM	47565	C	HIS	O	42	157.979	98.661	-67.507	1.00	82.80	OS15
ATOM	47566	O	HIS	O	42	159.140	98.369	-67.762	1.00	82.80	OS15
ATOM	47567	N	LEU	O	43	157.339	98.166	-66.459	1.00	68.84	OS15
ATOM	47568	CA	LEU	O	43	158.018	97.259	-65.551	1.00	68.84	OS15
ATOM	47569	CB	LEU	O	43	157.355	97.287	-64.175	1.00	62.03	OS15
ATOM	47570	CG	LEU	O	43	157.366	98.646	-63.482	1.00	62.03	OS15
ATOM	47571	CD1	LEU	O	43	156.680	98.561	-62.143	1.00	62.03	OS15
ATOM	47572	CD2	LEU	O	43	158.786	99.085	-63.303	1.00	62.03	OS15
ATOM	47573	C	LEU	O	43	158.071	95.823	-66.064	1.00	68.84	OS15
ATOM	47574	O	LEU	O	43	158.678	94.963	-65.415	1.00	68.84	OS15
ATOM	47575	N	LYS	O	44	157.430	95.550	-67.205	1.00	82.90	OS15
ATOM	47576	CA	LYS	O	44	157.463	94.198	-67.772	1.00	82.90	OS15
ATOM	47577	CB	LYS	O	44	156.683	94.116	-69.085	1.00	127.42	OS15
ATOM	47578	CG	LYS	O	44	155.178	94.299	-68.960	1.00	127.42	OS15
ATOM	47579	CD	LYS	O	44	154.422	92.983	-68.772	1.00	127.42	OS15
ATOM	47580	CE	LYS	O	44	152.907	93.236	-68.806	1.00	127.42	OS15
ATOM	47581	NZ	LYS	O	44	152.071	92.001	-68.717	1.00	127.42	OS15
ATOM	47582	C	LYS	O	44	158.932	94.031	-68.049	1.00	82.90	OS15
ATOM	47583	O	LYS	O	44	159.484	92.942	-67.944	1.00	82.90	OS15
ATOM	47584	N	VAL	O	45	159.542	95.153	-68.410	1.00	103.36	OS15
ATOM	47585	CA	VAL	O	45	160.962	95.251	-68.683	1.00	103.36	OS15
ATOM	47586	CB	VAL	O	45	161.231	96.184	-69.843	1.00	55.26	OS15
ATOM	47587	CG1	VAL	O	45	162.643	95.961	-70.358	1.00	55.26	OS15
ATOM	47588	CG2	VAL	O	45	160.167	96.014	-70.907	1.00	55.26	OS15
ATOM	47589	C	VAL	O	45	161.456	95.961	-67.437	1.00	103.36	OS15
ATOM	47590	O	VAL	O	45	160.738	96.006	-66.442	1.00	103.36	OS15
ATOM	47591	N	HIS	O	46	162.653	96.541	-67.486	1.00	83.09	OS15
ATOM	47592	CA	HIS	O	46	163.190	97.270	-66.332	1.00	83.09	OS15
ATOM	47593	CB	HIS	O	46	162.774	98.736	-66.411	1.00	78.83	OS15
ATOM	47594	CG	HIS	O	46	163.036	99.365	-67.738	1.00	78.83	OS15
ATOM	47595	CD2	HIS	O	46	163.845	100.392	-68.096	1.00	78.83	OS15
ATOM	47596	ND1	HIS	O	46	162.419	98.940	-68.893	1.00	78.83	OS15
ATOM	47597	CE1	HIS	O	46	162.835	99.680	-69.906	1.00	78.83	OS15
ATOM	47598	NE2	HIS	O	46	163.702	100.568	-69.450	1.00	78.83	OS15
ATOM	47599	C	HIS	O	46	162.704	96.712	-64.991	1.00	83.09	OS15
ATOM	47600	O	HIS	O	46	162.227	97.461	-64.143	1.00	83.09	OS15
ATOM	47601	N	LYS	O	47	162.813	95.403	-64.799	1.00	73.72	OS15
ATOM	47602	CA	LYS	O	47	162.356	94.799	-63.559	1.00	73.72	OS15
ATOM	47603	CB	LYS	O	47	162.525	93.280	-63.627	1.00	103.82	OS15
ATOM	47604	CG	LYS	O	47	161.729	92.670	-64.767	1.00	103.82	OS15
ATOM	47605	CD	LYS	O	47	161.827	91.153	-64.841	1.00	103.82	OS15
ATOM	47606	CE	LYS	O	47	160.999	90.624	-66.019	1.00	103.82	OS15
ATOM	47607	NZ	LYS	O	47	161.044	89.141	-66.171	1.00	103.82	OS15
ATOM	47608	C	LYS	O	47	163.137	95.386	-62.396	1.00	73.72	OS15
ATOM	47609	O	LYS	O	47	162.612	95.543	-61.293	1.00	73.72	OS15
ATOM	47610	N	LYS	O	48	164.388	95.741	-62.654	1.00	83.50	OS15
ATOM	47611	CA	LYS	O	48	165.224	96.308	-61.614	1.00	83.50	OS15
ATOM	47612	CB	LYS	O	48	166.694	96.269	-62.041	1.00	99.51	OS15
ATOM	47613	CG	LYS	O	48	167.300	94.863	-62.014	1.00	99.51	OS15
ATOM	47614	CD	LYS	O	48	168.761	94.854	-62.477	1.00	99.51	OS15
ATOM	47615	CE	LYS	O	48	168.905	95.282	-63.944	1.00	99.51	OS15
ATOM	47616	NZ	LYS	O	48	170.326	95.294	-64.404	1.00	99.51	OS15
ATOM	47617	C	LYS	O	48	164.812	97.723	-61.206	1.00	83.50	OS15
ATOM	47618	O	LYS	O	48	165.216	98.190	-60.147	1.00	83.50	OS15
ATOM	47619	N	ASP	O	49	164.008	98.404	-62.024	1.00	71.32	OS15
ATOM	47620	CA	ASP	O	49	163.551	99.754	-61.678	1.00	71.32	OS15
ATOM	47621	CB	ASP	O	49	162.869	100.432	-62.870	1.00	71.20	OS15
ATOM	47622	CG	ASP	O	49	162.412	101.858	-62.554	1.00	71.20	OS15
ATOM	47623	OD1	ASP	O	49	162.257	102.181	-61.358	1.00	71.20	OS15
ATOM	47624	OD2	ASP	O	49	162.197	102.656	-63.498	1.00	71.20	OS15
ATOM	47625	C	ASP	O	49	162.545	99.670	-60.523	1.00	71.32	OS15
ATOM	47626	O	ASP	O	49	161.343	99.846	-60.723	1.00	71.32	OS15
ATOM	47627	N	HIS	O	50	163.038	99.404	-59.318	1.00	74.97	OS15
ATOM	47628	CA	HIS	O	50	162.180	99.290	-58.150	1.00	74.97	OS15
ATOM	47629	CB	HIS	O	50	162.982	98.779	-56.965	1.00	67.09	OS15
ATOM	47630	CG	HIS	O	50	163.660	97.473	-57.216	1.00	67.09	OS15
ATOM	47631	CD2	HIS	O	50	164.937	97.075	-57.006	1.00	67.09	OS15
ATOM	47632	ND1	HIS	O	50	162.987	96.367	-57.685	1.00	67.09	OS15
ATOM	47633	CE1	HIS	O	50	163.819	95.342	-57.746	1.00	67.09	OS15
ATOM	47634	NE2	HIS	O	50	165.009	95.745	-57.338	1.00	67.09	OS15
ATOM	47635	C	HIS	O	50	161.533	100.612	-57.775	1.00	74.97	OS15
ATOM	47636	O	HIS	O	50	160.356	100.656	-57.424	1.00	74.97	OS15
ATOM	47637	N	HIS	O	51	162.298	101.693	-57.834	1.00	55.59	OS15
ATOM	47638	CA	HIS	O	51	161.747	102.996	-57.492	1.00	55.59	OS15
ATOM	47639	CB	HIS	O	51	162.756	104.091	-57.822	1.00	73.16	OS15
ATOM	47640	CG	HIS	O	51	163.859	104.198	-56.818	1.00	73.16	OS15
ATOM	47641	CD2	HIS	O	51	164.357	105.263	-56.146	1.00	73.16	OS15

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ATOM	47642	ND1	HIS	O	51	164.561	103.100	-56.370	1.00	73.16	OS15
ATOM	47643	CE1	HIS	O	51	165.442	103.485	-55.462	1.00	73.16	OS15
ATOM	47644	NE2	HIS	O	51	165.339	104.793	-55.307	1.00	73.16	OS15
ATOM	47645	C	HIS	O	51	160.411	103.288	-58.166	1.00	55.59	OS15
ATOM	47646	O	HIS	O	51	159.463	103.680	-57.498	1.00	55.59	OS15
ATOM	47647	N	SER	O	52	160.330	103.094	-59.481	1.00	70.21	OS15
ATOM	47648	CA	SER	O	52	159.087	103.340	-60.218	1.00	70.21	OS15
ATOM	47649	CB	SER	O	52	159.297	103.139	-61.724	1.00	58.44	OS15
ATOM	47650	OG	SER	O	52	160.004	104.220	-62.310	1.00	58.44	OS15
ATOM	47651	C	SER	O	52	157.985	102.403	-59.744	1.00	70.21	OS15
ATOM	47652	O	SER	O	52	156.805	102.750	-59.759	1.00	70.21	OS15
ATOM	47653	N	HIS	O	53	158.376	101.211	-59.319	1.00	67.18	OS15
ATOM	47654	CA	HIS	O	53	157.416	100.228	-58.858	1.00	67.18	OS15
ATOM	47655	CB	HIS	O	53	158.143	98.952	-58.453	1.00	75.57	OS15
ATOM	47656	CG	HIS	O	53	157.229	97.821	-58.101	1.00	75.57	OS15
ATOM	47657	CD2	HIS	O	53	156.780	96.776	-58.837	1.00	75.57	OS15
ATOM	47658	ND1	HIS	O	53	156.662	97.684	-56.853	1.00	75.57	OS15
ATOM	47659	CE1	HIS	O	53	155.905	96.601	-56.836	1.00	75.57	OS15
ATOM	47660	NE2	HIS	O	53	155.960	96.032	-58.027	1.00	75.57	OS15
ATOM	47661	C	HIS	O	53	156.559	100.740	-57.705	1.00	67.18	OS15
ATOM	47662	O	HIS	O	53	155.356	100.468	-57.655	1.00	67.18	OS15
ATOM	47663	N	ARG	O	54	157.171	101.475	-56.777	1.00	72.65	OS15
ATOM	47664	CA	ARG	O	54	156.427	102.026	-55.642	1.00	72.65	OS15
ATOM	47665	CB	ARG	O	54	157.302	102.978	-54.830	1.00	63.98	OS15
ATOM	47666	CG	ARG	O	54	156.638	103.502	-53.581	1.00	63.98	OS15
ATOM	47667	CD	ARG	O	54	157.424	104.650	-52.986	1.00	63.98	OS15
ATOM	47668	NE	ARG	O	54	156.694	105.289	-51.892	1.00	63.98	OS15
ATOM	47669	CZ	ARG	O	54	156.704	106.599	-51.660	1.00	63.98	OS15
ATOM	47670	NH1	ARG	O	54	157.408	107.407	-52.449	1.00	63.98	OS15
ATOM	47671	NH2	ARG	O	54	156.005	107.103	-50.648	1.00	63.98	OS15
ATOM	47672	C	ARG	O	54	155.231	102.794	-56.186	1.00	72.65	OS15
ATOM	47673	O	ARG	O	54	154.085	102.515	-55.826	1.00	72.65	OS15
ATOM	47674	N	GLY	O	55	155.514	103.758	-57.060	1.00	73.07	OS15
ATOM	47675	CA	GLY	O	55	154.466	104.555	-57.674	1.00	73.07	OS15
ATOM	47676	C	GLY	O	55	153.313	103.689	-58.150	1.00	73.07	OS15
ATOM	47677	O	GLY	O	55	152.153	104.097	-58.074	1.00	73.07	OS15
ATOM	47678	N	LEU	O	56	153.631	102.495	-58.646	1.00	52.78	OS15
ATOM	47679	CA	LEU	O	56	152.612	101.567	-59.108	1.00	52.78	OS15
ATOM	47680	CB	LEU	O	56	153.251	100.297	-59.647	1.00	56.98	OS15
ATOM	47681	CG	LEU	O	56	152.246	99.212	-60.014	1.00	56.98	OS15
ATOM	47682	CD1	LEU	O	56	151.468	99.631	-61.237	1.00	56.98	OS15
ATOM	47683	CD2	LEU	O	56	152.988	97.924	-60.290	1.00	56.98	OS15
ATOM	47684	C	LEU	O	56	151.724	101.209	-57.934	1.00	52.78	OS15
ATOM	47685	O	LEU	O	56	150.517	101.433	-57.972	1.00	52.78	OS15
ATOM	47686	N	LEU	O	57	152.341	100.653	-56.892	1.00	70.11	OS15
ATOM	47687	CA	LEU	O	57	151.641	100.264	-55.669	1.00	70.11	OS15
ATOM	47688	CB	LEU	O	57	152.638	99.890	-54.588	1.00	79.07	OS15
ATOM	47689	CG	LEU	O	57	152.900	98.393	-54.530	1.00	79.07	OS15
ATOM	47690	CD1	LEU	O	57	152.955	97.819	-55.945	1.00	79.07	OS15
ATOM	47691	CD2	LEU	O	57	154.195	98.142	-53.760	1.00	79.07	OS15
ATOM	47692	C	LEU	O	57	150.773	101.376	-55.148	1.00	70.11	OS15
ATOM	47693	O	LEU	O	57	149.696	101.132	-54.609	1.00	70.11	OS15
ATOM	47694	N	MET	O	58	151.259	102.598	-55.297	1.00	57.34	OS15
ATOM	47695	CA	MET	O	58	150.523	103.761	-54.854	1.00	57.34	OS15
ATOM	47696	CB	MET	O	58	151.404	104.993	-54.983	1.00	69.84	OS15
ATOM	47697	CG	MET	O	58	152.662	104.879	-54.173	1.00	69.84	OS15
ATOM	47698	SD	MET	O	58	153.051	106.412	-53.315	1.00	69.84	OS15
ATOM	47699	CE	MET	O	58	154.113	107.178	-54.495	1.00	69.84	OS15
ATOM	47700	C	MET	O	58	149.240	103.939	-55.667	1.00	57.34	OS15
ATOM	47701	O	MET	O	58	148.151	104.096	-55.099	1.00	57.34	OS15
ATOM	47702	N	MET	O	59	149.376	103.918	-56.994	1.00	56.77	OS15
ATOM	47703	CA	MET	O	59	148.239	104.076	-57.887	1.00	56.77	OS15
ATOM	47704	CB	MET	O	59	148.694	104.072	-59.335	1.00	84.82	OS15
ATOM	47705	CG	MET	O	59	149.829	105.016	-59.608	1.00	84.82	OS15
ATOM	47706	SD	MET	O	59	150.436	104.798	-61.282	1.00	84.82	OS15
ATOM	47707	CE	MET	O	59	150.803	103.063	-61.275	1.00	84.82	OS15
ATOM	47708	C	MET	O	59	147.302	102.915	-57.669	1.00	56.77	OS15
ATOM	47709	O	MET	O	59	146.087	103.096	-57.561	1.00	56.77	OS15
ATOM	47710	N	VAL	O	60	147.864	101.716	-57.595	1.00	60.32	OS15
ATOM	47711	CA	VAL	O	60	147.029	100.542	-57.400	1.00	60.32	OS15
ATOM	47712	CB	VAL	O	60	147.843	99.242	-57.325	1.00	51.00	OS15
ATOM	47713	CG1	VAL	O	60	146.897	98.060	-57.195	1.00	51.00	OS15
ATOM	47714	CG2	VAL	O	60	148.699	99.090	-58.579	1.00	51.00	OS15
ATOM	47715	C	VAL	O	60	146.214	100.683	-56.134	1.00	60.32	OS15
ATOM	47716	O	VAL	O	60	145.073	100.235	-56.072	1.00	60.32	OS15
ATOM	47717	N	GLY	O	61	146.798	101.306	-55.121	1.00	68.99	OS15
ATOM	47718	CA	GLY	O	61	146.067	101.499	-53.888	1.00	68.99	OS15

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ATOM	47719	C	GLY	O	61	144.955	102.483	-54.175	1.00	68.99	OS15
ATOM	47720	O	GLY	O	61	143.764	102.139	-54.146	1.00	68.99	OS15
ATOM	47721	N	GLN	O	62	145.358	103.714	-54.480	1.00	74.08	OS15
ATOM	47722	CA	GLN	O	62	144.426	104.787	-54.780	1.00	74.08	OS15
ATOM	47723	CB	GLN	O	62	145.158	105.897	-55.532	1.00	77.23	OS15
ATOM	47724	CG	GLN	O	62	144.361	107.179	-55.724	1.00	77.23	OS15
ATOM	47725	CD	GLN	O	62	143.767	107.715	-54.428	1.00	77.23	OS15
ATOM	47726	OE1	GLN	O	62	144.335	107.542	-53.345	1.00	77.23	OS15
ATOM	47727	NE2	GLN	O	62	142.621	108.386	-54.538	1.00	77.23	OS15
ATOM	47728	C	GLN	O	62	143.242	104.276	-55.601	1.00	74.08	OS15
ATOM	47729	O	GLN	O	62	142.103	104.686	-55.383	1.00	74.08	OS15
ATOM	47730	N	ARG	O	63	143.504	103.356	-56.525	1.00	63.21	OS15
ATOM	47731	CA	ARG	O	63	142.436	102.834	-57.368	1.00	63.21	OS15
ATOM	47732	CB	ARG	O	63	142.990	102.031	-58.544	1.00	70.29	OS15
ATOM	47733	CG	ARG	O	63	141.890	101.616	-59.512	1.00	70.29	OS15
ATOM	47734	CD	ARG	O	63	142.445	101.123	-60.831	1.00	70.29	OS15
ATOM	47735	NE	ARG	O	63	143.020	99.793	-60.712	1.00	70.29	OS15
ATOM	47736	CZ	ARG	O	63	143.471	99.092	-61.743	1.00	70.29	OS15
ATOM	47737	NH1	ARG	O	63	143.415	99.602	-62.962	1.00	70.29	OS15
ATOM	47738	NH2	ARG	O	63	143.963	97.878	-61.559	1.00	70.29	OS15
ATOM	47739	C	ARG	O	63	141.416	101.985	-56.649	1.00	63.21	OS15
ATOM	47740	O	ARG	O	63	140.239	102.333	-56.627	1.00	63.21	OS15
ATOM	47741	N	ARG	O	64	141.844	100.862	-56.079	1.00	73.83	OS15
ATOM	47742	CA	ARG	O	64	140.887	100.010	-55.388	1.00	73.83	OS15
ATOM	47743	CB	ARG	O	64	141.541	98.734	-54.836	1.00	130.33	OS15
ATOM	47744	CG	ARG	O	64	143.040	98.779	-54.675	1.00	130.33	OS15
ATOM	47745	CD	ARG	O	64	143.571	97.405	-54.299	1.00	130.33	OS15
ATOM	47746	NE	ARG	O	64	143.029	96.951	-53.022	1.00	130.33	OS15
ATOM	47747	CZ	ARG	O	64	143.287	97.527	-51.850	1.00	130.33	OS15
ATOM	47748	NH1	ARG	O	64	144.085	98.586	-51.782	1.00	130.33	OS15
ATOM	47749	NH2	ARG	O	64	142.746	97.044	-50.741	1.00	130.33	OS15
ATOM	47750	C	ARG	O	64	140.215	100.791	-54.279	1.00	73.83	OS15
ATOM	47751	O	ARG	O	64	139.055	100.536	-53.945	1.00	73.83	OS15
ATOM	47752	N	ARG	O	65	140.920	101.772	-53.729	1.00	65.24	OS15
ATOM	47753	CA	ARG	O	65	140.328	102.554	-52.666	1.00	65.24	OS15
ATOM	47754	CB	ARG	O	65	141.395	103.416	-51.986	1.00	83.28	OS15
ATOM	47755	CG	ARG	O	65	140.983	103.892	-50.598	1.00	83.28	OS15
ATOM	47756	CD	ARG	O	65	142.168	104.252	-49.699	1.00	83.28	OS15
ATOM	47757	NE	ARG	O	65	143.099	105.185	-50.324	1.00	83.28	OS15
ATOM	47758	CZ	ARG	O	65	144.170	104.807	-51.013	1.00	83.28	OS15
ATOM	47759	NH1	ARG	O	65	144.443	103.514	-51.154	1.00	83.28	OS15
ATOM	47760	NH2	ARG	O	65	144.958	105.717	-51.572	1.00	83.28	OS15
ATOM	47761	C	ARG	O	65	139.162	103.393	-53.221	1.00	65.24	OS15
ATOM	47762	O	ARG	O	65	138.173	103.624	-52.523	1.00	65.24	OS15
ATOM	47763	N	LEU	O	66	139.258	103.829	-54.478	1.00	78.34	OS15
ATOM	47764	CA	LEU	O	66	138.174	104.603	-55.090	1.00	78.34	OS15
ATOM	47765	CB	LEU	O	66	138.636	105.352	-56.328	1.00	60.69	OS15
ATOM	47766	CG	LEU	O	66	139.472	106.600	-56.080	1.00	60.69	OS15
ATOM	47767	CD1	LEU	O	66	139.412	107.489	-57.318	1.00	60.69	OS15
ATOM	47768	CD2	LEU	O	66	138.930	107.342	-54.864	1.00	60.69	OS15
ATOM	47769	C	LEU	O	66	137.073	103.663	-55.500	1.00	78.34	OS15
ATOM	47770	O	LEU	O	66	135.897	103.992	-55.392	1.00	78.34	OS15
ATOM	47771	N	LEU	O	67	137.460	102.500	-56.005	1.00	71.25	OS15
ATOM	47772	CA	LEU	O	67	136.481	101.510	-56.389	1.00	71.25	OS15
ATOM	47773	CB	LEU	O	67	137.156	100.300	-57.007	1.00	62.85	OS15
ATOM	47774	CG	LEU	O	67	137.749	100.672	-58.354	1.00	62.85	OS15
ATOM	47775	CD1	LEU	O	67	138.668	99.576	-58.852	1.00	62.85	OS15
ATOM	47776	CD2	LEU	O	67	136.612	100.923	-59.321	1.00	62.85	OS15
ATOM	47777	C	LEU	O	67	135.738	101.096	-55.135	1.00	71.25	OS15
ATOM	47778	O	LEU	O	67	134.519	101.023	-55.136	1.00	71.25	OS15
ATOM	47779	N	ARG	O	68	136.463	100.842	-54.054	1.00	69.81	OS15
ATOM	47780	CA	ARG	O	68	135.805	100.438	-52.824	1.00	69.81	OS15
ATOM	47781	CB	ARG	O	68	136.782	100.432	-51.659	1.00	95.64	OS15
ATOM	47782	CG	ARG	O	68	136.098	100.195	-50.334	1.00	95.64	OS15
ATOM	47783	CD	ARG	O	68	137.026	100.519	-49.211	1.00	95.64	OS15
ATOM	47784	NE	ARG	O	68	138.104	99.548	-49.125	1.00	95.64	OS15
ATOM	47785	CZ	ARG	O	68	139.346	99.848	-48.761	1.00	95.64	OS15
ATOM	47786	NH1	ARG	O	68	139.674	101.101	-48.456	1.00	95.64	OS15
ATOM	47787	NH2	ARG	O	68	140.257	98.885	-48.681	1.00	95.64	OS15
ATOM	47788	C	ARG	O	68	134.662	101.385	-52.499	1.00	69.81	OS15
ATOM	47789	O	ARG	O	68	133.531	100.956	-52.225	1.00	69.81	OS15
ATOM	47790	N	TYR	O	69	134.964	102.677	-52.518	1.00	67.07	OS15
ATOM	47791	CA	TYR	O	69	133.954	103.689	-52.235	1.00	67.07	OS15
ATOM	47792	CB	TYR	O	69	134.546	105.090	-52.372	1.00	62.27	OS15
ATOM	47793	CG	TYR	O	69	133.503	106.166	-52.530	1.00	62.27	OS15
ATOM	47794	CD1	TYR	O	69	132.779	106.611	-51.440	1.00	62.27	OS15
ATOM	47795	CE1	TYR	O	69	131.807	107.591	-51.576	1.00	62.27	OS15

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ATOM	47796	CD2	TYR	O	69	133.233	106.724	-53.776	1.00	62.27	OS15
ATOM	47797	CE2	TYR	O	69	132.264	107.702	-53.928	1.00	62.27	OS15
ATOM	47798	CZ	TYR	O	69	131.549	108.136	-52.820	1.00	62.27	OS15
ATOM	47799	OH	TYR	O	69	130.569	109.104	-52.939	1.00	62.27	OS15
ATOM	47800	C	TYR	O	69	132.778	103.572	-53.190	1.00	67.07	OS15
ATOM	47801	O	TYR	O	69	131.635	103.716	-52.785	1.00	67.07	OS15
ATOM	47802	N	LEU	O	70	133.078	103.330	-54.463	1.00	60.78	OS15
ATOM	47803	CA	LEU	O	70	132.065	103.210	-55.500	1.00	60.78	OS15
ATOM	47804	CB	LEU	O	70	132.740	103.035	-56.866	1.00	74.21	OS15
ATOM	47805	CG	LEU	O	70	131.975	103.271	-58.178	1.00	74.21	OS15
ATOM	47806	CD1	LEU	O	70	130.853	102.283	-58.324	1.00	74.21	OS15
ATOM	47807	CD2	LEU	O	70	131.437	104.690	-58.204	1.00	74.21	OS15
ATOM	47808	C	LEU	O	70	131.156	102.025	-55.220	1.00	60.78	OS15
ATOM	47809	O	LEU	O	70	129.958	102.181	-55.002	1.00	60.78	OS15
ATOM	47810	N	GLN	O	71	131.727	100.832	-55.225	1.00	78.05	OS15
ATOM	47811	CA	GLN	O	71	130.950	99.630	-54.979	1.00	78.05	OS15
ATOM	47812	CB	GLN	O	71	131.879	98.420	-54.941	1.00	105.70	OS15
ATOM	47813	CG	GLN	O	71	131.193	97.117	-54.654	1.00	105.70	OS15
ATOM	47814	CD	GLN	O	71	131.529	96.624	-53.281	1.00	105.70	OS15
ATOM	47815	OE1	GLN	O	71	131.227	97.281	-52.286	1.00	105.70	OS15
ATOM	47816	NE2	GLN	O	71	132.176	95.467	-53.210	1.00	105.70	OS15
ATOM	47817	C	GLN	O	71	130.148	99.737	-53.688	1.00	78.05	OS15
ATOM	47818	O	GLN	O	71	129.266	98.926	-53.431	1.00	78.05	OS15
ATOM	47819	N	ARG	O	72	130.455	100.743	-52.878	1.00	79.46	OS15
ATOM	47820	CA	ARG	O	72	129.737	100.953	-51.628	1.00	79.46	OS15
ATOM	47821	CB	ARG	O	72	130.680	101.515	-50.561	1.00	98.24	OS15
ATOM	47822	CG	ARG	O	72	129.979	102.030	-49.311	1.00	98.24	OS15
ATOM	47823	CD	ARG	O	72	130.865	101.845	-48.099	1.00	98.24	OS15
ATOM	47824	NE	ARG	O	72	132.224	102.327	-48.329	1.00	98.24	OS15
ATOM	47825	CZ	ARG	O	72	132.578	103.608	-48.314	1.00	98.24	OS15
ATOM	47826	NH1	ARG	O	72	131.669	104.552	-48.078	1.00	98.24	OS15
ATOM	47827	NH2	ARG	O	72	133.844	103.944	-48.528	1.00	98.24	OS15
ATOM	47828	C	ARG	O	72	128.544	101.889	-51.812	1.00	79.46	OS15
ATOM	47829	O	ARG	O	72	127.468	101.624	-51.280	1.00	79.46	OS15
ATOM	47830	N	GLU	O	73	128.734	102.976	-52.563	1.00	91.77	OS15
ATOM	47831	CA	GLU	O	73	127.669	103.952	-52.813	1.00	91.77	OS15
ATOM	47832	CB	GLU	O	73	128.251	105.279	-53.297	1.00	127.28	OS15
ATOM	47833	CG	GLU	O	73	128.979	106.031	-52.222	1.00	127.28	OS15
ATOM	47834	CD	GLU	O	73	128.203	106.037	-50.924	1.00	127.28	OS15
ATOM	47835	OE1	GLU	O	73	127.005	106.396	-50.958	1.00	127.28	OS15
ATOM	47836	OE2	GLU	O	73	128.784	105.682	-49.873	1.00	127.28	OS15
ATOM	47837	C	GLU	O	73	126.644	103.473	-53.827	1.00	91.77	OS15
ATOM	47838	O	GLU	O	73	125.443	103.442	-53.550	1.00	91.77	OS15
ATOM	47839	N	ASP	O	74	127.122	103.109	-55.006	1.00	79.52	OS15
ATOM	47840	CA	ASP	O	74	126.247	102.637	-56.058	1.00	79.52	OS15
ATOM	47841	CB	ASP	O	74	126.215	103.658	-57.195	1.00	125.74	OS15
ATOM	47842	CG	ASP	O	74	125.229	103.288	-58.282	1.00	125.74	OS15
ATOM	47843	OD1	ASP	O	74	125.132	102.087	-58.625	1.00	125.74	OS15
ATOM	47844	OD2	ASP	O	74	124.558	104.203	-58.804	1.00	125.74	OS15
ATOM	47845	C	ASP	O	74	126.795	101.313	-56.571	1.00	79.52	OS15
ATOM	47846	O	ASP	O	74	127.673	101.302	-57.429	1.00	79.52	OS15
ATOM	47847	N	PRO	O	75	126.291	100.177	-56.060	1.00	68.95	OS15
ATOM	47848	CD	PRO	O	75	125.107	99.983	-55.207	1.00	94.45	OS15
ATOM	47849	CA	PRO	O	75	126.800	98.884	-56.534	1.00	68.95	OS15
ATOM	47850	CB	PRO	O	75	125.981	97.874	-55.740	1.00	94.45	OS15
ATOM	47851	CG	PRO	O	75	124.677	98.578	-55.585	1.00	94.45	OS15
ATOM	47852	C	PRO	O	75	126.636	98.719	-58.043	1.00	68.95	OS15
ATOM	47853	O	PRO	O	75	127.358	97.942	-58.676	1.00	68.95	OS15
ATOM	47854	N	GLU	O	76	125.704	99.467	-58.625	1.00	102.44	OS15
ATOM	47855	CA	GLU	O	76	125.496	99.363	-60.056	1.00	102.44	OS15
ATOM	47856	CB	GLU	O	76	124.125	99.910	-60.448	1.00	162.03	OS15
ATOM	47857	CG	GLU	O	76	123.788	99.599	-61.893	1.00	162.03	OS15
ATOM	47858	CD	GLU	O	76	124.332	98.243	-62.324	1.00	162.03	OS15
ATOM	47859	OE1	GLU	O	76	124.027	97.237	-61.645	1.00	162.03	OS15
ATOM	47860	OE2	GLU	O	76	125.067	98.185	-63.335	1.00	162.03	OS15
ATOM	47861	C	GLU	O	76	126.591	100.051	-60.874	1.00	102.44	OS15
ATOM	47862	O	GLU	O	76	127.265	99.394	-61.674	1.00	102.44	OS15
ATOM	47863	N	ARG	O	77	126.773	101.360	-60.684	1.00	95.77	OS15
ATOM	47864	CA	ARG	O	77	127.811	102.085	-61.419	1.00	95.77	OS15
ATOM	47865	CB	ARG	O	77	128.043	103.482	-60.828	1.00	88.80	OS15
ATOM	47866	CG	ARG	O	77	126.980	104.522	-61.177	1.00	88.80	OS15
ATOM	47867	CD	ARG	O	77	127.487	105.955	-60.976	1.00	88.80	OS15
ATOM	47868	NE	ARG	O	77	127.757	106.267	-59.576	1.00	88.80	OS15
ATOM	47869	CZ	ARG	O	77	128.332	107.391	-59.150	1.00	88.80	OS15
ATOM	47870	NH1	ARG	O	77	128.707	108.321	-60.018	1.00	88.80	OS15
ATOM	47871	NH2	ARG	O	77	128.529	107.594	-57.849	1.00	88.80	OS15
ATOM	47872	C	ARG	O	77	129.108	101.288	-61.345	1.00	95.77	OS15

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ATOM	47873	O	ARG	O	77	129.929	101.326	-62.263	1.00	95.77	OS15
ATOM	47874	N	TYR	O	78	129.272	100.562	-60.240	1.00	80.99	OS15
ATOM	47875	CA	TYR	O	78	130.444	99.731	-59.997	1.00	80.99	OS15
ATOM	47876	CB	TYR	O	78	130.355	99.125	-58.602	1.00	83.51	OS15
ATOM	47877	CG	TYR	O	78	131.528	98.259	-58.228	1.00	83.51	OS15
ATOM	47878	CD1	TYR	O	78	132.807	98.796	-58.115	1.00	83.51	OS15
ATOM	47879	CE1	TYR	O	78	133.893	97.998	-57.749	1.00	83.51	OS15
ATOM	47880	CD2	TYR	O	78	131.358	96.902	-57.971	1.00	83.51	OS15
ATOM	47881	CE2	TYR	O	78	132.429	96.096	-57.605	1.00	83.51	OS15
ATOM	47882	CZ	TYR	O	78	133.694	96.647	-57.493	1.00	83.51	OS15
ATOM	47883	OH	TYR	O	78	134.756	95.846	-57.119	1.00	83.51	OS15
ATOM	47884	C	TYR	O	78	130.569	98.622	-61.032	1.00	80.99	OS15
ATOM	47885	O	TYR	O	78	131.464	98.658	-61.874	1.00	80.99	OS15
ATOM	47886	N	ARG	O	79	129.679	97.634	-60.969	1.00	100.87	OS15
ATOM	47887	CA	ARG	O	79	129.715	96.530	-61.923	1.00	100.87	OS15
ATOM	47888	CB	ARG	O	79	128.448	95.694	-61.807	1.00	160.40	OS15
ATOM	47889	CG	ARG	O	79	128.317	95.046	-60.456	1.00	160.40	OS15
ATOM	47890	CD	ARG	O	79	126.870	94.909	-60.053	1.00	160.40	OS15
ATOM	47891	NE	ARG	O	79	126.747	94.662	-58.620	1.00	160.40	OS15
ATOM	47892	CZ	ARG	O	79	125.599	94.700	-57.953	1.00	160.40	OS15
ATOM	47893	NH1	ARG	O	79	124.468	94.976	-58.590	1.00	160.40	OS15
ATOM	47894	NH2	ARG	O	79	125.584	94.469	-56.647	1.00	160.40	OS15
ATOM	47895	C	ARG	O	79	129.846	97.098	-63.326	1.00	100.87	OS15
ATOM	47896	O	ARG	O	79	130.481	96.508	-64.197	1.00	100.87	OS15
ATOM	47897	N	ALA	O	80	129.247	98.262	-63.531	1.00	96.17	OS15
ATOM	47898	CA	ALA	O	80	129.310	98.931	-64.817	1.00	96.17	OS15
ATOM	47899	CB	ALA	O	80	128.471	100.195	-64.773	1.00	86.08	OS15
ATOM	47900	C	ALA	O	80	130.759	99.288	-65.139	1.00	96.17	OS15
ATOM	47901	O	ALA	O	80	131.291	98.931	-66.195	1.00	96.17	OS15
ATOM	47902	N	LEU	O	81	131.386	99.993	-64.205	1.00	81.97	OS15
ATOM	47903	CA	LEU	O	81	132.763	100.452	-64.345	1.00	81.97	OS15
ATOM	47904	CB	LEU	O	81	133.135	101.308	-63.132	1.00	71.50	OS15
ATOM	47905	CG	LEU	O	81	134.188	102.390	-63.361	1.00	71.50	OS15
ATOM	47906	CD1	LEU	O	81	134.415	103.160	-62.068	1.00	71.50	OS15
ATOM	47907	CD2	LEU	O	81	135.472	101.768	-63.844	1.00	71.50	OS15
ATOM	47908	C	LEU	O	81	133.783	99.331	-64.503	1.00	81.97	OS15
ATOM	47909	O	LEU	O	81	134.695	99.420	-65.328	1.00	81.97	OS15
ATOM	47910	N	ILE	O	82	133.633	98.284	-63.701	1.00	90.08	OS15
ATOM	47911	CA	ILE	O	82	134.559	97.160	-63.743	1.00	90.08	OS15
ATOM	47912	CB	ILE	O	82	134.254	96.138	-62.628	1.00	97.08	OS15
ATOM	47913	CG2	ILE	O	82	134.912	94.796	-62.944	1.00	97.08	OS15
ATOM	47914	CG1	ILE	O	82	134.739	96.689	-61.288	1.00	97.08	OS15
ATOM	47915	CD1	ILE	O	82	134.782	95.663	-60.207	1.00	97.08	OS15
ATOM	47916	C	ILE	O	82	134.555	96.447	-65.081	1.00	90.08	OS15
ATOM	47917	O	ILE	O	82	135.570	96.426	-65.774	1.00	90.08	OS15
ATOM	47918	N	GLU	O	83	133.416	95.855	-65.428	1.00	118.83	OS15
ATOM	47919	CA	GLU	O	83	133.271	95.139	-66.688	1.00	118.83	OS15
ATOM	47920	CB	GLU	O	83	131.791	94.826	-66.941	1.00	192.37	OS15
ATOM	47921	CG	GLU	O	83	131.473	94.239	-68.313	1.00	192.37	OS15
ATOM	47922	CD	GLU	O	83	130.933	95.275	-69.288	1.00	192.37	OS15
ATOM	47923	OE1	GLU	O	83	131.652	96.249	-69.595	1.00	192.37	OS15
ATOM	47924	OE2	GLU	O	83	129.782	95.113	-69.748	1.00	192.37	OS15
ATOM	47925	C	GLU	O	83	133.837	95.991	-67.816	1.00	118.83	OS15
ATOM	47926	O	GLU	O	83	134.505	95.487	-68.721	1.00	118.83	OS15
ATOM	47927	N	LYS	O	84	133.577	97.292	-67.737	1.00	89.22	OS15
ATOM	47928	CA	LYS	O	84	134.045	98.240	-68.737	1.00	89.22	OS15
ATOM	47929	CB	LYS	O	84	133.394	99.599	-68.475	1.00	83.41	OS15
ATOM	47930	CG	LYS	O	84	133.446	100.550	-69.640	1.00	83.41	OS15
ATOM	47931	CD	LYS	O	84	132.619	101.790	-69.352	1.00	83.41	OS15
ATOM	47932	CE	LYS	O	84	132.821	102.844	-70.433	1.00	83.41	OS15
ATOM	47933	NZ	LYS	O	84	132.198	104.155	-70.091	1.00	83.41	OS15
ATOM	47934	C	LYS	O	84	135.579	98.345	-68.708	1.00	89.22	OS15
ATOM	47935	O	LYS	O	84	136.265	97.726	-69.527	1.00	89.22	OS15
ATOM	47936	N	LEU	O	85	136.117	99.111	-67.762	1.00	93.41	OS15
ATOM	47937	CA	LEU	O	85	137.565	99.266	-67.652	1.00	93.41	OS15
ATOM	47938	CB	LEU	O	85	137.951	99.854	-66.294	1.00	73.72	OS15
ATOM	47939	CG	LEU	O	85	137.917	101.374	-66.083	1.00	73.72	OS15
ATOM	47940	CD1	LEU	O	85	138.566	101.690	-64.748	1.00	73.72	OS15
ATOM	47941	CD2	LEU	O	85	138.675	102.107	-67.176	1.00	73.72	OS15
ATOM	47942	C	LEU	O	85	138.329	97.961	-67.840	1.00	93.41	OS15
ATOM	47943	O	LEU	O	85	139.405	97.953	-68.428	1.00	93.41	OS15
ATOM	47944	N	GLY	O	86	137.779	96.864	-67.328	1.00	125.93	OS15
ATOM	47945	CA	GLY	O	86	138.448	95.578	-67.441	1.00	125.93	OS15
ATOM	47946	C	GLY	O	86	139.278	95.271	-66.201	1.00	125.93	OS15
ATOM	47947	O	GLY	O	86	140.388	94.744	-66.298	1.00	125.93	OS15
ATOM	47948	N	ILE	O	87	138.728	95.603	-65.034	1.00	109.91	OS15
ATOM	47949	CA	ILE	O	87	139.385	95.392	-63.742	1.00	109.91	OS15

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ATOM	47950	CB	ILE	O	87	139.129	96.606	-62.812	1.00	94.63	OS15
ATOM	47951	CG2	ILE	O	87	139.390	96.236	-61.352	1.00	94.63	OS15
ATOM	47952	CG1	ILE	O	87	139.993	97.783	-63.280	1.00	94.63	OS15
ATOM	47953	CD1	ILE	O	87	139.703	99.097	-62.586	1.00	94.63	OS15
ATOM	47954	C	ILE	O	87	138.925	94.104	-63.054	1.00	109.91	OS15
ATOM	47955	O	ILE	O	87	137.883	93.544	-63.408	1.00	109.91	OS15
ATOM	47956	N	ARG	O	88	139.713	93.652	-62.075	1.00	198.39	OS15
ATOM	47957	CA	ARG	O	88	139.462	92.425	-61.316	1.00	198.39	OS15
ATOM	47958	CB	ARG	O	88	137.969	92.093	-61.284	1.00	161.47	OS15
ATOM	47959	CG	ARG	O	88	137.123	93.067	-60.490	1.00	161.47	OS15
ATOM	47960	CD	ARG	O	88	136.974	92.599	-59.057	1.00	161.47	OS15
ATOM	47961	NE	ARG	O	88	135.637	92.887	-58.539	1.00	161.47	OS15
ATOM	47962	CZ	ARG	O	88	135.124	92.345	-57.436	1.00	161.47	OS15
ATOM	47963	NH1	ARG	O	88	135.836	91.480	-56.723	1.00	161.47	OS15
ATOM	47964	NH2	ARG	O	88	133.893	92.663	-57.049	1.00	161.47	OS15
ATOM	47965	C	ARG	O	88	140.238	91.288	-61.987	1.00	198.39	OS15
ATOM	47966	O	ARG	O	88	141.458	91.202	-61.848	1.00	198.39	OS15
ATOM	47967	N	GLY	O	89	139.533	90.421	-62.711	1.00	198.84	OS15
ATOM	47968	CA	GLY	O	89	140.188	89.324	-63.408	1.00	198.84	OS15
ATOM	47969	C	GLY	O	89	140.760	88.210	-62.548	1.00	198.84	OS15
ATOM	47970	O	GLY	O	89	140.358	87.045	-62.749	1.00	198.84	OS15
ATOM	47971	OXT	GLY	O	89	141.620	88.485	-61.685	1.00	128.24	OS15
TER	47971	GLY	O	89							OS15
ATOM	47972	CB	MET	P	1	108.879	66.553	3.974	1.00	107.66	PS16
ATOM	47973	CG	MET	P	1	107.695	67.068	4.755	1.00	107.66	PS16
ATOM	47974	SD	MET	P	1	107.348	65.999	6.146	1.00	107.66	PS16
ATOM	47975	CE	MET	P	1	108.520	66.650	7.363	1.00	107.66	PS16
ATOM	47976	C	MET	P	1	109.711	68.867	3.784	1.00	90.71	PS16
ATOM	47977	O	MET	P	1	110.285	68.845	4.874	1.00	90.71	PS16
ATOM	47978	N	MET	P	1	110.721	67.064	2.411	1.00	90.71	PS16
ATOM	47979	CA	MET	P	1	109.461	67.580	3.018	1.00	90.71	PS16
ATOM	47980	N	VAL	P	2	109.260	69.982	3.216	1.00	72.30	PS16
ATOM	47981	CA	VAL	P	2	109.438	71.295	3.826	1.00	72.30	PS16
ATOM	47982	CB	VAL	P	2	108.742	72.372	2.987	1.00	75.95	PS16
ATOM	47983	CG1	VAL	P	2	107.340	71.906	2.609	1.00	75.95	PS16
ATOM	47984	CG2	VAL	P	2	108.682	73.672	3.770	1.00	75.95	PS16
ATOM	47985	C	VAL	P	2	108.902	71.356	5.254	1.00	72.30	PS16
ATOM	47986	O	VAL	P	2	107.792	70.919	5.520	1.00	72.30	PS16
ATOM	47987	N	LYS	P	3	109.690	71.910	6.166	1.00	74.62	PS16
ATOM	47988	CA	LYS	P	3	109.275	72.012	7.556	1.00	74.62	PS16
ATOM	47989	CB	LYS	P	3	110.050	71.005	8.400	1.00	66.71	PS16
ATOM	47990	CG	LYS	P	3	109.846	69.564	7.967	1.00	66.71	PS16
ATOM	47991	CD	LYS	P	3	110.704	68.591	8.772	1.00	66.71	PS16
ATOM	47992	CE	LYS	P	3	110.246	68.470	10.218	1.00	66.71	PS16
ATOM	47993	NZ	LYS	P	3	111.080	67.482	10.968	1.00	66.71	PS16
ATOM	47994	C	LYS	P	3	109.499	73.414	8.110	1.00	74.62	PS16
ATOM	47995	O	LYS	P	3	110.091	74.266	7.450	1.00	74.62	PS16
ATOM	47996	N	ILE	P	4	108.998	73.655	9.318	1.00	72.58	PS16
ATOM	47997	CA	ILE	P	4	109.151	74.940	10.003	1.00	72.58	PS16
ATOM	47998	CB	ILE	P	4	107.797	75.512	10.468	1.00	64.48	PS16
ATOM	47999	CG2	ILE	P	4	108.008	76.749	11.307	1.00	64.48	PS16
ATOM	48000	CG1	ILE	P	4	106.913	75.832	9.271	1.00	64.48	PS16
ATOM	48001	CD1	ILE	P	4	105.513	76.261	9.678	1.00	64.48	PS16
ATOM	48002	C	ILE	P	4	109.911	74.520	11.239	1.00	72.58	PS16
ATOM	48003	O	ILE	P	4	109.412	73.706	12.006	1.00	72.58	PS16
ATOM	48004	N	ARG	P	5	111.106	75.047	11.449	1.00	67.20	PS16
ATOM	48005	CA	ARG	P	5	111.857	74.626	12.617	1.00	67.20	PS16
ATOM	48006	CB	ARG	P	5	112.577	73.318	12.329	1.00	70.34	PS16
ATOM	48007	CG	ARG	P	5	113.761	73.484	11.422	1.00	70.34	PS16
ATOM	48008	CD	ARG	P	5	114.306	72.147	11.003	1.00	70.34	PS16
ATOM	48009	NE	ARG	P	5	115.516	72.291	10.201	1.00	70.34	PS16
ATOM	48010	CZ	ARG	P	5	115.887	71.447	9.240	1.00	70.34	PS16
ATOM	48011	NH1	ARG	P	5	115.143	70.384	8.953	1.00	70.34	PS16
ATOM	48012	NH2	ARG	P	5	116.999	71.678	8.554	1.00	70.34	PS16
ATOM	48013	C	ARG	P	5	112.875	75.651	13.013	1.00	67.20	PS16
ATOM	48014	O	ARG	P	5	113.053	76.655	12.328	1.00	67.20	PS16
ATOM	48015	N	LEU	P	6	113.559	75.371	14.115	1.00	58.18	PS16
ATOM	48016	CA	LEU	P	6	114.588	76.258	14.639	1.00	58.18	PS16
ATOM	48017	CB	LEU	P	6	114.690	76.084	16.156	1.00	63.76	PS16
ATOM	48018	CG	LEU	P	6	113.620	76.794	16.988	1.00	63.76	PS16
ATOM	48019	CD1	LEU	P	6	112.235	76.373	16.536	1.00	63.76	PS16
ATOM	48020	CD2	LEU	P	6	113.834	76.485	18.454	1.00	63.76	PS16
ATOM	48021	C	LEU	P	6	115.965	76.041	14.002	1.00	58.18	PS16
ATOM	48022	O	LEU	P	6	116.305	74.937	13.569	1.00	58.18	PS16
ATOM	48023	N	ALA	P	7	116.753	77.108	13.945	1.00	58.94	PS16
ATOM	48024	CA	ALA	P	7	118.093	77.036	13.379	1.00	58.94	PS16
ATOM	48025	CB	ALA	P	7	118.136	77.751	12.033	1.00	30.60	PS16

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ATOM	48026	C	ALA	P	7	119.010	77.724	14.371	1.00	58.94	PS16
ATOM	48027	O	ALA	P	7	118.787	78.879	14.718	1.00	58.94	PS16
ATOM	48028	N	ARG	P	8	120.028	77.014	14.840	1.00	78.47	PS16
ATOM	48029	CA	ARG	P	8	120.960	77.581	15.806	1.00	78.47	PS16
ATOM	48030	CB	ARG	P	8	122.023	76.559	16.185	1.00	76.20	PS16
ATOM	48031	CG	ARG	P	8	121.892	76.013	17.585	1.00	76.20	PS16
ATOM	48032	CD	ARG	P	8	122.625	76.874	18.574	1.00	76.20	PS16
ATOM	48033	NE	ARG	P	8	122.736	76.192	19.859	1.00	76.20	PS16
ATOM	48034	CZ	ARG	P	8	123.668	76.466	20.767	1.00	76.20	PS16
ATOM	48035	NH1	ARG	P	8	124.569	77.414	20.525	1.00	76.20	PS16
ATOM	48036	NH2	ARG	P	8	123.712	75.783	21.906	1.00	76.20	PS16
ATOM	48037	C	ARG	P	8	121.637	78.811	15.245	1.00	78.47	PS16
ATOM	48038	O	ARG	P	8	122.111	78.800	14.108	1.00	78.47	PS16
ATOM	48039	N	PHE	P	9	121.686	79.868	16.054	1.00	61.83	PS16
ATOM	48040	CA	PHE	P	9	122.307	81.119	15.644	1.00	61.83	PS16
ATOM	48041	CB	PHE	P	9	121.288	82.012	14.948	1.00	69.46	PS16
ATOM	48042	CG	PHE	P	9	121.343	81.935	13.457	1.00	69.46	PS16
ATOM	48043	CD1	PHE	P	9	122.390	82.518	12.764	1.00	69.46	PS16
ATOM	48044	CD2	PHE	P	9	120.358	81.259	12.746	1.00	69.46	PS16
ATOM	48045	CE1	PHE	P	9	122.455	82.433	11.383	1.00	69.46	PS16
ATOM	48046	CE2	PHE	P	9	120.413	81.167	11.360	1.00	69.46	PS16
ATOM	48047	CZ	PHE	P	9	121.461	81.752	10.678	1.00	69.46	PS16
ATOM	48048	C	PHE	P	9	122.947	81.891	16.772	1.00	61.83	PS16
ATOM	48049	O	PHE	P	9	123.669	82.842	16.525	1.00	61.83	PS16
ATOM	48050	N	GLY	P	10	122.697	81.492	18.008	1.00	64.22	PS16
ATOM	48051	CA	GLY	P	10	123.292	82.223	19.113	1.00	64.22	PS16
ATOM	48052	C	GLY	P	10	124.817	82.205	19.104	1.00	64.22	PS16
ATOM	48053	O	GLY	P	10	125.460	82.859	18.284	1.00	64.22	PS16
ATOM	48054	N	SER	P	11	125.387	81.452	20.040	1.00	70.83	PS16
ATOM	48055	CA	SER	P	11	126.828	81.280	20.179	1.00	70.83	PS16
ATOM	48056	CB	SER	P	11	127.550	82.621	20.309	1.00	69.93	PS16
ATOM	48057	OG	SER	P	11	127.325	83.218	21.573	1.00	69.93	PS16
ATOM	48058	C	SER	P	11	127.006	80.465	21.442	1.00	70.83	PS16
ATOM	48059	O	SER	P	11	126.050	80.253	22.190	1.00	70.83	PS16
ATOM	48060	N	LYS	P	12	128.224	80.009	21.686	1.00	81.32	PS16
ATOM	48061	CA	LYS	P	12	128.470	79.187	22.854	1.00	81.32	PS16
ATOM	48062	CB	LYS	P	12	129.962	79.095	23.129	1.00	88.26	PS16
ATOM	48063	CG	LYS	P	12	130.434	77.683	23.387	1.00	88.26	PS16
ATOM	48064	CD	LYS	P	12	131.877	77.712	23.805	1.00	88.26	PS16
ATOM	48065	CE	LYS	P	12	132.447	76.327	23.948	1.00	88.26	PS16
ATOM	48066	NZ	LYS	P	12	133.775	76.393	24.638	1.00	88.26	PS16
ATOM	48067	C	LYS	P	12	127.743	79.687	24.094	1.00	81.32	PS16
ATOM	48068	O	LYS	P	12	127.939	80.816	24.546	1.00	81.32	PS16
ATOM	48069	N	HIS	P	13	126.893	78.821	24.630	1.00	96.86	PS16
ATOM	48070	CA	HIS	P	13	126.116	79.117	25.818	1.00	96.86	PS16
ATOM	48071	CB	HIS	P	13	127.033	79.420	26.993	1.00	87.77	PS16
ATOM	48072	CG	HIS	P	13	127.858	78.250	27.413	1.00	87.77	PS16
ATOM	48073	CD2	HIS	P	13	129.186	78.129	27.649	1.00	87.77	PS16
ATOM	48074	ND1	HIS	P	13	127.314	77.001	27.625	1.00	87.77	PS16
ATOM	48075	CE1	HIS	P	13	128.273	76.160	27.973	1.00	87.77	PS16
ATOM	48076	NE2	HIS	P	13	129.419	76.819	27.996	1.00	87.77	PS16
ATOM	48077	C	HIS	P	13	125.148	80.253	25.634	1.00	96.86	PS16
ATOM	48078	O	HIS	P	13	124.370	80.536	26.533	1.00	96.86	PS16
ATOM	48079	N	ASN	P	14	125.191	80.907	24.479	1.00	60.43	PS16
ATOM	48080	CA	ASN	P	14	124.277	82.017	24.211	1.00	60.43	PS16
ATOM	48081	CB	ASN	P	14	125.035	83.348	24.117	1.00	98.10	PS16
ATOM	48082	CG	ASN	P	14	124.123	84.510	23.771	1.00	98.10	PS16
ATOM	48083	OD1	ASN	P	14	123.045	84.649	24.349	1.00	98.10	PS16
ATOM	48084	ND2	ASN	P	14	124.550	85.352	22.829	1.00	98.10	PS16
ATOM	48085	C	ASN	P	14	123.541	81.751	22.910	1.00	60.43	PS16
ATOM	48086	O	ASN	P	14	123.730	82.451	21.917	1.00	60.43	PS16
ATOM	48087	N	PRO	P	15	122.676	80.733	22.909	1.00	66.52	PS16
ATOM	48088	CD	PRO	P	15	122.409	79.863	24.068	1.00	71.39	PS16
ATOM	48089	CA	PRO	P	15	121.879	80.318	21.751	1.00	66.52	PS16
ATOM	48090	CB	PRO	P	15	121.445	78.917	22.137	1.00	71.39	PS16
ATOM	48091	CG	PRO	P	15	121.198	79.088	23.610	1.00	71.39	PS16
ATOM	48092	C	PRO	P	15	120.679	81.195	21.437	1.00	66.52	PS16
ATOM	48093	O	PRO	P	15	119.972	81.623	22.345	1.00	66.52	PS16
ATOM	48094	N	HIS	P	16	120.468	81.446	20.144	1.00	52.84	PS16
ATOM	48095	CA	HIS	P	16	119.337	82.227	19.627	1.00	52.84	PS16
ATOM	48096	CB	HIS	P	16	119.760	83.635	19.196	1.00	67.57	PS16
ATOM	48097	CG	HIS	P	16	119.967	84.576	20.338	1.00	67.57	PS16
ATOM	48098	CD2	HIS	P	16	119.291	85.688	20.710	1.00	67.57	PS16
ATOM	48099	ND1	HIS	P	16	120.970	84.408	21.271	1.00	67.57	PS16
ATOM	48100	CE1	HIS	P	16	120.903	85.376	22.166	1.00	67.57	PS16
ATOM	48101	NE2	HIS	P	16	119.893	86.168	21.849	1.00	67.57	PS16
ATOM	48102	C	HIS	P	16	118.880	81.454	18.411	1.00	52.84	PS16

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ATOM	48103	O	HIS	P	16	119.702	81.142	17.556	1.00	52.84	PS16
ATOM	48104	N	TYR	P	17	117.592	81.135	18.318	1.00	53.91	PS16
ATOM	48105	CA	TYR	P	17	117.116	80.356	17.171	1.00	53.91	PS16
ATOM	48106	CB	TYR	P	17	116.205	79.206	17.624	1.00	82.44	PS16
ATOM	48107	CG	TYR	P	17	116.890	78.191	18.489	1.00	82.44	PS16
ATOM	48108	CD1	TYR	P	17	117.194	78.472	19.818	1.00	82.44	PS16
ATOM	48109	CE1	TYR	P	17	117.903	77.570	20.603	1.00	82.44	PS16
ATOM	48110	CD2	TYR	P	17	117.299	76.979	17.962	1.00	82.44	PS16
ATOM	48111	CE2	TYR	P	17	118.006	76.068	18.732	1.00	82.44	PS16
ATOM	48112	CZ	TYR	P	17	118.313	76.368	20.053	1.00	82.44	PS16
ATOM	48113	OH	TYR	P	17	119.064	75.479	20.801	1.00	82.44	PS16
ATOM	48114	C	TYR	P	17	116.370	81.192	16.163	1.00	53.91	PS16
ATOM	48115	O	TYR	P	17	115.959	82.304	16.467	1.00	53.91	PS16
ATOM	48116	N	ARG	P	18	116.201	80.642	14.965	1.00	67.68	PS16
ATOM	48117	CA	ARG	P	18	115.468	81.322	13.908	1.00	67.68	PS16
ATOM	48118	CB	ARG	P	18	116.385	81.684	12.748	1.00	70.92	PS16
ATOM	48119	CG	ARG	P	18	117.341	82.786	13.052	1.00	70.92	PS16
ATOM	48120	CD	ARG	P	18	117.948	83.350	11.775	1.00	70.92	PS16
ATOM	48121	NE	ARG	P	18	118.900	84.417	12.069	1.00	70.92	PS16
ATOM	48122	CZ	ARG	P	18	119.541	85.125	11.151	1.00	70.92	PS16
ATOM	48123	NH1	ARG	P	18	119.340	84.885	9.868	1.00	70.92	PS16
ATOM	48124	NH2	ARG	P	18	120.381	86.073	11.522	1.00	70.92	PS16
ATOM	48125	C	ARG	P	18	114.348	80.449	13.370	1.00	67.68	PS16
ATOM	48126	O	ARG	P	18	114.588	79.577	12.543	1.00	67.68	PS16
ATOM	48127	N	ILE	P	19	113.129	80.668	13.844	1.00	61.46	PS16
ATOM	48128	CA	ILE	P	19	111.995	79.902	13.343	1.00	61.46	PS16
ATOM	48129	CB	ILE	P	19	110.686	80.395	13.957	1.00	53.33	PS16
ATOM	48130	CG2	ILE	P	19	109.500	79.855	13.178	1.00	53.33	PS16
ATOM	48131	CG1	ILE	P	19	110.651	79.989	15.431	1.00	53.33	PS16
ATOM	48132	CD1	ILE	P	19	110.386	81.137	16.366	1.00	53.33	PS16
ATOM	48133	C	ILE	P	19	111.996	80.157	11.846	1.00	61.46	PS16
ATOM	48134	O	ILE	P	19	111.912	81.308	11.404	1.00	61.46	PS16
ATOM	48135	N	VAL	P	20	112.082	79.086	11.067	1.00	61.47	PS16
ATOM	48136	CA	VAL	P	20	112.175	79.248	9.634	1.00	61.47	PS16
ATOM	48137	CB	VAL	P	20	113.630	79.540	9.269	1.00	67.39	PS16
ATOM	48138	CG1	VAL	P	20	114.516	78.369	9.702	1.00	67.39	PS16
ATOM	48139	CG2	VAL	P	20	113.751	79.780	7.783	1.00	67.39	PS16
ATOM	48140	C	VAL	P	20	111.731	78.048	8.820	1.00	61.47	PS16
ATOM	48141	O	VAL	P	20	111.876	76.911	9.265	1.00	61.47	PS16
ATOM	48142	N	VAL	P	21	111.206	78.316	7.621	1.00	54.89	PS16
ATOM	48143	CA	VAL	P	21	110.775	77.273	6.688	1.00	54.89	PS16
ATOM	48144	CB	VAL	P	21	109.862	77.831	5.593	1.00	61.32	PS16
ATOM	48145	CG1	VAL	P	21	109.510	76.748	4.591	1.00	61.32	PS16
ATOM	48146	CG2	VAL	P	21	108.617	78.384	6.218	1.00	61.32	PS16
ATOM	48147	C	VAL	P	21	112.046	76.785	6.020	1.00	54.89	PS16
ATOM	48148	O	VAL	P	21	113.024	77.526	5.967	1.00	54.89	PS16
ATOM	48149	N	THR	P	22	112.039	75.556	5.509	1.00	73.62	PS16
ATOM	48150	CA	THR	P	22	113.217	74.978	4.859	1.00	73.62	PS16
ATOM	48151	CB	THR	P	22	114.430	74.938	5.810	1.00	57.25	PS16
ATOM	48152	OG1	THR	P	22	115.569	74.452	5.094	1.00	57.25	PS16
ATOM	48153	CG2	THR	P	22	114.165	74.017	6.996	1.00	57.25	PS16
ATOM	48154	C	THR	P	22	112.916	73.548	4.472	1.00	73.62	PS16
ATOM	48155	O	THR	P	22	111.942	72.975	4.952	1.00	73.62	PS16
ATOM	48156	N	ASP	P	23	113.729	72.961	3.602	1.00	69.01	PS16
ATOM	48157	CA	ASP	P	23	113.477	71.573	3.251	1.00	69.01	PS16
ATOM	48158	CB	ASP	P	23	114.189	71.175	1.966	1.00	74.48	PS16
ATOM	48159	CG	ASP	P	23	113.945	69.722	1.607	1.00	74.48	PS16
ATOM	48160	OD1	ASP	P	23	114.505	68.835	2.290	1.00	74.48	PS16
ATOM	48161	OD2	ASP	P	23	113.180	69.457	0.657	1.00	74.48	PS16
ATOM	48162	C	ASP	P	23	113.997	70.741	4.419	1.00	69.01	PS16
ATOM	48163	O	ASP	P	23	114.935	71.154	5.102	1.00	69.01	PS16
ATOM	48164	N	ALA	P	24	113.384	69.582	4.654	1.00	73.65	PS16
ATOM	48165	CA	ALA	P	24	113.773	68.713	5.762	1.00	73.65	PS16
ATOM	48166	CB	ALA	P	24	112.881	67.479	5.785	1.00	127.54	PS16
ATOM	48167	C	ALA	P	24	115.235	68.294	5.688	1.00	73.65	PS16
ATOM	48168	O	ALA	P	24	115.914	68.137	6.702	1.00	73.65	PS16
ATOM	48169	N	ARG	P	25	115.740	68.162	4.477	1.00	69.62	PS16
ATOM	48170	CA	ARG	P	25	117.099	67.705	4.300	1.00	69.62	PS16
ATOM	48171	CB	ARG	P	25	117.147	67.017	2.938	1.00	64.05	PS16
ATOM	48172	CG	ARG	P	25	115.985	66.038	2.810	1.00	64.05	PS16
ATOM	48173	CD	ARG	P	25	115.677	65.616	1.392	1.00	64.05	PS16
ATOM	48174	NE	ARG	P	25	115.120	66.708	0.601	1.00	64.05	PS16
ATOM	48175	CZ	ARG	P	25	114.661	66.570	-0.640	1.00	64.05	PS16
ATOM	48176	NH1	ARG	P	25	114.690	65.374	-1.224	1.00	64.05	PS16
ATOM	48177	NH2	ARG	P	25	114.191	67.628	-1.304	1.00	64.05	PS16
ATOM	48178	C	ARG	P	25	118.294	68.664	4.514	1.00	69.62	PS16
ATOM	48179	O	ARG	P	25	119.419	68.190	4.647	1.00	69.62	PS16

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ATOM	48180	N	ARG	P	26	118.086	69.982	4.565	1.00	60.60	PS16
ATOM	48181	CA	ARG	P	26	119.214	70.912	4.778	1.00	60.60	PS16
ATOM	48182	CB	ARG	P	26	118.747	72.369	4.725	1.00	70.46	PS16
ATOM	48183	CG	ARG	P	26	118.650	72.983	3.344	1.00	70.46	PS16
ATOM	48184	CD	ARG	P	26	119.948	73.659	2.901	1.00	70.46	PS16
ATOM	48185	NE	ARG	P	26	119.785	74.356	1.621	1.00	70.46	PS16
ATOM	48186	CZ	ARG	P	26	119.467	73.761	0.470	1.00	70.46	PS16
ATOM	48187	NH1	ARG	P	26	119.278	72.449	0.427	1.00	70.46	PS16
ATOM	48188	NH2	ARG	P	26	119.327	74.472	-0.647	1.00	70.46	PS16
ATOM	48189	C	ARG	P	26	119.874	70.697	6.138	1.00	60.60	PS16
ATOM	48190	O	ARG	P	26	119.324	69.996	6.992	1.00	60.60	PS16
ATOM	48191	N	LYS	P	27	121.057	71.287	6.334	1.00	58.90	PS16
ATOM	48192	CA	LYS	P	27	121.741	71.208	7.631	1.00	58.90	PS16
ATOM	48193	CB	LYS	P	27	123.120	71.864	7.585	1.00	78.68	PS16
ATOM	48194	CG	LYS	P	27	123.947	71.519	6.370	1.00	78.68	PS16
ATOM	48195	CD	LYS	P	27	125.248	72.313	6.372	1.00	78.68	PS16
ATOM	48196	CE	LYS	P	27	126.040	72.054	5.099	1.00	78.68	PS16
ATOM	48197	NZ	LYS	P	27	125.197	72.252	3.875	1.00	78.68	PS16
ATOM	48198	C	LYS	P	27	120.831	72.088	8.467	1.00	58.90	PS16
ATOM	48199	O	LYS	P	27	120.017	72.819	7.910	1.00	58.90	PS16
ATOM	48200	N	ARG	P	28	120.944	72.066	9.783	1.00	84.33	PS16
ATOM	48201	CA	ARG	P	28	120.029	72.919	10.506	1.00	84.33	PS16
ATOM	48202	CB	ARG	P	28	119.911	72.514	11.971	1.00	60.34	PS16
ATOM	48203	CG	ARG	P	28	121.096	72.783	12.852	1.00	60.34	PS16
ATOM	48204	CD	ARG	P	28	120.585	72.767	14.281	1.00	60.34	PS16
ATOM	48205	NE	ARG	P	28	121.600	72.422	15.267	1.00	60.34	PS16
ATOM	48206	CZ	ARG	P	28	122.727	73.099	15.446	1.00	60.34	PS16
ATOM	48207	NH1	ARG	P	28	122.973	74.164	14.690	1.00	60.34	PS16
ATOM	48208	NH2	ARG	P	28	123.599	72.718	16.378	1.00	60.34	PS16
ATOM	48209	C	ARG	P	28	120.424	74.374	10.388	1.00	84.33	PS16
ATOM	48210	O	ARG	P	28	119.599	75.264	10.589	1.00	84.33	PS16
ATOM	48211	N	ASP	P	29	121.676	74.630	10.035	1.00	49.33	PS16
ATOM	48212	CA	ASP	P	29	122.117	76.019	9.905	1.00	49.33	PS16
ATOM	48213	CB	ASP	P	29	123.377	76.228	10.751	1.00	83.20	PS16
ATOM	48214	CG	ASP	P	29	123.151	75.892	12.229	1.00	83.20	PS16
ATOM	48215	OD1	ASP	P	29	124.095	76.055	13.034	1.00	83.20	PS16
ATOM	48216	OD2	ASP	P	29	122.028	75.467	12.586	1.00	83.20	PS16
ATOM	48217	C	ASP	P	29	122.346	76.427	8.439	1.00	49.33	PS16
ATOM	48218	O	ASP	P	29	122.859	77.513	8.135	1.00	49.33	PS16
ATOM	48219	N	GLY	P	30	121.922	75.546	7.540	1.00	68.27	PS16
ATOM	48220	CA	GLY	P	30	122.083	75.783	6.120	1.00	68.27	PS16
ATOM	48221	C	GLY	P	30	121.083	76.766	5.566	1.00	68.27	PS16
ATOM	48222	O	GLY	P	30	120.312	77.369	6.322	1.00	68.27	PS16
ATOM	48223	N	LYS	P	31	121.097	76.915	4.238	1.00	77.68	PS16
ATOM	48224	CA	LYS	P	31	120.208	77.839	3.538	1.00	77.68	PS16
ATOM	48225	CB	LYS	P	31	120.475	77.826	2.032	1.00	90.41	PS16
ATOM	48226	CG	LYS	P	31	119.559	78.782	1.276	1.00	90.41	PS16
ATOM	48227	CD	LYS	P	31	120.014	79.056	-0.151	1.00	90.41	PS16
ATOM	48228	CE	LYS	P	31	119.809	77.855	-1.052	1.00	90.41	PS16
ATOM	48229	NZ	LYS	P	31	120.201	78.162	-2.460	1.00	90.41	PS16
ATOM	48230	C	LYS	P	31	118.750	77.520	3.775	1.00	77.68	PS16
ATOM	48231	O	LYS	P	31	118.261	76.459	3.393	1.00	77.68	PS16
ATOM	48232	N	TYR	P	32	118.051	78.458	4.398	1.00	65.10	PS16
ATOM	48233	CA	TYR	P	32	116.645	78.270	4.682	1.00	65.10	PS16
ATOM	48234	CB	TYR	P	32	116.373	78.657	6.128	1.00	72.53	PS16
ATOM	48235	CG	TYR	P	32	116.793	80.051	6.505	1.00	72.53	PS16
ATOM	48236	CD1	TYR	P	32	117.650	80.273	7.581	1.00	72.53	PS16
ATOM	48237	CE1	TYR	P	32	117.947	81.568	8.018	1.00	72.53	PS16
ATOM	48238	CD2	TYR	P	32	116.252	81.155	5.861	1.00	72.53	PS16
ATOM	48239	CE2	TYR	P	32	116.540	82.450	6.284	1.00	72.53	PS16
ATOM	48240	CZ	TYR	P	32	117.381	82.653	7.365	1.00	72.53	PS16
ATOM	48241	OH	TYR	P	32	117.600	83.941	7.803	1.00	72.53	PS16
ATOM	48242	C	TYR	P	32	115.751	79.054	3.724	1.00	65.10	PS16
ATOM	48243	O	TYR	P	32	116.141	80.096	3.202	1.00	65.10	PS16
ATOM	48244	N	ILE	P	33	114.549	78.538	3.506	1.00	65.47	PS16
ATOM	48245	CA	ILE	P	33	113.575	79.132	2.594	1.00	65.47	PS16
ATOM	48246	CB	ILE	P	33	112.386	78.208	2.402	1.00	65.02	PS16
ATOM	48247	CG2	ILE	P	33	111.419	78.826	1.434	1.00	65.02	PS16
ATOM	48248	CG1	ILE	P	33	112.881	76.854	1.901	1.00	65.02	PS16
ATOM	48249	CD1	ILE	P	33	111.795	75.838	1.636	1.00	65.02	PS16
ATOM	48250	C	ILE	P	33	113.010	80.494	2.953	1.00	65.47	PS16
ATOM	48251	O	ILE	P	33	112.698	81.284	2.062	1.00	65.47	PS16
ATOM	48252	N	GLU	P	34	112.854	80.765	4.243	1.00	62.78	PS16
ATOM	48253	CA	GLU	P	34	112.304	82.040	4.671	1.00	62.78	PS16
ATOM	48254	CB	GLU	P	34	110.891	82.234	4.119	1.00	87.54	PS16
ATOM	48255	CG	GLU	P	34	110.213	83.526	4.585	1.00	87.54	PS16
ATOM	48256	CD	GLU	P	34	108.731	83.600	4.209	1.00	87.54	PS16

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ATOM	48257	OE1	GLU	P	34	108.377	83.249	3.058	1.00	87.54	PS16
ATOM	48258	OE2	GLU	P	34	107.923	84.023	5.066	1.00	87.54	PS16
ATOM	48259	C	GLU	P	34	112.225	82.092	6.168	1.00	62.78	PS16
ATOM	48260	O	GLU	P	34	111.576	81.249	6.771	1.00	62.78	PS16
ATOM	48261	N	LYS	P	35	112.880	83.080	6.769	1.00	77.92	PS16
ATOM	48262	CA	LYS	P	35	112.845	83.250	8.215	1.00	77.92	PS16
ATOM	48263	CB	LYS	P	35	113.874	84.291	8.645	1.00	72.56	PS16
ATOM	48264	CG	LYS	P	35	113.910	84.612	10.135	1.00	72.56	PS16
ATOM	48265	CD	LYS	P	35	115.066	85.595	10.430	1.00	72.56	PS16
ATOM	48266	CE	LYS	P	35	115.298	85.862	11.927	1.00	72.56	PS16
ATOM	48267	NZ	LYS	P	35	116.515	86.719	12.175	1.00	72.56	PS16
ATOM	48268	C	LYS	P	35	111.452	83.756	8.521	1.00	77.92	PS16
ATOM	48269	O	LYS	P	35	110.968	84.675	7.865	1.00	77.92	PS16
ATOM	48270	N	ILE	P	36	110.783	83.142	9.484	1.00	64.77	PS16
ATOM	48271	CA	ILE	P	36	109.451	83.606	9.836	1.00	64.77	PS16
ATOM	48272	CB	ILE	P	36	108.352	82.614	9.466	1.00	40.92	PS16
ATOM	48273	CG2	ILE	P	36	108.241	82.499	7.967	1.00	40.92	PS16
ATOM	48274	CG1	ILE	P	36	108.641	81.267	10.116	1.00	40.92	PS16
ATOM	48275	CD1	ILE	P	36	107.435	80.359	10.155	1.00	40.92	PS16
ATOM	48276	C	ILE	P	36	109.375	83.826	11.321	1.00	64.77	PS16
ATOM	48277	O	ILE	P	36	108.312	83.725	11.901	1.00	64.77	PS16
ATOM	48278	N	GLY	P	37	110.505	84.115	11.946	1.00	70.58	PS16
ATOM	48279	CA	GLY	P	37	110.470	84.354	13.371	1.00	70.58	PS16
ATOM	48280	C	GLY	P	37	111.721	83.934	14.093	1.00	70.58	PS16
ATOM	48281	O	GLY	P	37	112.479	83.093	13.612	1.00	70.58	PS16
ATOM	48282	N	TYR	P	38	111.936	84.538	15.253	1.00	74.95	PS16
ATOM	48283	CA	TYR	P	38	113.094	84.218	16.058	1.00	74.95	PS16
ATOM	48284	CB	TYR	P	38	114.057	85.407	16.117	1.00	86.09	PS16
ATOM	48285	CG	TYR	P	38	113.464	86.696	16.622	1.00	86.09	PS16
ATOM	48286	CD1	TYR	P	38	113.246	86.904	17.982	1.00	86.09	PS16
ATOM	48287	CE1	TYR	P	38	112.720	88.104	18.449	1.00	86.09	PS16
ATOM	48288	CD2	TYR	P	38	113.137	87.722	15.738	1.00	86.09	PS16
ATOM	48289	CE2	TYR	P	38	112.611	88.924	16.191	1.00	86.09	PS16
ATOM	48290	CZ	TYR	P	38	112.405	89.107	17.546	1.00	86.09	PS16
ATOM	48291	OH	TYR	P	38	111.874	90.289	17.993	1.00	86.09	PS16
ATOM	48292	C	TYR	P	38	112.655	83.803	17.448	1.00	74.95	PS16
ATOM	48293	O	TYR	P	38	111.480	83.927	17.803	1.00	74.95	PS16
ATOM	48294	N	TYR	P	39	113.606	83.314	18.234	1.00	59.20	PS16
ATOM	48295	CA	TYR	P	39	113.312	82.839	19.573	1.00	59.20	PS16
ATOM	48296	CB	TYR	P	39	112.680	81.442	19.469	1.00	77.05	PS16
ATOM	48297	CG	TYR	P	39	112.688	80.626	20.739	1.00	77.05	PS16
ATOM	48298	CD1	TYR	P	39	112.404	81.215	21.972	1.00	77.05	PS16
ATOM	48299	CE1	TYR	P	39	112.380	80.468	23.139	1.00	77.05	PS16
ATOM	48300	CD2	TYR	P	39	112.947	79.260	20.705	1.00	77.05	PS16
ATOM	48301	CE2	TYR	P	39	112.920	78.503	21.864	1.00	77.05	PS16
ATOM	48302	CZ	TYR	P	39	112.636	79.117	23.077	1.00	77.05	PS16
ATOM	48303	OH	TYR	P	39	112.600	78.387	24.233	1.00	77.05	PS16
ATOM	48304	C	TYR	P	39	114.565	82.796	20.436	1.00	59.20	PS16
ATOM	48305	O	TYR	P	39	115.555	82.136	20.076	1.00	59.20	PS16
ATOM	48306	N	ASP	P	40	114.509	83.507	21.568	1.00	71.62	PS16
ATOM	48307	CA	ASP	P	40	115.608	83.577	22.537	1.00	71.62	PS16
ATOM	48308	CB	ASP	P	40	115.798	85.012	23.012	1.00	100.09	PS16
ATOM	48309	CG	ASP	P	40	116.787	85.115	24.154	1.00	100.09	PS16
ATOM	48310	OD1	ASP	P	40	116.970	86.237	24.688	1.00	100.09	PS16
ATOM	48311	OD2	ASP	P	40	117.378	84.068	24.510	1.00	100.09	PS16
ATOM	48312	C	ASP	P	40	115.281	82.704	23.747	1.00	71.62	PS16
ATOM	48313	O	ASP	P	40	114.743	83.194	24.738	1.00	71.62	PS16
ATOM	48314	N	PRO	P	41	115.624	81.406	23.689	1.00	76.65	PS16
ATOM	48315	CD	PRO	P	41	116.492	80.802	22.665	1.00	134.59	PS16
ATOM	48316	CA	PRO	P	41	115.369	80.444	24.760	1.00	76.65	PS16
ATOM	48317	CB	PRO	P	41	116.342	79.314	24.446	1.00	134.59	PS16
ATOM	48318	CG	PRO	P	41	116.380	79.327	22.982	1.00	134.59	PS16
ATOM	48319	C	PRO	P	41	115.583	80.989	26.157	1.00	76.65	PS16
ATOM	48320	O	PRO	P	41	115.012	80.478	27.116	1.00	76.65	PS16
ATOM	48321	N	ARG	P	42	116.385	82.033	26.295	1.00	65.81	PS16
ATOM	48322	CA	ARG	P	42	116.641	82.538	27.632	1.00	65.81	PS16
ATOM	48323	CB	ARG	P	42	118.145	82.621	27.835	1.00	81.60	PS16
ATOM	48324	CG	ARG	P	42	118.844	81.371	27.351	1.00	81.60	PS16
ATOM	48325	CD	ARG	P	42	120.249	81.335	27.849	1.00	81.60	PS16
ATOM	48326	NE	ARG	P	42	121.005	82.472	27.354	1.00	81.60	PS16
ATOM	48327	CZ	ARG	P	42	122.186	82.831	27.837	1.00	81.60	PS16
ATOM	48328	NH1	ARG	P	42	122.733	82.132	28.832	1.00	81.60	PS16
ATOM	48329	NH2	ARG	P	42	122.820	83.881	27.326	1.00	81.60	PS16
ATOM	48330	C	ARG	P	42	115.979	83.852	28.016	1.00	65.81	PS16
ATOM	48331	O	ARG	P	42	116.311	84.439	29.044	1.00	65.81	PS16
ATOM	48332	N	LYS	P	43	115.031	84.299	27.203	1.00	101.59	PS16
ATOM	48333	CA	LYS	P	43	114.330	85.548	27.464	1.00	101.59	PS16

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ATOM	48334	CB	LYS	P	43	113.160	85.317	28.420	1.00	82.27	PS16
ATOM	48335	CG	LYS	P	43	112.276	84.133	28.088	1.00	82.27	PS16
ATOM	48336	CD	LYS	P	43	112.838	82.845	28.640	1.00	82.27	PS16
ATOM	48337	CE	LYS	P	43	111.820	81.716	28.547	1.00	82.27	PS16
ATOM	48338	NZ	LYS	P	43	112.328	80.524	29.296	1.00	82.27	PS16
ATOM	48339	C	LYS	P	43	115.258	86.589	28.084	1.00	101.59	PS16
ATOM	48340	O	LYS	P	43	114.956	87.121	29.152	1.00	101.59	PS16
ATOM	48341	N	THR	P	44	116.389	86.868	27.435	1.00	92.88	PS16
ATOM	48342	CA	THR	P	44	117.332	87.863	27.950	1.00	92.88	PS16
ATOM	48343	CB	THR	P	44	118.762	87.662	27.387	1.00	112.79	PS16
ATOM	48344	OG1	THR	P	44	118.735	87.688	25.953	1.00	112.79	PS16
ATOM	48345	CG2	THR	P	44	119.337	86.345	27.871	1.00	112.79	PS16
ATOM	48346	C	THR	P	44	116.856	89.257	27.573	1.00	92.88	PS16
ATOM	48347	O	THR	P	44	117.558	90.248	27.780	1.00	92.88	PS16
ATOM	48348	N	THR	P	45	115.652	89.312	27.016	1.00	83.08	PS16
ATOM	48349	CA	THR	P	45	115.032	90.559	26.594	1.00	83.08	PS16
ATOM	48350	CB	THR	P	45	115.441	90.919	25.174	1.00	79.04	PS16
ATOM	48351	OG1	THR	P	45	115.298	89.762	24.340	1.00	79.04	PS16
ATOM	48352	CG2	THR	P	45	116.882	91.393	25.147	1.00	79.04	PS16
ATOM	48353	C	THR	P	45	113.515	90.425	26.634	1.00	83.08	PS16
ATOM	48354	O	THR	P	45	112.965	89.357	26.354	1.00	83.08	PS16
ATOM	48355	N	PRO	P	46	112.820	91.517	26.966	1.00	84.81	PS16
ATOM	48356	CD	PRO	P	46	113.350	92.887	26.901	1.00	124.99	PS16
ATOM	48357	CA	PRO	P	46	111.359	91.539	27.049	1.00	84.81	PS16
ATOM	48358	CB	PRO	P	46	111.051	93.023	27.184	1.00	124.99	PS16
ATOM	48359	CG	PRO	P	46	112.158	93.652	26.396	1.00	124.99	PS16
ATOM	48360	C	PRO	P	46	110.721	90.929	25.813	1.00	84.81	PS16
ATOM	48361	O	PRO	P	46	109.652	90.331	25.883	1.00	84.81	PS16
ATOM	48362	N	ASP	P	47	111.384	91.093	24.678	1.00	88.33	PS16
ATOM	48363	CA	ASP	P	47	110.895	90.548	23.426	1.00	88.33	PS16
ATOM	48364	CB	ASP	P	47	110.992	91.614	22.343	1.00	126.64	PS16
ATOM	48365	CG	ASP	P	47	110.894	91.040	20.947	1.00	126.64	PS16
ATOM	48366	OD1	ASP	P	47	110.995	91.830	19.988	1.00	126.64	PS16
ATOM	48367	OD2	ASP	P	47	110.718	89.810	20.800	1.00	126.64	PS16
ATOM	48368	C	ASP	P	47	111.769	89.353	23.064	1.00	88.33	PS16
ATOM	48369	O	ASP	P	47	112.888	89.537	22.594	1.00	88.33	PS16
ATOM	48370	N	TRP	P	48	111.269	88.134	23.268	1.00	74.00	PS16
ATOM	48371	CA	TRP	P	48	112.061	86.938	22.965	1.00	74.00	PS16
ATOM	48372	CB	TRP	P	48	112.540	86.259	24.247	1.00	93.72	PS16
ATOM	48373	CG	TRP	P	48	111.448	86.061	25.231	1.00	93.72	PS16
ATOM	48374	CD2	TRP	P	48	110.721	84.855	25.479	1.00	93.72	PS16
ATOM	48375	CE2	TRP	P	48	109.775	85.137	26.485	1.00	93.72	PS16
ATOM	48376	CE3	TRP	P	48	110.779	83.561	24.954	1.00	93.72	PS16
ATOM	48377	CD1	TRP	P	48	110.926	87.000	26.068	1.00	93.72	PS16
ATOM	48378	NE1	TRP	P	48	109.921	86.455	26.826	1.00	93.72	PS16
ATOM	48379	CZ2	TRP	P	48	108.894	84.171	26.977	1.00	93.72	PS16
ATOM	48380	CZ3	TRP	P	48	109.900	82.600	25.447	1.00	93.72	PS16
ATOM	48381	CH2	TRP	P	48	108.973	82.913	26.447	1.00	93.72	PS16
ATOM	48382	C	TRP	P	48	111.351	85.905	22.123	1.00	74.00	PS16
ATOM	48383	O	TRP	P	48	111.603	84.713	22.270	1.00	74.00	PS16
ATOM	48384	N	LEU	P	49	110.467	86.362	21.243	1.00	63.50	PS16
ATOM	48385	CA	LEU	P	49	109.742	85.467	20.348	1.00	63.50	PS16
ATOM	48386	CB	LEU	P	49	109.043	84.358	21.134	1.00	61.43	PS16
ATOM	48387	CG	LEU	P	49	108.208	83.452	20.228	1.00	61.43	PS16
ATOM	48388	CD1	LEU	P	49	109.120	82.643	19.334	1.00	61.43	PS16
ATOM	48389	CD2	LEU	P	49	107.353	82.540	21.070	1.00	61.43	PS16
ATOM	48390	C	LEU	P	49	108.707	86.159	19.472	1.00	63.50	PS16
ATOM	48391	O	LEU	P	49	107.550	86.277	19.842	1.00	63.50	PS16
ATOM	48392	N	LYS	P	50	109.130	86.637	18.316	1.00	59.90	PS16
ATOM	48393	CA	LYS	P	50	108.203	87.260	17.380	1.00	59.90	PS16
ATOM	48394	CB	LYS	P	50	108.905	88.373	16.590	1.00	155.87	PS16
ATOM	48395	CG	LYS	P	50	108.391	88.573	15.161	1.00	155.87	PS16
ATOM	48396	CD	LYS	P	50	109.219	89.613	14.408	1.00	155.87	PS16
ATOM	48397	CE	LYS	P	50	108.963	89.561	12.905	1.00	155.87	PS16
ATOM	48398	NZ	LYS	P	50	109.439	88.283	12.294	1.00	155.87	PS16
ATOM	48399	C	LYS	P	50	107.863	86.095	16.460	1.00	59.90	PS16
ATOM	48400	O	LYS	P	50	108.590	85.094	16.448	1.00	59.90	PS16
ATOM	48401	N	VAL	P	51	106.773	86.179	15.711	1.00	70.93	PS16
ATOM	48402	CA	VAL	P	51	106.497	85.073	14.830	1.00	70.93	PS16
ATOM	48403	CB	VAL	P	51	105.570	84.038	15.470	1.00	59.30	PS16
ATOM	48404	CG1	VAL	P	51	105.087	83.047	14.423	1.00	59.30	PS16
ATOM	48405	CG2	VAL	P	51	106.331	83.276	16.540	1.00	59.30	PS16
ATOM	48406	C	VAL	P	51	105.946	85.447	13.493	1.00	70.93	PS16
ATOM	48407	O	VAL	P	51	106.314	84.836	12.500	1.00	70.93	PS16
ATOM	48408	N	ASP	P	52	105.086	86.449	13.423	1.00	80.09	PS16
ATOM	48409	CA	ASP	P	52	104.523	86.794	12.115	1.00	80.09	PS16
ATOM	48410	CB	ASP	P	52	105.635	87.022	11.074	1.00	133.32	PS16

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ATOM	48411	CG	ASP	P	52	105.134	86.923	9.638	1.00133.32	PS16
ATOM	48412	OD1	ASP	P	52	104.286	87.738	9.210	1.00133.32	PS16
ATOM	48413	OD2	ASP	P	52	105.602	86.009	8.937	1.00133.32	PS16
ATOM	48414	C	ASP	P	52	103.635	85.621	11.709	1.00 80.09	PS16
ATOM	48415	O	ASP	P	52	103.872	84.906	10.715	1.00 80.09	PS16
ATOM	48416	N	VAL	P	53	102.616	85.433	12.537	1.00 95.21	PS16
ATOM	48417	CA	VAL	P	53	101.632	84.390	12.358	1.00 95.21	PS16
ATOM	48418	CB	VAL	P	53	100.551	84.530	13.423	1.00 60.40	PS16
ATOM	48419	CG1	VAL	P	53	101.207	84.856	14.774	1.00 60.40	PS16
ATOM	48420	CG2	VAL	P	53	99.590	85.622	13.032	1.00 60.40	PS16
ATOM	48421	C	VAL	P	53	101.037	84.552	10.963	1.00 95.21	PS16
ATOM	48422	O	VAL	P	53	100.494	83.614	10.388	1.00 95.21	PS16
ATOM	48423	N	GLU	P	54	101.145	85.760	10.427	1.00 94.78	PS16
ATOM	48424	CA	GLU	P	54	100.653	86.039	9.094	1.00 94.78	PS16
ATOM	48425	CB	GLU	P	54	101.109	87.436	8.656	1.00161.30	PS16
ATOM	48426	CG	GLU	P	54	101.113	87.652	7.151	1.00161.30	PS16
ATOM	48427	CD	GLU	P	54	99.810	87.233	6.503	1.00161.30	PS16
ATOM	48428	OE1	GLU	P	54	98.761	87.812	6.849	1.00161.30	PS16
ATOM	48429	OE2	GLU	P	54	99.834	86.320	5.650	1.00161.30	PS16
ATOM	48430	C	GLU	P	54	101.194	84.981	8.128	1.00 94.78	PS16
ATOM	48431	O	GLU	P	54	100.430	84.259	7.478	1.00 94.78	PS16
ATOM	48432	N	ARG	P	55	102.518	84.884	8.059	1.00106.41	PS16
ATOM	48433	CA	ARG	P	55	103.180	83.946	7.162	1.00106.41	PS16
ATOM	48434	CB	ARG	P	55	104.644	84.328	7.002	1.00 73.38	PS16
ATOM	48435	CG	ARG	P	55	104.875	85.625	6.266	1.00 73.38	PS16
ATOM	48436	CD	ARG	P	55	105.397	85.328	4.900	1.00 73.38	PS16
ATOM	48437	NE	ARG	P	55	104.351	84.908	3.977	1.00 73.38	PS16
ATOM	48438	CZ	ARG	P	55	104.599	84.239	2.857	1.00 73.38	PS16
ATOM	48439	NH1	ARG	P	55	105.854	83.920	2.562	1.00 73.38	PS16
ATOM	48440	NH2	ARG	P	55	103.614	83.921	2.019	1.00 73.38	PS16
ATOM	48441	C	ARG	P	55	103.100	82.498	7.599	1.00106.41	PS16
ATOM	48442	O	ARG	P	55	102.825	81.615	6.780	1.00106.41	PS16
ATOM	48443	N	ALA	P	56	103.370	82.247	8.875	1.00 75.08	PS16
ATOM	48444	CA	ALA	P	56	103.307	80.886	9.379	1.00 75.08	PS16
ATOM	48445	CB	ALA	P	56	103.121	80.891	10.873	1.00 40.14	PS16
ATOM	48446	C	ALA	P	56	102.135	80.176	8.711	1.00 75.08	PS16
ATOM	48447	O	ALA	P	56	102.321	79.206	7.972	1.00 75.08	PS16
ATOM	48448	N	ARG	P	57	100.931	80.681	8.953	1.00 77.05	PS16
ATOM	48449	CA	ARG	P	57	99.734	80.092	8.371	1.00 77.05	PS16
ATOM	48450	CB	ARG	P	57	98.554	81.058	8.477	1.00 85.98	PS16
ATOM	48451	CG	ARG	P	57	98.069	81.340	9.896	1.00 85.98	PS16
ATOM	48452	CD	ARG	P	57	96.899	82.336	9.862	1.00 85.98	PS16
ATOM	48453	NE	ARG	P	57	96.552	82.872	11.174	1.00 85.98	PS16
ATOM	48454	CZ	ARG	P	57	96.107	82.133	12.179	1.00 85.98	PS16
ATOM	48455	NH1	ARG	P	57	95.954	80.829	12.017	1.00 85.98	PS16
ATOM	48456	NH2	ARG	P	57	95.822	82.696	13.340	1.00 85.98	PS16
ATOM	48457	C	ARG	P	57	99.933	79.702	6.907	1.00 77.05	PS16
ATOM	48458	O	ARG	P	57	99.560	78.600	6.506	1.00 77.05	PS16
ATOM	48459	N	TYR	P	58	100.516	80.592	6.107	1.00 76.69	PS16
ATOM	48460	CA	TYR	P	58	100.723	80.278	4.701	1.00 76.69	PS16
ATOM	48461	CB	TYR	P	58	101.430	81.402	3.967	1.00 74.71	PS16
ATOM	48462	CG	TYR	P	58	101.941	80.939	2.617	1.00 74.71	PS16
ATOM	48463	CD1	TYR	P	58	103.314	80.811	2.366	1.00 74.71	PS16
ATOM	48464	CE1	TYR	P	58	103.790	80.332	1.127	1.00 74.71	PS16
ATOM	48465	CD2	TYR	P	58	101.053	80.577	1.601	1.00 74.71	PS16
ATOM	48466	CE2	TYR	P	58	101.514	80.097	0.364	1.00 74.71	PS16
ATOM	48467	CZ	TYR	P	58	102.878	79.977	0.136	1.00 74.71	PS16
ATOM	48468	OH	TYR	P	58	103.326	79.500	-1.077	1.00 74.71	PS16
ATOM	48469	C	TYR	P	58	101.529	79.013	4.476	1.00 76.69	PS16
ATOM	48470	O	TYR	P	58	101.151	78.171	3.665	1.00 76.69	PS16
ATOM	48471	N	TRP	P	59	102.661	78.883	5.158	1.00110.68	PS16
ATOM	48472	CA	TRP	P	59	103.469	77.688	4.965	1.00110.68	PS16
ATOM	48473	CB	TRP	P	59	104.808	77.805	5.701	1.00 69.36	PS16
ATOM	48474	CG	TRP	P	59	105.751	78.681	4.932	1.00 69.36	PS16
ATOM	48475	CD2	TRP	P	59	106.263	78.425	3.623	1.00 69.36	PS16
ATOM	48476	CE2	TRP	P	59	106.999	79.560	3.231	1.00 69.36	PS16
ATOM	48477	CE3	TRP	P	59	106.163	77.347	2.739	1.00 69.36	PS16
ATOM	48478	CD1	TRP	P	59	106.195	79.930	5.279	1.00 69.36	PS16
ATOM	48479	NE1	TRP	P	59	106.944	80.463	4.260	1.00 69.36	PS16
ATOM	48480	CZ2	TRP	P	59	107.630	79.648	1.995	1.00 69.36	PS16
ATOM	48481	CZ3	TRP	P	59	106.792	77.434	1.505	1.00 69.36	PS16
ATOM	48482	CH2	TRP	P	59	107.514	78.574	1.145	1.00 69.36	PS16
ATOM	48483	C	TRP	P	59	102.695	76.460	5.394	1.00110.68	PS16
ATOM	48484	O	TRP	P	59	102.641	75.469	4.661	1.00110.68	PS16
ATOM	48485	N	LEU	P	60	102.081	76.522	6.570	1.00 67.14	PS16
ATOM	48486	CA	LEU	P	60	101.274	75.399	7.029	1.00 67.14	PS16
ATOM	48487	CB	LEU	P	60	100.622	75.737	8.360	1.00 51.44	PS16

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ATOM	48488	CG	LEU	P	60	101.633	75.912	9.481	1.00	51.44	PS16
ATOM	48489	CD1	LEU	P	60	100.926	76.514	10.670	1.00	51.44	PS16
ATOM	48490	CD2	LEU	P	60	102.278	74.567	9.833	1.00	51.44	PS16
ATOM	48491	C	LEU	P	60	100.202	75.163	5.960	1.00	67.14	PS16
ATOM	48492	O	LEU	P	60	99.821	74.026	5.653	1.00	67.14	PS16
ATOM	48493	N	SER	P	61	99.730	76.264	5.391	1.00	69.94	PS16
ATOM	48494	CA	SER	P	61	98.740	76.217	4.343	1.00	69.94	PS16
ATOM	48495	CB	SER	P	61	98.516	77.635	3.797	1.00	83.09	PS16
ATOM	48496	OG	SER	P	61	98.176	77.634	2.420	1.00	83.09	PS16
ATOM	48497	C	SER	P	61	99.209	75.275	3.234	1.00	69.94	PS16
ATOM	48498	O	SER	P	61	98.393	74.642	2.571	1.00	69.94	PS16
ATOM	48499	N	VAL	P	62	100.518	75.142	3.048	1.00	91.66	PS16
ATOM	48500	CA	VAL	P	62	101.006	74.283	1.978	1.00	91.66	PS16
ATOM	48501	CB	VAL	P	62	101.694	75.103	0.912	1.00	60.12	PS16
ATOM	48502	CG1	VAL	P	62	100.669	75.801	0.069	1.00	60.12	PS16
ATOM	48503	CG2	VAL	P	62	102.618	76.111	1.574	1.00	60.12	PS16
ATOM	48504	C	VAL	P	62	101.933	73.135	2.321	1.00	91.66	PS16
ATOM	48505	O	VAL	P	62	102.820	72.796	1.531	1.00	91.66	PS16
ATOM	48506	N	GLY	P	63	101.748	72.533	3.488	1.00	66.11	PS16
ATOM	48507	CA	GLY	P	63	102.582	71.397	3.825	1.00	66.11	PS16
ATOM	48508	C	GLY	P	63	103.745	71.640	4.753	1.00	66.11	PS16
ATOM	48509	O	GLY	P	63	104.498	70.719	5.041	1.00	66.11	PS16
ATOM	48510	N	ALA	P	64	103.935	72.870	5.199	1.00	71.83	PS16
ATOM	48511	CA	ALA	P	64	105.012	73.100	6.138	1.00	71.83	PS16
ATOM	48512	CB	ALA	P	64	105.026	74.547	6.594	1.00	127.73	PS16
ATOM	48513	C	ALA	P	64	104.631	72.173	7.296	1.00	71.83	PS16
ATOM	48514	O	ALA	P	64	103.471	72.128	7.719	1.00	71.83	PS16
ATOM	48515	N	GLN	P	65	105.595	71.410	7.784	1.00	84.35	PS16
ATOM	48516	CA	GLN	P	65	105.337	70.483	8.866	1.00	84.35	PS16
ATOM	48517	CB	GLN	P	65	105.602	69.065	8.405	1.00	78.49	PS16
ATOM	48518	CG	GLN	P	65	104.922	68.042	9.246	1.00	78.49	PS16
ATOM	48519	CD	GLN	P	65	103.439	68.030	9.008	1.00	78.49	PS16
ATOM	48520	OE1	GLN	P	65	102.977	67.725	7.900	1.00	78.49	PS16
ATOM	48521	NE2	GLN	P	65	102.671	68.367	10.046	1.00	78.49	PS16
ATOM	48522	C	GLN	P	65	106.286	70.834	9.985	1.00	84.35	PS16
ATOM	48523	O	GLN	P	65	107.464	70.491	9.942	1.00	84.35	PS16
ATOM	48524	N	PRO	P	66	105.781	71.528	11.005	1.00	68.31	PS16
ATOM	48525	CD	PRO	P	66	104.381	71.968	11.066	1.00	52.98	PS16
ATOM	48526	CA	PRO	P	66	106.520	71.981	12.191	1.00	68.31	PS16
ATOM	48527	CB	PRO	P	66	105.501	72.858	12.913	1.00	52.98	PS16
ATOM	48528	CG	PRO	P	66	104.200	72.196	12.549	1.00	52.98	PS16
ATOM	48529	C	PRO	P	66	107.108	70.938	13.135	1.00	68.31	PS16
ATOM	48530	O	PRO	P	66	106.487	69.907	13.404	1.00	68.31	PS16
ATOM	48531	N	THR	P	67	108.310	71.238	13.631	1.00	70.59	PS16
ATOM	48532	CA	THR	P	67	109.004	70.404	14.610	1.00	70.59	PS16
ATOM	48533	CB	THR	P	67	110.376	70.998	15.015	1.00	88.69	PS16
ATOM	48534	OG1	THR	P	67	111.295	70.887	13.927	1.00	88.69	PS16
ATOM	48535	CG2	THR	P	67	110.940	70.278	16.230	1.00	88.69	PS16
ATOM	48536	C	THR	P	67	108.112	70.534	15.830	1.00	70.59	PS16
ATOM	48537	O	THR	P	67	107.212	71.374	15.850	1.00	70.59	PS16
ATOM	48538	N	ASP	P	68	108.339	69.735	16.858	1.00	74.04	PS16
ATOM	48539	CA	ASP	P	68	107.490	69.912	18.008	1.00	74.04	PS16
ATOM	48540	CB	ASP	P	68	107.648	68.756	18.989	1.00	121.08	PS16
ATOM	48541	CG	ASP	P	68	106.890	67.515	18.529	1.00	121.08	PS16
ATOM	48542	OD1	ASP	P	68	105.937	67.672	17.728	1.00	121.08	PS16
ATOM	48543	OD2	ASP	P	68	107.230	66.393	18.966	1.00	121.08	PS16
ATOM	48544	C	ASP	P	68	107.802	71.261	18.636	1.00	74.04	PS16
ATOM	48545	O	ASP	P	68	106.917	72.117	18.725	1.00	74.04	PS16
ATOM	48546	N	THR	P	69	109.054	71.489	19.024	1.00	78.35	PS16
ATOM	48547	CA	THR	P	69	109.417	72.778	19.624	1.00	78.35	PS16
ATOM	48548	CB	THR	P	69	110.924	72.842	19.971	1.00	106.50	PS16
ATOM	48549	OG1	THR	P	69	111.226	71.831	20.940	1.00	106.50	PS16
ATOM	48550	CG2	THR	P	69	111.288	74.198	20.556	1.00	106.50	PS16
ATOM	48551	C	THR	P	69	109.056	73.952	18.707	1.00	78.35	PS16
ATOM	48552	O	THR	P	69	108.854	75.076	19.160	1.00	78.35	PS16
ATOM	48553	N	ALA	P	70	108.961	73.689	17.411	1.00	82.06	PS16
ATOM	48554	CA	ALA	P	70	108.606	74.743	16.478	1.00	82.06	PS16
ATOM	48555	CB	ALA	P	70	108.974	74.337	15.062	1.00	90.69	PS16
ATOM	48556	C	ALA	P	70	107.113	75.028	16.576	1.00	82.06	PS16
ATOM	48557	O	ALA	P	70	106.703	76.184	16.614	1.00	82.06	PS16
ATOM	48558	N	ARG	P	71	106.303	73.974	16.621	1.00	68.49	PS16
ATOM	48559	CA	ARG	P	71	104.852	74.135	16.716	1.00	68.49	PS16
ATOM	48560	CB	ARG	P	71	104.134	72.788	16.566	1.00	74.52	PS16
ATOM	48561	CG	ARG	P	71	102.639	72.905	16.758	1.00	74.52	PS16
ATOM	48562	CD	ARG	P	71	101.943	71.565	16.758	1.00	74.52	PS16
ATOM	48563	NE	ARG	P	71	101.479	71.175	15.429	1.00	74.52	PS16
ATOM	48564	CZ	ARG	P	71	102.048	70.225	14.689	1.00	74.52	PS16

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ATOM	48565	NH1	ARG	P	71	103.110	69.573	15.165	1.00	74.52	PS16
ATOM	48566	NH2	ARG	P	71	101.557	69.923	13.480	1.00	74.52	PS16
ATOM	48567	C	ARG	P	71	104.479	74.756	18.058	1.00	68.49	PS16
ATOM	48568	O	ARG	P	71	103.548	75.562	18.144	1.00	68.49	PS16
ATOM	48569	N	ARG	P	72	105.217	74.374	19.096	1.00	70.60	PS16
ATOM	48570	CA	ARG	P	72	104.986	74.881	20.442	1.00	70.60	PS16
ATOM	48571	CB	ARG	P	72	106.016	74.284	21.396	1.00	90.70	PS16
ATOM	48572	CG	ARG	P	72	106.159	75.026	22.703	1.00	90.70	PS16
ATOM	48573	CD	ARG	P	72	107.502	74.712	23.299	1.00	90.70	PS16
ATOM	48574	NE	ARG	P	72	107.974	75.783	24.165	1.00	90.70	PS16
ATOM	48575	CZ	ARG	P	72	109.239	75.918	24.553	1.00	90.70	PS16
ATOM	48576	NH1	ARG	P	72	110.155	75.039	24.143	1.00	90.70	PS16
ATOM	48577	NH2	ARG	P	72	109.590	76.933	25.343	1.00	90.70	PS16
ATOM	48578	C	ARG	P	72	105.078	76.406	20.479	1.00	70.60	PS16
ATOM	48579	O	ARG	P	72	104.243	77.078	21.094	1.00	70.60	PS16
ATOM	48580	N	LEU	P	73	106.110	76.941	19.830	1.00	69.68	PS16
ATOM	48581	CA	LEU	P	73	106.324	78.378	19.772	1.00	69.68	PS16
ATOM	48582	CB	LEU	P	73	107.711	78.702	19.212	1.00	89.99	PS16
ATOM	48583	CG	LEU	P	73	108.945	78.350	20.056	1.00	89.99	PS16
ATOM	48584	CD1	LEU	P	73	110.195	78.709	19.273	1.00	89.99	PS16
ATOM	48585	CD2	LEU	P	73	108.929	79.092	21.389	1.00	89.99	PS16
ATOM	48586	C	LEU	P	73	105.264	78.972	18.880	1.00	69.68	PS16
ATOM	48587	O	LEU	P	73	104.691	80.000	19.210	1.00	69.68	PS16
ATOM	48588	N	LEU	P	74	105.008	78.333	17.744	1.00	69.07	PS16
ATOM	48589	CA	LEU	P	74	103.985	78.827	16.842	1.00	69.07	PS16
ATOM	48590	CB	LEU	P	74	103.789	77.909	15.644	1.00	62.96	PS16
ATOM	48591	CG	LEU	P	74	104.892	77.766	14.615	1.00	62.96	PS16
ATOM	48592	CD1	LEU	P	74	104.250	77.513	13.254	1.00	62.96	PS16
ATOM	48593	CD2	LEU	P	74	105.722	79.025	14.582	1.00	62.96	PS16
ATOM	48594	C	LEU	P	74	102.670	78.898	17.590	1.00	69.07	PS16
ATOM	48595	O	LEU	P	74	101.930	79.879	17.476	1.00	69.07	PS16
ATOM	48596	N	ARG	P	75	102.364	77.849	18.345	1.00	81.69	PS16
ATOM	48597	CA	ARG	P	75	101.120	77.823	19.105	1.00	81.69	PS16
ATOM	48598	CB	ARG	P	75	101.047	76.562	19.961	1.00	97.41	PS16
ATOM	48599	CG	ARG	P	75	99.741	76.375	20.718	1.00	97.41	PS16
ATOM	48600	CD	ARG	P	75	99.708	74.994	21.377	1.00	97.41	PS16
ATOM	48601	NE	ARG	P	75	99.895	73.911	20.408	1.00	97.41	PS16
ATOM	48602	CZ	ARG	P	75	99.034	73.607	19.439	1.00	97.41	PS16
ATOM	48603	NH1	ARG	P	75	97.907	74.293	19.298	1.00	97.41	PS16
ATOM	48604	NH2	ARG	P	75	99.312	72.629	18.589	1.00	97.41	PS16
ATOM	48605	C	ARG	P	75	101.085	79.043	20.006	1.00	81.69	PS16
ATOM	48606	O	ARG	P	75	100.084	79.756	20.059	1.00	81.69	PS16
ATOM	48607	N	GLN	P	76	102.201	79.269	20.697	1.00	59.91	PS16
ATOM	48608	CA	GLN	P	76	102.365	80.384	21.623	1.00	59.91	PS16
ATOM	48609	CB	GLN	P	76	103.785	80.424	22.168	1.00	77.61	PS16
ATOM	48610	CG	GLN	P	76	103.861	80.232	23.655	1.00	77.61	PS16
ATOM	48611	CD	GLN	P	76	105.036	80.959	24.244	1.00	77.61	PS16
ATOM	48612	OE1	GLN	P	76	105.104	82.190	24.186	1.00	77.61	PS16
ATOM	48613	NE2	GLN	P	76	105.981	80.209	24.812	1.00	77.61	PS16
ATOM	48614	C	GLN	P	76	102.065	81.717	20.991	1.00	59.91	PS16
ATOM	48615	O	GLN	P	76	101.533	82.607	21.642	1.00	59.91	PS16
ATOM	48616	N	ALA	P	77	102.436	81.861	19.726	1.00	83.19	PS16
ATOM	48617	CA	ALA	P	77	102.185	83.094	18.997	1.00	83.19	PS16
ATOM	48618	CB	ALA	P	77	103.073	83.157	17.775	1.00	61.53	PS16
ATOM	48619	C	ALA	P	77	100.715	83.106	18.588	1.00	83.19	PS16
ATOM	48620	O	ALA	P	77	100.207	84.091	18.057	1.00	83.19	PS16
ATOM	48621	N	GLY	P	78	100.035	81.997	18.851	1.00	73.71	PS16
ATOM	48622	CA	GLY	P	78	98.634	81.898	18.511	1.00	73.71	PS16
ATOM	48623	C	GLY	P	78	98.487	81.600	17.041	1.00	73.71	PS16
ATOM	48624	O	GLY	P	78	97.498	81.975	16.418	1.00	73.71	PS16
ATOM	48625	N	VAL	P	79	99.489	80.940	16.477	1.00	84.39	PS16
ATOM	48626	CA	VAL	P	79	99.443	80.587	15.069	1.00	84.39	PS16
ATOM	48627	CB	VAL	P	79	100.703	79.817	14.634	1.00	74.45	PS16
ATOM	48628	CG1	VAL	P	79	100.558	79.355	13.196	1.00	74.45	PS16
ATOM	48629	CG2	VAL	P	79	101.923	80.696	14.783	1.00	74.45	PS16
ATOM	48630	C	VAL	P	79	98.247	79.682	14.840	1.00	84.39	PS16
ATOM	48631	O	VAL	P	79	97.668	79.680	13.758	1.00	84.39	PS16
ATOM	48632	N	PHE	P	80	97.867	78.928	15.869	1.00	89.18	PS16
ATOM	48633	CA	PHE	P	80	96.757	77.994	15.741	1.00	89.18	PS16
ATOM	48634	CB	PHE	P	80	97.150	76.639	16.302	1.00	75.70	PS16
ATOM	48635	CG	PHE	P	80	98.424	76.106	15.750	1.00	75.70	PS16
ATOM	48636	CD1	PHE	P	80	99.588	76.140	16.512	1.00	75.70	PS16
ATOM	48637	CD2	PHE	P	80	98.461	75.548	14.473	1.00	75.70	PS16
ATOM	48638	CE1	PHE	P	80	100.775	75.620	16.014	1.00	75.70	PS16
ATOM	48639	CE2	PHE	P	80	99.638	75.025	13.959	1.00	75.70	PS16
ATOM	48640	CZ	PHE	P	80	100.802	75.059	14.732	1.00	75.70	PS16
ATOM	48641	C	PHE	P	80	95.427	78.383	16.359	1.00	89.18	PS16

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ATOM	48642	O	PHE	P	80	94.428	77.712	16.107	1.00	89.18	PS16
ATOM	48643	N	ARG	P	81	95.401	79.428	17.184	1.00	96.43	PS16
ATOM	48644	CA	ARG	P	81	94.144	79.857	17.802	1.00	96.43	PS16
ATOM	48645	CB	ARG	P	81	94.367	81.072	18.699	1.00101.34		PS16
ATOM	48646	CG	ARG	P	81	93.082	81.735	19.118	1.00101.34		PS16
ATOM	48647	CD	ARG	P	81	93.332	83.027	19.864	1.00101.34		PS16
ATOM	48648	NE	ARG	P	81	93.607	82.815	21.282	1.00101.34		PS16
ATOM	48649	CZ	ARG	P	81	94.771	82.409	21.783	1.00101.34		PS16
ATOM	48650	NH1	ARG	P	81	95.802	82.163	20.979	1.00101.34		PS16
ATOM	48651	NH2	ARG	P	81	94.902	82.254	23.100	1.00101.34		PS16
ATOM	48652	C	ARG	P	81	93.163	80.210	16.691	1.00	96.43	PS16
ATOM	48653	O	ARG	P	81	93.418	81.110	15.887	1.00	96.43	PS16
ATOM	48654	N	GLN	P	82	92.040	79.502	16.646	1.00139.62		PS16
ATOM	48655	CA	GLN	P	82	91.054	79.729	15.599	1.00139.62		PS16
ATOM	48656	CB	GLN	P	82	90.702	78.395	14.940	1.00128.99		PS16
ATOM	48657	CG	GLN	P	82	90.250	77.313	15.906	1.00128.99		PS16
ATOM	48658	CD	GLN	P	82	90.243	75.935	15.262	1.00128.99		PS16
ATOM	48659	OE1	GLN	P	82	89.840	75.780	14.106	1.00128.99		PS16
ATOM	48660	NE2	GLN	P	82	90.682	74.924	16.009	1.00128.99		PS16
ATOM	48661	C	GLN	P	82	89.788	80.435	16.056	1.00139.62		PS16
ATOM	48662	O	GLN	P	82	88.800	80.473	15.321	1.00139.62		PS16
ATOM	48663	N	GLU	P	83	89.833	81.008	17.256	1.00140.20		PS16
ATOM	48664	CA	GLU	P	83	88.698	81.721	17.842	1.00140.20		PS16
ATOM	48665	CB	GLU	P	83	89.178	83.003	18.524	1.00171.49		PS16
ATOM	48666	CG	GLU	P	83	89.992	82.736	19.760	1.00171.49		PS16
ATOM	48667	CD	GLU	P	83	89.373	81.644	20.604	1.00171.49		PS16
ATOM	48668	OE1	GLU	P	83	88.192	81.792	20.983	1.00171.49		PS16
ATOM	48669	OE2	GLU	P	83	90.061	80.637	20.878	1.00171.49		PS16
ATOM	48670	C	GLU	P	83	87.551	82.058	16.898	1.00140.20		PS16
ATOM	48671	O	GLU	P	83	87.442	83.180	16.412	1.00140.20		PS16
ATOM	48672	N	ALA	P	84	86.695	81.076	16.644	1.00194.47		PS16
ATOM	48673	CA	ALA	P	84	85.545	81.276	15.776	1.00194.47		PS16
ATOM	48674	CB	ALA	P	84	85.428	80.134	14.772	1.00102.90		PS16
ATOM	48675	C	ALA	P	84	84.320	81.312	16.668	1.00194.47		PS16
ATOM	48676	O	ALA	P	84	83.195	81.431	16.184	1.00194.47		PS16
ATOM	48677	N	ARG	P	85	84.550	81.208	17.976	1.00147.28		PS16
ATOM	48678	CA	ARG	P	85	83.464	81.211	18.951	1.00147.28		PS16
ATOM	48679	CB	ARG	P	85	82.934	82.632	19.148	1.00190.52		PS16
ATOM	48680	CG	ARG	P	85	83.954	83.732	18.901	1.00190.52		PS16
ATOM	48681	CD	ARG	P	85	83.341	85.094	19.184	1.00190.52		PS16
ATOM	48682	NE	ARG	P	85	84.046	86.185	18.515	1.00190.52		PS16
ATOM	48683	CZ	ARG	P	85	84.079	86.356	17.196	1.00190.52		PS16
ATOM	48684	NH1	ARG	P	85	83.449	85.504	16.401	1.00190.52		PS16
ATOM	48685	NH2	ARG	P	85	84.733	87.385	16.670	1.00190.52		PS16
ATOM	48686	C	ARG	P	85	82.355	80.322	18.390	1.00147.28		PS16
ATOM	48687	O	ARG	P	85	81.165	80.624	18.522	1.00147.28		PS16
ATOM	48688	N	GLU	P	86	82.769	79.225	17.757	1.00198.84		PS16
ATOM	48689	CA	GLU	P	86	81.855	78.276	17.128	1.00198.84		PS16
ATOM	48690	CB	GLU	P	86	82.644	77.328	16.216	1.00166.25		PS16
ATOM	48691	CG	GLU	P	86	81.781	76.575	15.217	1.00166.25		PS16
ATOM	48692	CD	GLU	P	86	80.992	77.513	14.316	1.00166.25		PS16
ATOM	48693	OE1	GLU	P	86	81.623	78.358	13.645	1.00166.25		PS16
ATOM	48694	OE2	GLU	P	86	79.745	77.404	14.277	1.00166.25		PS16
ATOM	48695	C	GLU	P	86	81.015	77.461	18.112	1.00198.84		PS16
ATOM	48696	O	GLU	P	86	79.793	77.375	17.970	1.00198.84		PS16
ATOM	48697	N	GLY	P	87	81.672	76.863	19.103	1.00198.84		PS16
ATOM	48698	CA	GLY	P	87	80.965	76.059	20.088	1.00198.84		PS16
ATOM	48699	C	GLY	P	87	79.794	76.749	20.774	1.00198.84		PS16
ATOM	48700	O	GLY	P	87	78.634	76.517	20.421	1.00198.84		PS16
ATOM	48701	N	ALA	P	88	80.097	77.594	21.759	1.00198.84		PS16
ATOM	48702	CA	ALA	P	88	79.075	78.323	22.512	1.00198.84		PS16
ATOM	48703	CB	ALA	P	88	79.561	78.571	23.948	1.00113.11		PS16
ATOM	48704	C	ALA	P	88	78.711	79.651	21.848	1.00198.84		PS16
ATOM	48705	O	ALA	P	88	78.867	80.697	22.515	1.00198.84		PS16
ATOM	48706	OXT	ALA	P	88	78.272	79.633	20.676	1.00113.11		PS16
TER	48706		ALA	P	88						PS16
ATOM	48707	CB	PRO	Q	2	112.808	87.380	-21.809	1.00	83.81	QS17
ATOM	48708	CG	PRO	Q	2	112.778	87.976	-20.414	1.00	83.81	QS17
ATOM	48709	C	PRO	Q	2	113.623	85.129	-22.406	1.00	61.06	QS17
ATOM	48710	O	PRO	Q	2	114.828	85.339	-22.332	1.00	61.06	QS17
ATOM	48711	N	PRO	Q	2	113.035	85.684	-20.105	1.00	61.06	QS17
ATOM	48712	CD	PRO	Q	2	113.470	86.962	-19.519	1.00	83.81	QS17
ATOM	48713	CA	PRO	Q	2	112.670	85.893	-21.520	1.00	61.06	QS17
ATOM	48714	N	LYS	Q	3	113.103	84.241	-23.240	1.00	70.90	QS17
ATOM	48715	CA	LYS	Q	3	113.991	83.531	-24.135	1.00	70.90	QS17
ATOM	48716	CB	LYS	Q	3	113.196	82.680	-25.126	1.00	67.50	QS17
ATOM	48717	CG	LYS	Q	3	112.502	81.475	-24.511	1.00	67.50	QS17

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ATOM	48718	CD	LYS	Q	3	111.854	80.610	-25.594	1.00	67.50	QS17
ATOM	48719	CE	LYS	Q	3	111.208	79.350	-25.015	1.00	67.50	QS17
ATOM	48720	NZ	LYS	Q	3	110.115	79.619	-24.029	1.00	67.50	QS17
ATOM	48721	C	LYS	Q	3	114.786	84.624	-24.871	1.00	70.90	QS17
ATOM	48722	O	LYS	Q	3	114.208	85.476	-25.559	1.00	70.90	QS17
ATOM	48723	N	LYS	Q	4	116.106	84.606	-24.678	1.00	64.08	QS17
ATOM	48724	CA	LYS	Q	4	117.032	85.562	-25.281	1.00	64.08	QS17
ATOM	48725	CB	LYS	Q	4	118.466	85.147	-24.946	1.00	80.91	QS17
ATOM	48726	CG	LYS	Q	4	119.532	86.131	-25.376	1.00	80.91	QS17
ATOM	48727	CD	LYS	Q	4	119.368	87.439	-24.639	1.00	80.91	QS17
ATOM	48728	CE	LYS	Q	4	120.507	88.388	-24.913	1.00	80.91	QS17
ATOM	48729	NZ	LYS	Q	4	120.265	89.665	-24.194	1.00	80.91	QS17
ATOM	48730	C	LYS	Q	4	116.874	85.679	-26.803	1.00	64.08	QS17
ATOM	48731	O	LYS	Q	4	116.869	84.677	-27.530	1.00	64.08	QS17
ATOM	48732	N	VAL	Q	5	116.748	86.910	-27.283	1.00	73.38	QS17
ATOM	48733	CA	VAL	Q	5	116.601	87.154	-28.712	1.00	73.38	QS17
ATOM	48734	CB	VAL	Q	5	115.321	87.981	-29.003	1.00	62.09	QS17
ATOM	48735	CG1	VAL	Q	5	115.080	88.074	-30.499	1.00	62.09	QS17
ATOM	48736	CG2	VAL	Q	5	114.123	87.335	-28.330	1.00	62.09	QS17
ATOM	48737	C	VAL	Q	5	117.837	87.921	-29.178	1.00	73.38	QS17
ATOM	48738	O	VAL	Q	5	118.231	88.901	-28.553	1.00	73.38	QS17
ATOM	48739	N	LEU	Q	6	118.454	87.471	-30.263	1.00	80.48	QS17
ATOM	48740	CA	LEU	Q	6	119.656	88.131	-30.772	1.00	80.48	QS17
ATOM	48741	CB	LEU	Q	6	120.873	87.221	-30.578	1.00	66.98	QS17
ATOM	48742	CG	LEU	Q	6	121.192	86.762	-29.156	1.00	66.98	QS17
ATOM	48743	CD1	LEU	Q	6	122.393	85.841	-29.167	1.00	66.98	QS17
ATOM	48744	CD2	LEU	Q	6	121.467	87.966	-28.293	1.00	66.98	QS17
ATOM	48745	C	LEU	Q	6	119.533	88.483	-32.252	1.00	80.48	QS17
ATOM	48746	O	LEU	Q	6	118.638	87.980	-32.947	1.00	80.48	QS17
ATOM	48747	N	THR	Q	7	120.430	89.350	-32.728	1.00	68.77	QS17
ATOM	48748	CA	THR	Q	7	120.436	89.751	-34.132	1.00	68.77	QS17
ATOM	48749	CB	THR	Q	7	120.051	91.214	-34.331	1.00	94.01	QS17
ATOM	48750	OG1	THR	Q	7	118.771	91.470	-33.739	1.00	94.01	QS17
ATOM	48751	CG2	THR	Q	7	119.975	91.515	-35.815	1.00	94.01	QS17
ATOM	48752	C	THR	Q	7	121.812	89.584	-34.738	1.00	68.77	QS17
ATOM	48753	O	THR	Q	7	122.806	90.070	-34.196	1.00	68.77	QS17
ATOM	48754	N	GLY	Q	8	121.870	88.915	-35.880	1.00	64.35	QS17
ATOM	48755	CA	GLY	Q	8	123.153	88.708	-36.515	1.00	64.35	QS17
ATOM	48756	C	GLY	Q	8	123.041	88.491	-38.003	1.00	64.35	QS17
ATOM	48757	O	GLY	Q	8	121.949	88.525	-38.575	1.00	64.35	QS17
ATOM	48758	N	VAL	Q	9	124.188	88.258	-38.625	1.00	68.74	QS17
ATOM	48759	CA	VAL	Q	9	124.257	88.042	-40.053	1.00	68.74	QS17
ATOM	48760	CB	VAL	Q	9	125.387	88.828	-40.646	1.00	63.69	QS17
ATOM	48761	CG1	VAL	Q	9	125.306	88.764	-42.160	1.00	63.69	QS17
ATOM	48762	CG2	VAL	Q	9	125.338	90.246	-40.125	1.00	63.69	QS17
ATOM	48763	C	VAL	Q	9	124.510	86.588	-40.375	1.00	68.74	QS17
ATOM	48764	O	VAL	Q	9	125.436	85.981	-39.829	1.00	68.74	QS17
ATOM	48765	N	VAL	Q	10	123.699	86.041	-41.278	1.00	68.27	QS17
ATOM	48766	CA	VAL	Q	10	123.830	84.643	-41.688	1.00	68.27	QS17
ATOM	48767	CB	VAL	Q	10	122.571	84.157	-42.464	1.00	63.25	QS17
ATOM	48768	CG1	VAL	Q	10	122.563	82.634	-42.542	1.00	63.25	QS17
ATOM	48769	CG2	VAL	Q	10	121.309	84.660	-41.782	1.00	63.25	QS17
ATOM	48770	C	VAL	Q	10	125.059	84.505	-42.588	1.00	68.27	QS17
ATOM	48771	O	VAL	Q	10	124.991	84.764	-43.786	1.00	68.27	QS17
ATOM	48772	N	VAL	Q	11	126.177	84.089	-42.004	1.00	63.47	QS17
ATOM	48773	CA	VAL	Q	11	127.417	83.949	-42.746	1.00	63.47	QS17
ATOM	48774	CB	VAL	Q	11	128.615	84.402	-41.893	1.00	57.47	QS17
ATOM	48775	CG1	VAL	Q	11	128.284	85.705	-41.199	1.00	57.47	QS17
ATOM	48776	CG2	VAL	Q	11	128.964	83.345	-40.872	1.00	57.47	QS17
ATOM	48777	C	VAL	Q	11	127.689	82.538	-43.249	1.00	63.47	QS17
ATOM	48778	O	VAL	Q	11	128.778	82.268	-43.753	1.00	63.47	QS17
ATOM	48779	N	SER	Q	12	126.718	81.637	-43.119	1.00	95.58	QS17
ATOM	48780	CA	SER	Q	12	126.905	80.268	-43.600	1.00	95.58	QS17
ATOM	48781	CB	SER	Q	12	127.663	79.432	-42.582	1.00	83.96	QS17
ATOM	48782	OG	SER	Q	12	127.708	78.082	-43.010	1.00	83.96	QS17
ATOM	48783	C	SER	Q	12	125.608	79.555	-43.925	1.00	95.58	QS17
ATOM	48784	O	SER	Q	12	124.662	79.582	-43.138	1.00	95.58	QS17
ATOM	48785	N	ASP	Q	13	125.581	78.889	-45.074	1.00	89.93	QS17
ATOM	48786	CA	ASP	Q	13	124.386	78.180	-45.498	1.00	89.93	QS17
ATOM	48787	CB	ASP	Q	13	123.786	78.890	-46.706	1.00	162.54	QS17
ATOM	48788	CG	ASP	Q	13	122.367	78.472	-46.974	1.00	162.54	QS17
ATOM	48789	OD1	ASP	Q	13	121.741	79.071	-47.871	1.00	162.54	QS17
ATOM	48790	OD2	ASP	Q	13	121.875	77.549	-46.288	1.00	162.54	QS17
ATOM	48791	C	ASP	Q	13	124.697	76.726	-45.845	1.00	89.93	QS17
ATOM	48792	O	ASP	Q	13	123.816	75.967	-46.262	1.00	89.93	QS17
ATOM	48793	N	LYS	Q	14	125.952	76.336	-45.638	1.00	94.94	QS17
ATOM	48794	CA	LYS	Q	14	126.420	74.988	-45.954	1.00	94.94	QS17

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ATOM	48795	CB	LYS	Q	14	127.944	74.943	-45.838	1.00109.86	QS17
ATOM	48796	CG	LYS	Q	14	128.672	75.803	-46.850	1.00109.86	QS17
ATOM	48797	CD	LYS	Q	14	130.167	75.607	-46.720	1.00109.86	QS17
ATOM	48798	CE	LYS	Q	14	130.937	76.351	-47.790	1.00109.86	QS17
ATOM	48799	NZ	LYS	Q	14	132.401	76.126	-47.625	1.00109.86	QS17
ATOM	48800	C	LYS	Q	14	125.832	73.790	-45.196	1.00 94.94	QS17
ATOM	48801	O	LYS	Q	14	126.151	72.646	-45.520	1.00 94.94	QS17
ATOM	48802	N	MET	Q	15	124.989	74.023	-44.197	1.00101.36	QS17
ATOM	48803	CA	MET	Q	15	124.412	72.903	-43.458	1.00101.36	QS17
ATOM	48804	CB	MET	Q	15	124.569	73.119	-41.949	1.00 84.69	QS17
ATOM	48805	CG	MET	Q	15	126.015	73.178	-41.493	1.00 84.69	QS17
ATOM	48806	SD	MET	Q	15	126.241	73.409	-39.698	1.00 84.69	QS17
ATOM	48807	CE	MET	Q	15	126.058	75.174	-39.544	1.00 84.69	QS17
ATOM	48808	C	MET	Q	15	122.943	72.679	-43.800	1.00101.36	QS17
ATOM	48809	O	MET	Q	15	122.287	73.548	-44.388	1.00101.36	QS17
ATOM	48810	N	GLN	Q	16	122.439	71.501	-43.438	1.00 81.67	QS17
ATOM	48811	CA	GLN	Q	16	121.048	71.136	-43.687	1.00 81.67	QS17
ATOM	48812	CB	GLN	Q	16	120.907	69.610	-43.793	1.00102.64	QS17
ATOM	48813	CG	GLN	Q	16	121.662	68.966	-44.959	1.00102.64	QS17
ATOM	48814	CD	GLN	Q	16	121.413	67.458	-45.083	1.00102.64	QS17
ATOM	48815	OE1	GLN	Q	16	121.901	66.807	-46.014	1.00102.64	QS17
ATOM	48816	NE2	GLN	Q	16	120.652	66.903	-44.147	1.00102.64	QS17
ATOM	48817	C	GLN	Q	16	120.166	71.653	-42.549	1.00 81.67	QS17
ATOM	48818	O	GLN	Q	16	120.409	71.355	-41.380	1.00 81.67	QS17
ATOM	48819	N	LYS	Q	17	119.141	72.424	-42.895	1.00 90.64	QS17
ATOM	48820	CA	LYS	Q	17	118.225	72.992	-41.903	1.00 90.64	QS17
ATOM	48821	CB	LYS	Q	17	117.380	71.887	-41.249	1.00 69.24	QS17
ATOM	48822	CG	LYS	Q	17	116.533	71.067	-42.218	1.00 69.24	QS17
ATOM	48823	CD	LYS	Q	17	115.393	70.347	-41.496	1.00 69.24	QS17
ATOM	48824	CE	LYS	Q	17	114.807	69.188	-42.308	1.00 69.24	QS17
ATOM	48825	NZ	LYS	Q	17	115.759	68.037	-42.467	1.00 69.24	QS17
ATOM	48826	C	LYS	Q	17	118.967	73.778	-40.817	1.00 90.64	QS17
ATOM	48827	O	LYS	Q	17	118.484	73.905	-39.684	1.00 90.64	QS17
ATOM	48828	N	THR	Q	18	120.136	74.313	-41.175	1.00 73.14	QS17
ATOM	48829	CA	THR	Q	18	120.964	75.073	-40.237	1.00 73.14	QS17
ATOM	48830	CB	THR	Q	18	122.070	74.176	-39.622	1.00 72.94	QS17
ATOM	48831	OG1	THR	Q	18	121.493	72.962	-39.117	1.00 72.94	QS17
ATOM	48832	CG2	THR	Q	18	122.773	74.907	-38.487	1.00 72.94	QS17
ATOM	48833	C	THR	Q	18	121.662	76.277	-40.885	1.00 73.14	QS17
ATOM	48834	O	THR	Q	18	122.037	76.240	-42.058	1.00 73.14	QS17
ATOM	48835	N	VAL	Q	19	121.821	77.349	-40.117	1.00 72.26	QS17
ATOM	48836	CA	VAL	Q	19	122.522	78.527	-40.605	1.00 72.26	QS17
ATOM	48837	CB	VAL	Q	19	121.571	79.675	-41.013	1.00 51.24	QS17
ATOM	48838	CG1	VAL	Q	19	120.498	79.152	-41.919	1.00 51.24	QS17
ATOM	48839	CG2	VAL	Q	19	120.978	80.328	-39.802	1.00 51.24	QS17
ATOM	48840	C	VAL	Q	19	123.439	79.043	-39.506	1.00 72.26	QS17
ATOM	48841	O	VAL	Q	19	123.161	78.880	-38.310	1.00 72.26	QS17
ATOM	48842	N	THR	Q	20	124.547	79.648	-39.915	1.00 59.16	QS17
ATOM	48843	CA	THR	Q	20	125.479	80.198	-38.958	1.00 59.16	QS17
ATOM	48844	CB	THR	Q	20	126.900	79.939	-39.376	1.00 71.39	QS17
ATOM	48845	OG1	THR	Q	20	127.069	78.538	-39.608	1.00 71.39	QS17
ATOM	48846	CG2	THR	Q	20	127.851	80.401	-38.287	1.00 71.39	QS17
ATOM	48847	C	THR	Q	20	125.253	81.690	-38.910	1.00 59.16	QS17
ATOM	48848	O	THR	Q	20	125.433	82.381	-39.903	1.00 59.16	QS17
ATOM	48849	N	VAL	Q	21	124.840	82.181	-37.753	1.00 77.60	QS17
ATOM	48850	CA	VAL	Q	21	124.594	83.600	-37.598	1.00 77.60	QS17
ATOM	48851	CB	VAL	Q	21	123.278	83.859	-36.844	1.00 56.60	QS17
ATOM	48852	CG1	VAL	Q	21	122.957	85.347	-36.881	1.00 56.60	QS17
ATOM	48853	CG2	VAL	Q	21	122.149	83.045	-37.467	1.00 56.60	QS17
ATOM	48854	C	VAL	Q	21	125.745	84.261	-36.845	1.00 77.60	QS17
ATOM	48855	O	VAL	Q	21	126.281	83.708	-35.880	1.00 77.60	QS17
ATOM	48856	N	LEU	Q	22	126.123	85.449	-37.298	1.00 72.61	QS17
ATOM	48857	CA	LEU	Q	22	127.215	86.169	-36.677	1.00 72.61	QS17
ATOM	48858	CB	LEU	Q	22	128.227	86.586	-37.741	1.00 52.23	QS17
ATOM	48859	CG	LEU	Q	22	129.500	87.259	-37.230	1.00 52.23	QS17
ATOM	48860	CD1	LEU	Q	22	129.971	86.643	-35.929	1.00 52.23	QS17
ATOM	48861	CD2	LEU	Q	22	130.550	87.095	-38.283	1.00 52.23	QS17
ATOM	48862	C	LEU	Q	22	126.729	87.385	-35.896	1.00 72.61	QS17
ATOM	48863	O	LEU	Q	22	126.610	88.498	-36.433	1.00 72.61	QS17
ATOM	48864	N	VAL	Q	23	126.466	87.152	-34.613	1.00 61.04	QS17
ATOM	48865	CA	VAL	Q	23	125.978	88.191	-33.715	1.00 61.04	QS17
ATOM	48866	CB	VAL	Q	23	125.338	87.583	-32.449	1.00 76.75	QS17
ATOM	48867	CG1	VAL	Q	23	124.611	88.665	-31.674	1.00 76.75	QS17
ATOM	48868	CG2	VAL	Q	23	124.394	86.447	-32.823	1.00 76.75	QS17
ATOM	48869	C	VAL	Q	23	127.107	89.093	-33.265	1.00 61.04	QS17
ATOM	48870	O	VAL	Q	23	128.144	88.613	-32.813	1.00 61.04	QS17
ATOM	48871	N	GLU	Q	24	126.901	90.400	-33.380	1.00 78.15	QS17

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ATOM	48872	CA	GLU	Q	24	127.916	91.360	-32.959	1.00	78.15	QS17
ATOM	48873	CB	GLU	Q	24	128.091	92.425	-34.029	1.00	124.84	QS17
ATOM	48874	CG	GLU	Q	24	129.388	93.179	-33.950	1.00	124.84	QS17
ATOM	48875	CD	GLU	Q	24	129.700	93.862	-35.262	1.00	124.84	QS17
ATOM	48876	OE1	GLU	Q	24	129.943	93.145	-36.258	1.00	124.84	QS17
ATOM	48877	OE2	GLU	Q	24	129.689	95.111	-35.307	1.00	124.84	QS17
ATOM	48878	C	GLU	Q	24	127.431	91.968	-31.646	1.00	78.15	QS17
ATOM	48879	O	GLU	Q	24	126.226	92.059	-31.413	1.00	78.15	QS17
ATOM	48880	N	ARG	Q	25	128.359	92.392	-30.795	1.00	54.25	QS17
ATOM	48881	CA	ARG	Q	25	127.992	92.914	-29.484	1.00	54.25	QS17
ATOM	48882	CB	ARG	Q	25	127.967	91.757	-28.494	1.00	68.92	QS17
ATOM	48883	CG	ARG	Q	25	128.030	92.172	-27.044	1.00	68.92	QS17
ATOM	48884	CD	ARG	Q	25	128.034	90.952	-26.153	1.00	68.92	QS17
ATOM	48885	NE	ARG	Q	25	129.265	90.191	-26.308	1.00	68.92	QS17
ATOM	48886	CZ	ARG	Q	25	130.185	90.081	-25.355	1.00	68.92	QS17
ATOM	48887	NH1	ARG	Q	25	130.002	90.680	-24.178	1.00	68.92	QS17
ATOM	48888	NH2	ARG	Q	25	131.296	89.393	-25.587	1.00	68.92	QS17
ATOM	48889	C	ARG	Q	25	128.948	93.953	-28.956	1.00	54.25	QS17
ATOM	48890	O	ARG	Q	25	130.117	93.669	-28.768	1.00	54.25	QS17
ATOM	48891	N	GLN	Q	26	128.471	95.153	-28.676	1.00	56.51	QS17
ATOM	48892	CA	GLN	Q	26	129.393	96.153	-28.160	1.00	56.51	QS17
ATOM	48893	CB	GLN	Q	26	129.088	97.524	-28.750	1.00	96.45	QS17
ATOM	48894	CG	GLN	Q	26	129.191	97.546	-30.256	1.00	96.45	QS17
ATOM	48895	CD	GLN	Q	26	129.137	98.942	-30.808	1.00	96.45	QS17
ATOM	48896	OE1	GLN	Q	26	128.246	99.721	-30.463	1.00	96.45	QS17
ATOM	48897	NE2	GLN	Q	26	130.087	99.274	-31.678	1.00	96.45	QS17
ATOM	48898	C	GLN	Q	26	129.312	96.204	-26.656	1.00	56.51	QS17
ATOM	48899	O	GLN	Q	26	128.414	95.614	-26.062	1.00	56.51	QS17
ATOM	48900	N	PHE	Q	27	130.262	96.903	-26.045	1.00	60.59	QS17
ATOM	48901	CA	PHE	Q	27	130.310	97.051	-24.595	1.00	60.59	QS17
ATOM	48902	CB	PHE	Q	27	130.132	95.701	-23.907	1.00	52.82	QS17
ATOM	48903	CG	PHE	Q	27	131.337	94.811	-23.977	1.00	52.82	QS17
ATOM	48904	CD1	PHE	Q	27	132.425	95.020	-23.134	1.00	52.82	QS17
ATOM	48905	CD2	PHE	Q	27	131.365	93.724	-24.850	1.00	52.82	QS17
ATOM	48906	CE1	PHE	Q	27	133.524	94.148	-23.155	1.00	52.82	QS17
ATOM	48907	CE2	PHE	Q	27	132.464	92.845	-24.876	1.00	52.82	QS17
ATOM	48908	CZ	PHE	Q	27	133.542	93.058	-24.027	1.00	52.82	QS17
ATOM	48909	C	PHE	Q	27	131.605	97.683	-24.125	1.00	60.59	QS17
ATOM	48910	O	PHE	Q	27	132.653	97.550	-24.758	1.00	60.59	QS17
ATOM	48911	N	PRO	Q	28	131.548	98.369	-22.985	1.00	64.35	QS17
ATOM	48912	CD	PRO	Q	28	130.368	98.494	-22.118	1.00	56.31	QS17
ATOM	48913	CA	PRO	Q	28	132.699	99.044	-22.386	1.00	64.35	QS17
ATOM	48914	CB	PRO	Q	28	132.068	99.884	-21.298	1.00	56.31	QS17
ATOM	48915	CG	PRO	Q	28	130.979	98.975	-20.825	1.00	56.31	QS17
ATOM	48916	C	PRO	Q	28	133.662	98.047	-21.812	1.00	64.35	QS17
ATOM	48917	O	PRO	Q	28	133.283	97.193	-21.016	1.00	64.35	QS17
ATOM	48918	N	HIS	Q	29	134.908	98.142	-22.233	1.00	56.57	QS17
ATOM	48919	CA	HIS	Q	29	135.916	97.247	-21.714	1.00	56.57	QS17
ATOM	48920	CB	HIS	Q	29	137.264	97.583	-22.343	1.00	63.80	QS17
ATOM	48921	CG	HIS	Q	29	138.420	96.884	-21.709	1.00	63.80	QS17
ATOM	48922	CD2	HIS	Q	29	139.260	95.939	-22.189	1.00	63.80	QS17
ATOM	48923	ND1	HIS	Q	29	138.814	97.129	-20.412	1.00	63.80	QS17
ATOM	48924	CE1	HIS	Q	29	139.847	96.362	-20.120	1.00	63.80	QS17
ATOM	48925	NE2	HIS	Q	29	140.138	95.631	-21.182	1.00	63.80	QS17
ATOM	48926	C	HIS	Q	29	135.939	97.493	-20.204	1.00	56.57	QS17
ATOM	48927	O	HIS	Q	29	135.956	98.640	-19.751	1.00	56.57	QS17
ATOM	48928	N	PRO	Q	30	135.936	96.418	-19.406	1.00	53.91	QS17
ATOM	48929	CD	PRO	Q	30	136.139	95.032	-19.851	1.00	82.28	QS17
ATOM	48930	CA	PRO	Q	30	135.949	96.495	-17.943	1.00	53.91	QS17
ATOM	48931	CB	PRO	Q	30	136.109	95.041	-17.521	1.00	82.28	QS17
ATOM	48932	CG	PRO	Q	30	136.855	94.439	-18.664	1.00	82.28	QS17
ATOM	48933	C	PRO	Q	30	136.968	97.406	-17.264	1.00	53.91	QS17
ATOM	48934	O	PRO	Q	30	136.634	98.042	-16.279	1.00	53.91	QS17
ATOM	48935	N	LEU	Q	31	138.201	97.489	-17.753	1.00	62.13	QS17
ATOM	48936	CA	LEU	Q	31	139.169	98.361	-17.076	1.00	62.13	QS17
ATOM	48937	CB	LEU	Q	31	140.440	97.585	-16.705	1.00	49.52	QS17
ATOM	48938	CG	LEU	Q	31	141.589	98.453	-16.160	1.00	49.52	QS17
ATOM	48939	CD1	LEU	Q	31	141.272	99.015	-14.775	1.00	49.52	QS17
ATOM	48940	CD2	LEU	Q	31	142.831	97.614	-16.108	1.00	49.52	QS17
ATOM	48941	C	LEU	Q	31	139.582	99.631	-17.822	1.00	62.13	QS17
ATOM	48942	O	LEU	Q	31	139.788	100.680	-17.211	1.00	62.13	QS17
ATOM	48943	N	TYR	Q	32	139.721	99.546	-19.136	1.00	64.40	QS17
ATOM	48944	CA	TYR	Q	32	140.124	100.715	-19.890	1.00	64.40	QS17
ATOM	48945	CB	TYR	Q	32	141.050	100.270	-21.015	1.00	62.11	QS17
ATOM	48946	CG	TYR	Q	32	142.270	99.588	-20.432	1.00	62.11	QS17
ATOM	48947	CD1	TYR	Q	32	142.501	98.227	-20.616	1.00	62.11	QS17
ATOM	48948	CE1	TYR	Q	32	143.565	97.588	-19.983	1.00	62.11	QS17

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ATOM	48949	CD2	TYR	Q	32	143.142	100.291	-19.607	1.00	62.11	QS17
ATOM	48950	CE2	TYR	Q	32	144.203	99.663	-18.972	1.00	62.11	QS17
ATOM	48951	CZ	TYR	Q	32	144.409	98.315	-19.158	1.00	62.11	QS17
ATOM	48952	OH	TYR	Q	32	145.443	97.705	-18.480	1.00	62.11	QS17
ATOM	48953	C	TYR	Q	32	138.901	101.485	-20.368	1.00	64.40	QS17
ATOM	48954	O	TYR	Q	32	138.991	102.497	-21.061	1.00	64.40	QS17
ATOM	48955	N	GLY	Q	33	137.746	100.985	-19.962	1.00	59.53	QS17
ATOM	48956	CA	GLY	Q	33	136.491	101.633	-20.269	1.00	59.53	QS17
ATOM	48957	C	GLY	Q	33	136.116	101.989	-21.683	1.00	59.53	QS17
ATOM	48958	O	GLY	Q	33	135.024	102.520	-21.896	1.00	59.53	QS17
ATOM	48959	N	LYS	Q	34	136.973	101.724	-22.660	1.00	58.44	QS17
ATOM	48960	CA	LYS	Q	34	136.578	102.069	-24.020	1.00	58.44	QS17
ATOM	48961	CB	LYS	Q	34	137.801	102.160	-24.962	1.00	53.25	QS17
ATOM	48962	CG	LYS	Q	34	138.309	100.838	-25.537	1.00	53.25	QS17
ATOM	48963	CD	LYS	Q	34	138.238	100.787	-27.077	1.00	53.25	QS17
ATOM	48964	CE	LYS	Q	34	139.121	101.854	-27.778	1.00	53.25	QS17
ATOM	48965	NZ	LYS	Q	34	139.047	101.788	-29.282	1.00	53.25	QS17
ATOM	48966	C	LYS	Q	34	135.576	101.029	-24.521	1.00	58.44	QS17
ATOM	48967	O	LYS	Q	34	135.588	99.884	-24.079	1.00	58.44	QS17
ATOM	48968	N	VAL	Q	35	134.669	101.453	-25.393	1.00	69.92	QS17
ATOM	48969	CA	VAL	Q	35	133.701	100.539	-25.980	1.00	69.92	QS17
ATOM	48970	CB	VAL	Q	35	132.645	101.285	-26.830	1.00	62.85	QS17
ATOM	48971	CG1	VAL	Q	35	131.842	100.291	-27.665	1.00	62.85	QS17
ATOM	48972	CG2	VAL	Q	35	131.728	102.087	-25.928	1.00	62.85	QS17
ATOM	48973	C	VAL	Q	35	134.541	99.690	-26.921	1.00	69.92	QS17
ATOM	48974	O	VAL	Q	35	135.374	100.223	-27.648	1.00	69.92	QS17
ATOM	48975	N	ILE	Q	36	134.340	98.379	-26.903	1.00	62.80	QS17
ATOM	48976	CA	ILE	Q	36	135.095	97.485	-27.770	1.00	62.80	QS17
ATOM	48977	CB	ILE	Q	36	136.057	96.633	-26.946	1.00	66.70	QS17
ATOM	48978	CG2	ILE	Q	36	136.957	97.539	-26.104	1.00	66.70	QS17
ATOM	48979	CG1	ILE	Q	36	135.273	95.721	-26.007	1.00	66.70	QS17
ATOM	48980	CD1	ILE	Q	36	136.146	94.973	-25.038	1.00	66.70	QS17
ATOM	48981	C	ILE	Q	36	134.049	96.621	-28.440	1.00	62.80	QS17
ATOM	48982	O	ILE	Q	36	132.962	96.445	-27.896	1.00	62.80	QS17
ATOM	48983	N	LYS	Q	37	134.348	96.070	-29.607	1.00	76.42	QS17
ATOM	48984	CA	LYS	Q	37	133.331	95.284	-30.291	1.00	76.42	QS17
ATOM	48985	CB	LYS	Q	37	132.975	95.973	-31.595	1.00	91.73	QS17
ATOM	48986	CG	LYS	Q	37	131.919	95.281	-32.406	1.00	91.73	QS17
ATOM	48987	CD	LYS	Q	37	131.935	95.852	-33.815	1.00	91.73	QS17
ATOM	48988	CE	LYS	Q	37	131.736	97.375	-33.815	1.00	91.73	QS17
ATOM	48989	NZ	LYS	Q	37	132.049	98.012	-35.140	1.00	91.73	QS17
ATOM	48990	C	LYS	Q	37	133.696	93.841	-30.566	1.00	76.42	QS17
ATOM	48991	O	LYS	Q	37	134.490	93.559	-31.460	1.00	76.42	QS17
ATOM	48992	N	ARG	Q	38	133.086	92.936	-29.803	1.00	68.48	QS17
ATOM	48993	CA	ARG	Q	38	133.306	91.493	-29.917	1.00	68.48	QS17
ATOM	48994	CB	ARG	Q	38	133.325	90.875	-28.516	1.00	93.84	QS17
ATOM	48995	CG	ARG	Q	38	134.423	89.847	-28.287	1.00	93.84	QS17
ATOM	48996	CD	ARG	Q	38	135.697	90.466	-27.697	1.00	93.84	QS17
ATOM	48997	NE	ARG	Q	38	136.293	91.494	-28.548	1.00	93.84	QS17
ATOM	48998	CZ	ARG	Q	38	137.485	92.032	-28.321	1.00	93.84	QS17
ATOM	48999	NH1	ARG	Q	38	138.191	91.631	-27.272	1.00	93.84	QS17
ATOM	49000	NH2	ARG	Q	38	137.969	92.960	-29.136	1.00	93.84	QS17
ATOM	49001	C	ARG	Q	38	132.187	90.839	-30.753	1.00	68.48	QS17
ATOM	49002	O	ARG	Q	38	131.196	91.486	-31.092	1.00	68.48	QS17
ATOM	49003	N	SER	Q	39	132.335	89.562	-31.087	1.00	89.55	QS17
ATOM	49004	CA	SER	Q	39	131.308	88.876	-31.872	1.00	89.55	QS17
ATOM	49005	CB	SER	Q	39	131.461	89.214	-33.352	1.00	77.29	QS17
ATOM	49006	OG	SER	Q	39	132.671	88.690	-33.860	1.00	77.29	QS17
ATOM	49007	C	SER	Q	39	131.348	87.357	-31.684	1.00	89.55	QS17
ATOM	49008	O	SER	Q	39	132.357	86.798	-31.252	1.00	89.55	QS17
ATOM	49009	N	LYS	Q	40	130.251	86.689	-32.029	1.00	69.28	QS17
ATOM	49010	CA	LYS	Q	40	130.163	85.243	-31.860	1.00	69.28	QS17
ATOM	49011	CB	LYS	Q	40	129.621	84.960	-30.471	1.00	59.30	QS17
ATOM	49012	CG	LYS	Q	40	129.347	83.529	-30.132	1.00	59.30	QS17
ATOM	49013	CD	LYS	Q	40	128.876	83.536	-28.704	1.00	59.30	QS17
ATOM	49014	CE	LYS	Q	40	128.428	82.190	-28.242	1.00	59.30	QS17
ATOM	49015	NZ	LYS	Q	40	127.742	82.378	-26.936	1.00	59.30	QS17
ATOM	49016	C	LYS	Q	40	129.285	84.590	-32.920	1.00	69.28	QS17
ATOM	49017	O	LYS	Q	40	128.370	85.219	-33.457	1.00	69.28	QS17
ATOM	49018	N	LYS	Q	41	129.561	83.325	-33.215	1.00	50.87	QS17
ATOM	49019	CA	LYS	Q	41	128.802	82.623	-34.236	1.00	50.87	QS17
ATOM	49020	CB	LYS	Q	41	129.733	81.912	-35.226	1.00	58.43	QS17
ATOM	49021	CG	LYS	Q	41	130.153	82.734	-36.426	1.00	58.43	QS17
ATOM	49022	CD	LYS	Q	41	131.037	81.917	-37.347	1.00	58.43	QS17
ATOM	49023	CE	LYS	Q	41	132.408	81.706	-36.755	1.00	58.43	QS17
ATOM	49024	NZ	LYS	Q	41	133.134	80.579	-37.420	1.00	58.43	QS17
ATOM	49025	C	LYS	Q	41	127.894	81.588	-33.653	1.00	50.87	QS17

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ATOM	49026	O	LYS	Q	41	128.373	80.665	-33.007	1.00	50.87	QS17
ATOM	49027	N	TYR	Q	42	126.595	81.725	-33.906	1.00	66.86	QS17
ATOM	49028	CA	TYR	Q	42	125.609	80.762	-33.428	1.00	66.86	QS17
ATOM	49029	CB	TYR	Q	42	124.431	81.489	-32.791	1.00	59.67	QS17
ATOM	49030	CG	TYR	Q	42	124.769	82.243	-31.546	1.00	59.67	QS17
ATOM	49031	CD1	TYR	Q	42	125.344	83.495	-31.606	1.00	59.67	QS17
ATOM	49032	CE1	TYR	Q	42	125.633	84.206	-30.437	1.00	59.67	QS17
ATOM	49033	CD2	TYR	Q	42	124.490	81.703	-30.294	1.00	59.67	QS17
ATOM	49034	CE2	TYR	Q	42	124.774	82.396	-29.115	1.00	59.67	QS17
ATOM	49035	CZ	TYR	Q	42	125.347	83.649	-29.187	1.00	59.67	QS17
ATOM	49036	OH	TYR	Q	42	125.650	84.337	-28.017	1.00	59.67	QS17
ATOM	49037	C	TYR	Q	42	125.077	79.897	-34.581	1.00	66.86	QS17
ATOM	49038	O	TYR	Q	42	124.987	80.353	-35.722	1.00	66.86	QS17
ATOM	49039	N	LEU	Q	43	124.735	78.645	-34.299	1.00	67.04	QS17
ATOM	49040	CA	LEU	Q	43	124.166	77.787	-35.338	1.00	67.04	QS17
ATOM	49041	CB	LEU	Q	43	124.739	76.369	-35.276	1.00	48.45	QS17
ATOM	49042	CG	LEU	Q	43	126.202	76.252	-35.701	1.00	48.45	QS17
ATOM	49043	CD1	LEU	Q	43	126.579	74.798	-35.880	1.00	48.45	QS17
ATOM	49044	CD2	LEU	Q	43	126.396	77.010	-37.006	1.00	48.45	QS17
ATOM	49045	C	LEU	Q	43	122.670	77.754	-35.092	1.00	67.04	QS17
ATOM	49046	O	LEU	Q	43	122.184	77.115	-34.151	1.00	67.04	QS17
ATOM	49047	N	ALA	Q	44	121.944	78.474	-35.933	1.00	78.40	QS17
ATOM	49048	CA	ALA	Q	44	120.501	78.558	-35.799	1.00	78.40	QS17
ATOM	49049	CB	ALA	Q	44	120.021	79.953	-36.169	1.00	99.80	QS17
ATOM	49050	C	ALA	Q	44	119.785	77.524	-36.645	1.00	78.40	QS17
ATOM	49051	O	ALA	Q	44	120.160	77.251	-37.792	1.00	78.40	QS17
ATOM	49052	N	HIS	Q	45	118.737	76.959	-36.063	1.00	68.54	QS17
ATOM	49053	CA	HIS	Q	45	117.965	75.954	-36.750	1.00	68.54	QS17
ATOM	49054	CB	HIS	Q	45	117.202	75.104	-35.745	1.00	85.36	QS17
ATOM	49055	CG	HIS	Q	45	116.353	74.053	-36.379	1.00	85.36	QS17
ATOM	49056	CD2	HIS	Q	45	115.112	73.605	-36.076	1.00	85.36	QS17
ATOM	49057	ND1	HIS	Q	45	116.768	73.333	-37.478	1.00	85.36	QS17
ATOM	49058	CE1	HIS	Q	45	115.815	72.488	-37.827	1.00	85.36	QS17
ATOM	49059	NE2	HIS	Q	45	114.800	72.632	-36.993	1.00	85.36	QS17
ATOM	49060	C	HIS	Q	45	117.009	76.612	-37.719	1.00	68.54	QS17
ATOM	49061	O	HIS	Q	45	116.226	77.488	-37.348	1.00	68.54	QS17
ATOM	49062	N	ASP	Q	46	117.103	76.188	-38.971	1.00	84.15	QS17
ATOM	49063	CA	ASP	Q	46	116.261	76.701	-40.032	1.00	84.15	QS17
ATOM	49064	CB	ASP	Q	46	117.099	77.483	-41.029	1.00	87.30	QS17
ATOM	49065	CG	ASP	Q	46	116.284	77.974	-42.192	1.00	87.30	QS17
ATOM	49066	OD1	ASP	Q	46	116.883	78.502	-43.156	1.00	87.30	QS17
ATOM	49067	OD2	ASP	Q	46	115.042	77.829	-42.132	1.00	87.30	QS17
ATOM	49068	C	ASP	Q	46	115.644	75.498	-40.722	1.00	84.15	QS17
ATOM	49069	O	ASP	Q	46	116.208	74.967	-41.673	1.00	84.15	QS17
ATOM	49070	N	PRO	Q	47	114.476	75.049	-40.249	1.00	93.87	QS17
ATOM	49071	CD	PRO	Q	47	113.759	75.534	-39.059	1.00	101.25	QS17
ATOM	49072	CA	PRO	Q	47	113.792	73.892	-40.829	1.00	93.87	QS17
ATOM	49073	CB	PRO	Q	47	112.534	73.772	-39.979	1.00	101.25	QS17
ATOM	49074	CG	PRO	Q	47	112.973	74.310	-38.651	1.00	101.25	QS17
ATOM	49075	C	PRO	Q	47	113.466	74.023	-42.302	1.00	93.87	QS17
ATOM	49076	O	PRO	Q	47	113.779	73.129	-43.084	1.00	93.87	QS17
ATOM	49077	N	GLU	Q	48	112.842	75.139	-42.673	1.00	94.33	QS17
ATOM	49078	CA	GLU	Q	48	112.439	75.384	-44.057	1.00	94.33	QS17
ATOM	49079	CB	GLU	Q	48	111.396	76.505	-44.105	1.00	176.15	QS17
ATOM	49080	CG	GLU	Q	48	110.133	76.249	-43.301	1.00	176.15	QS17
ATOM	49081	CD	GLU	Q	48	109.189	77.443	-43.313	1.00	176.15	QS17
ATOM	49082	OE1	GLU	Q	48	109.590	78.524	-42.829	1.00	176.15	QS17
ATOM	49083	OE2	GLU	Q	48	108.049	77.304	-43.807	1.00	176.15	QS17
ATOM	49084	C	GLU	Q	48	113.570	75.745	-45.021	1.00	94.33	QS17
ATOM	49085	O	GLU	Q	48	113.313	75.991	-46.198	1.00	94.33	QS17
ATOM	49086	N	GLU	Q	49	114.811	75.768	-44.535	1.00	80.23	QS17
ATOM	49087	CA	GLU	Q	49	115.967	76.141	-45.363	1.00	80.23	QS17
ATOM	49088	CB	GLU	Q	49	116.252	75.061	-46.416	1.00	122.33	QS17
ATOM	49089	CG	GLU	Q	49	116.971	73.822	-45.863	1.00	122.33	QS17
ATOM	49090	CD	GLU	Q	49	118.483	74.012	-45.717	1.00	122.33	QS17
ATOM	49091	OE1	GLU	Q	49	118.926	75.098	-45.277	1.00	122.33	QS17
ATOM	49092	OE2	GLU	Q	49	119.233	73.063	-46.034	1.00	122.33	QS17
ATOM	49093	C	GLU	Q	49	115.645	77.476	-46.030	1.00	80.23	QS17
ATOM	49094	O	GLU	Q	49	116.108	77.774	-47.128	1.00	80.23	QS17
ATOM	49095	N	LYS	Q	50	114.847	78.268	-45.316	1.00	80.35	QS17
ATOM	49096	CA	LYS	Q	50	114.364	79.579	-45.739	1.00	80.35	QS17
ATOM	49097	CB	LYS	Q	50	113.256	80.016	-44.771	1.00	117.31	QS17
ATOM	49098	CG	LYS	Q	50	112.612	81.351	-45.071	1.00	117.31	QS17
ATOM	49099	CD	LYS	Q	50	111.298	81.502	-44.314	1.00	117.31	QS17
ATOM	49100	CE	LYS	Q	50	110.489	82.662	-44.879	1.00	117.31	QS17
ATOM	49101	NZ	LYS	Q	50	109.077	82.675	-44.405	1.00	117.31	QS17
ATOM	49102	C	LYS	Q	50	115.422	80.684	-45.851	1.00	80.35	QS17

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ATOM	49103	O	LYS	Q	50	115.498	81.383	-46.864	1.00	80.35	QS17
ATOM	49104	N	TYR	Q	51	116.236	80.838	-44.812	1.00	87.66	QS17
ATOM	49105	CA	TYR	Q	51	117.263	81.873	-44.786	1.00	87.66	QS17
ATOM	49106	CB	TYR	Q	51	117.676	82.125	-43.345	1.00	92.09	QS17
ATOM	49107	CG	TYR	Q	51	116.474	82.446	-42.511	1.00	92.09	QS17
ATOM	49108	CD1	TYR	Q	51	115.727	81.437	-41.915	1.00	92.09	QS17
ATOM	49109	CE1	TYR	Q	51	114.544	81.721	-41.263	1.00	92.09	QS17
ATOM	49110	CD2	TYR	Q	51	116.007	83.752	-42.423	1.00	92.09	QS17
ATOM	49111	CE2	TYR	Q	51	114.827	84.049	-41.776	1.00	92.09	QS17
ATOM	49112	CZ	TYR	Q	51	114.098	83.034	-41.199	1.00	92.09	QS17
ATOM	49113	OH	TYR	Q	51	112.919	83.341	-40.560	1.00	92.09	QS17
ATOM	49114	C	TYR	Q	51	118.481	81.590	-45.641	1.00	87.66	QS17
ATOM	49115	O	TYR	Q	51	119.115	80.546	-45.515	1.00	87.66	QS17
ATOM	49116	N	LYS	Q	52	118.793	82.536	-46.518	1.00	86.53	QS17
ATOM	49117	CA	LYS	Q	52	119.937	82.419	-47.408	1.00	86.53	QS17
ATOM	49118	CB	LYS	Q	52	119.540	82.827	-48.829	1.00	122.89	QS17
ATOM	49119	CG	LYS	Q	52	118.405	82.004	-49.415	1.00	122.89	QS17
ATOM	49120	CD	LYS	Q	52	118.136	82.386	-50.866	1.00	122.89	QS17
ATOM	49121	CE	LYS	Q	52	116.990	81.563	-51.452	1.00	122.89	QS17
ATOM	49122	NZ	LYS	Q	52	116.736	81.862	-52.896	1.00	122.89	QS17
ATOM	49123	C	LYS	Q	52	121.094	83.288	-46.918	1.00	86.53	QS17
ATOM	49124	O	LYS	Q	52	120.895	84.384	-46.391	1.00	86.53	QS17
ATOM	49125	N	LEU	Q	53	122.308	82.780	-47.090	1.00	91.09	QS17
ATOM	49126	CA	LEU	Q	53	123.509	83.487	-46.672	1.00	91.09	QS17
ATOM	49127	CB	LEU	Q	53	124.739	82.757	-47.221	1.00	65.97	QS17
ATOM	49128	CG	LEU	Q	53	126.003	83.534	-47.574	1.00	65.97	QS17
ATOM	49129	CD1	LEU	Q	53	126.349	84.534	-46.491	1.00	65.97	QS17
ATOM	49130	CD2	LEU	Q	53	127.135	82.545	-47.773	1.00	65.97	QS17
ATOM	49131	C	LEU	Q	53	123.497	84.941	-47.124	1.00	91.09	QS17
ATOM	49132	O	LEU	Q	53	123.601	85.233	-48.309	1.00	91.09	QS17
ATOM	49133	N	GLY	Q	54	123.371	85.847	-46.162	1.00	68.97	QS17
ATOM	49134	CA	GLY	Q	54	123.344	87.265	-46.466	1.00	68.97	QS17
ATOM	49135	C	GLY	Q	54	122.303	88.014	-45.645	1.00	68.97	QS17
ATOM	49136	O	GLY	Q	54	122.417	89.237	-45.445	1.00	68.97	QS17
ATOM	49137	N	ASP	Q	55	121.291	87.286	-45.163	1.00	80.82	QS17
ATOM	49138	CA	ASP	Q	55	120.218	87.874	-44.358	1.00	80.82	QS17
ATOM	49139	CB	ASP	Q	55	119.062	86.896	-44.176	1.00	114.62	QS17
ATOM	49140	CG	ASP	Q	55	118.477	86.442	-45.473	1.00	114.62	QS17
ATOM	49141	OD1	ASP	Q	55	118.155	87.312	-46.307	1.00	114.62	QS17
ATOM	49142	OD2	ASP	Q	55	118.332	85.215	-45.654	1.00	114.62	QS17
ATOM	49143	C	ASP	Q	55	120.655	88.298	-42.970	1.00	80.82	QS17
ATOM	49144	O	ASP	Q	55	121.670	87.844	-42.442	1.00	80.82	QS17
ATOM	49145	N	VAL	Q	56	119.860	89.174	-42.382	1.00	75.75	QS17
ATOM	49146	CA	VAL	Q	56	120.101	89.657	-41.036	1.00	75.75	QS17
ATOM	49147	CB	VAL	Q	56	119.992	91.174	-40.943	1.00	67.93	QS17
ATOM	49148	CG1	VAL	Q	56	120.071	91.608	-39.496	1.00	67.93	QS17
ATOM	49149	CG2	VAL	Q	56	121.084	91.814	-41.764	1.00	67.93	QS17
ATOM	49150	C	VAL	Q	56	118.919	89.074	-40.331	1.00	75.75	QS17
ATOM	49151	O	VAL	Q	56	117.793	89.490	-40.575	1.00	75.75	QS17
ATOM	49152	N	VAL	Q	57	119.152	88.108	-39.465	1.00	65.88	QS17
ATOM	49153	CA	VAL	Q	57	118.032	87.492	-38.789	1.00	65.88	QS17
ATOM	49154	CB	VAL	Q	57	118.020	85.986	-39.047	1.00	44.00	QS17
ATOM	49155	CG1	VAL	Q	57	118.013	85.723	-40.524	1.00	44.00	QS17
ATOM	49156	CG2	VAL	Q	57	119.256	85.354	-38.436	1.00	44.00	QS17
ATOM	49157	C	VAL	Q	57	118.040	87.710	-37.292	1.00	65.88	QS17
ATOM	49158	O	VAL	Q	57	119.018	88.212	-36.718	1.00	65.88	QS17
ATOM	49159	N	GLU	Q	58	116.917	87.354	-36.677	1.00	75.80	QS17
ATOM	49160	CA	GLU	Q	58	116.778	87.423	-35.238	1.00	75.80	QS17
ATOM	49161	CB	GLU	Q	58	115.434	88.008	-34.816	1.00	103.92	QS17
ATOM	49162	CG	GLU	Q	58	115.309	89.495	-35.047	1.00	103.92	QS17
ATOM	49163	CD	GLU	Q	58	114.254	90.128	-34.154	1.00	103.92	QS17
ATOM	49164	OE1	GLU	Q	58	113.137	89.572	-34.062	1.00	103.92	QS17
ATOM	49165	OE2	GLU	Q	58	114.540	91.185	-33.548	1.00	103.92	QS17
ATOM	49166	C	GLU	Q	58	116.872	85.971	-34.796	1.00	75.80	QS17
ATOM	49167	O	GLU	Q	58	116.232	85.078	-35.353	1.00	75.80	QS17
ATOM	49168	N	ILE	Q	59	117.711	85.738	-33.808	1.00	56.31	QS17
ATOM	49169	CA	ILE	Q	59	117.911	84.414	-33.286	1.00	56.31	QS17
ATOM	49170	CB	ILE	Q	59	119.412	84.211	-33.020	1.00	73.62	QS17
ATOM	49171	CG2	ILE	Q	59	119.658	83.022	-32.182	1.00	73.62	QS17
ATOM	49172	CG1	ILE	Q	59	120.120	84.038	-34.354	1.00	73.62	QS17
ATOM	49173	CD1	ILE	Q	59	119.374	83.112	-35.304	1.00	73.62	QS17
ATOM	49174	C	ILE	Q	59	117.088	84.391	-32.021	1.00	56.31	QS17
ATOM	49175	O	ILE	Q	59	116.809	85.448	-31.442	1.00	56.31	QS17
ATOM	49176	N	ILE	Q	60	116.677	83.204	-31.595	1.00	59.83	QS17
ATOM	49177	CA	ILE	Q	60	115.868	83.107	-30.390	1.00	59.83	QS17
ATOM	49178	CB	ILE	Q	60	114.353	83.046	-30.782	1.00	63.37	QS17
ATOM	49179	CG2	ILE	Q	60	113.998	81.640	-31.254	1.00	63.37	QS17

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ATOM	49180	CG1	ILE	Q	60	113.463	83.533	-29.624	1.00	63.37	QS17
ATOM	49181	CD1	ILE	Q	60	113.357	82.592	-28.446	1.00	63.37	QS17
ATOM	49182	C	ILE	Q	60	116.276	81.881	-29.572	1.00	59.83	QS17
ATOM	49183	O	ILE	Q	60	116.466	80.789	-30.131	1.00	59.83	QS17
ATOM	49184	N	GLU	Q	61	116.431	82.072	-28.260	1.00	66.05	QS17
ATOM	49185	CA	GLU	Q	61	116.801	80.986	-27.353	1.00	66.05	QS17
ATOM	49186	CB	GLU	Q	61	116.789	81.487	-25.913	1.00	70.53	QS17
ATOM	49187	CG	GLU	Q	61	117.207	80.455	-24.894	1.00	70.53	QS17
ATOM	49188	CD	GLU	Q	61	117.271	81.008	-23.462	1.00	70.53	QS17
ATOM	49189	OE1	GLU	Q	61	117.547	80.208	-22.545	1.00	70.53	QS17
ATOM	49190	OE2	GLU	Q	61	117.054	82.224	-23.238	1.00	70.53	QS17
ATOM	49191	C	GLU	Q	61	115.781	79.863	-27.537	1.00	66.05	QS17
ATOM	49192	O	GLU	Q	61	114.567	80.095	-27.458	1.00	66.05	QS17
ATOM	49193	N	SER	Q	62	116.256	78.647	-27.785	1.00	67.82	QS17
ATOM	49194	CA	SER	Q	62	115.335	77.531	-28.023	1.00	67.82	QS17
ATOM	49195	CB	SER	Q	62	115.232	77.261	-29.536	1.00	81.69	QS17
ATOM	49196	OG	SER	Q	62	115.108	78.461	-30.283	1.00	81.69	QS17
ATOM	49197	C	SER	Q	62	115.711	76.225	-27.322	1.00	67.82	QS17
ATOM	49198	O	SER	Q	62	116.709	76.144	-26.605	1.00	67.82	QS17
ATOM	49199	N	ARG	Q	63	114.898	75.198	-27.541	1.00	82.92	QS17
ATOM	49200	CA	ARG	Q	63	115.169	73.895	-26.961	1.00	82.92	QS17
ATOM	49201	CB	ARG	Q	63	113.907	73.044	-26.900	1.00	73.91	QS17
ATOM	49202	CG	ARG	Q	63	114.181	71.585	-26.564	1.00	73.91	QS17
ATOM	49203	CD	ARG	Q	63	113.609	70.708	-27.644	1.00	73.91	QS17
ATOM	49204	NE	ARG	Q	63	112.242	71.114	-27.947	1.00	73.91	QS17
ATOM	49205	CZ	ARG	Q	63	111.484	70.537	-28.867	1.00	73.91	QS17
ATOM	49206	NH1	ARG	Q	63	111.955	69.525	-29.581	1.00	73.91	QS17
ATOM	49207	NH2	ARG	Q	63	110.257	70.971	-29.066	1.00	73.91	QS17
ATOM	49208	C	ARG	Q	63	116.181	73.215	-27.860	1.00	82.92	QS17
ATOM	49209	O	ARG	Q	63	116.051	73.229	-29.090	1.00	82.92	QS17
ATOM	49210	N	PRO	Q	64	117.194	72.593	-27.254	1.00	48.12	QS17
ATOM	49211	CD	PRO	Q	64	117.260	72.336	-25.801	1.00	67.91	QS17
ATOM	49212	CA	PRO	Q	64	118.265	71.893	-27.967	1.00	48.12	QS17
ATOM	49213	CB	PRO	Q	64	118.790	70.927	-26.914	1.00	67.91	QS17
ATOM	49214	CG	PRO	Q	64	118.635	71.726	-25.635	1.00	67.91	QS17
ATOM	49215	C	PRO	Q	64	117.794	71.190	-29.227	1.00	48.12	QS17
ATOM	49216	O	PRO	Q	64	116.714	70.615	-29.257	1.00	48.12	QS17
ATOM	49217	N	ILE	Q	65	118.613	71.240	-30.268	1.00	83.26	QS17
ATOM	49218	CA	ILE	Q	65	118.281	70.607	-31.538	1.00	83.26	QS17
ATOM	49219	CB	ILE	Q	65	117.933	71.650	-32.588	1.00	60.92	QS17
ATOM	49220	CG2	ILE	Q	65	117.393	70.970	-33.844	1.00	60.92	QS17
ATOM	49221	CG1	ILE	Q	65	116.923	72.628	-31.986	1.00	60.92	QS17
ATOM	49222	CD1	ILE	Q	65	116.522	73.746	-32.903	1.00	60.92	QS17
ATOM	49223	C	ILE	Q	65	119.455	69.791	-32.035	1.00	83.26	QS17
ATOM	49224	O	ILE	Q	65	119.327	69.034	-33.003	1.00	83.26	QS17
ATOM	49225	N	SER	Q	66	120.595	69.963	-31.363	1.00	61.40	QS17
ATOM	49226	CA	SER	Q	66	121.839	69.248	-31.666	1.00	61.40	QS17
ATOM	49227	CB	SER	Q	66	122.233	69.428	-33.136	1.00	59.74	QS17
ATOM	49228	OG	SER	Q	66	122.627	70.759	-33.402	1.00	59.74	QS17
ATOM	49229	C	SER	Q	66	122.977	69.745	-30.786	1.00	61.40	QS17
ATOM	49230	O	SER	Q	66	122.908	70.826	-30.211	1.00	61.40	QS17
ATOM	49231	N	LYS	Q	67	124.025	68.950	-30.657	1.00	81.40	QS17
ATOM	49232	CA	LYS	Q	67	125.151	69.402	-29.863	1.00	81.40	QS17
ATOM	49233	CB	LYS	Q	67	126.331	68.458	-30.042	1.00	81.74	QS17
ATOM	49234	CG	LYS	Q	67	127.672	69.043	-29.642	1.00	81.74	QS17
ATOM	49235	CD	LYS	Q	67	128.790	68.075	-29.987	1.00	81.74	QS17
ATOM	49236	CE	LYS	Q	67	130.137	68.536	-29.446	1.00	81.74	QS17
ATOM	49237	NZ	LYS	Q	67	131.159	67.440	-29.537	1.00	81.74	QS17
ATOM	49238	C	LYS	Q	67	125.498	70.730	-30.491	1.00	81.40	QS17
ATOM	49239	O	LYS	Q	67	125.752	70.775	-31.684	1.00	81.40	QS17
ATOM	49240	N	ARG	Q	68	125.495	71.819	-29.736	1.00	84.89	QS17
ATOM	49241	CA	ARG	Q	68	125.857	73.098	-30.360	1.00	84.89	QS17
ATOM	49242	CB	ARG	Q	68	127.209	72.937	-31.080	1.00	85.90	QS17
ATOM	49243	CG	ARG	Q	68	127.759	74.175	-31.721	1.00	85.90	QS17
ATOM	49244	CD	ARG	Q	68	129.250	74.053	-31.924	1.00	85.90	QS17
ATOM	49245	NE	ARG	Q	68	129.819	75.380	-32.102	1.00	85.90	QS17
ATOM	49246	CZ	ARG	Q	68	129.600	76.145	-33.166	1.00	85.90	QS17
ATOM	49247	NH1	ARG	Q	68	128.832	75.701	-34.152	1.00	85.90	QS17
ATOM	49248	NH2	ARG	Q	68	130.128	77.364	-33.237	1.00	85.90	QS17
ATOM	49249	C	ARG	Q	68	124.782	73.514	-31.361	1.00	84.89	QS17
ATOM	49250	O	ARG	Q	68	124.984	73.390	-32.566	1.00	84.89	QS17
ATOM	49251	N	LYS	Q	69	123.657	74.013	-30.849	1.00	68.52	QS17
ATOM	49252	CA	LYS	Q	69	122.511	74.423	-31.666	1.00	68.52	QS17
ATOM	49253	CB	LYS	Q	69	122.184	73.343	-32.707	1.00	48.39	QS17
ATOM	49254	CG	LYS	Q	69	121.295	73.757	-33.874	1.00	48.39	QS17
ATOM	49255	CD	LYS	Q	69	121.587	72.859	-35.110	1.00	48.39	QS17
ATOM	49256	CE	LYS	Q	69	120.903	73.322	-36.411	1.00	48.39	QS17

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ATOM	49257	NZ	LYS	Q	69	119.436	73.025	-36.548	1.00	48.39	QS17
ATOM	49258	C	LYS	Q	69	121.347	74.547	-30.694	1.00	68.52	QS17
ATOM	49259	O	LYS	Q	69	120.627	73.580	-30.442	1.00	68.52	QS17
ATOM	49260	N	ARG	Q	70	121.182	75.730	-30.122	1.00	81.97	QS17
ATOM	49261	CA	ARG	Q	70	120.096	75.962	-29.180	1.00	81.97	QS17
ATOM	49262	CB	ARG	Q	70	120.612	75.955	-27.741	1.00	64.55	QS17
ATOM	49263	CG	ARG	Q	70	121.034	74.593	-27.246	1.00	64.55	QS17
ATOM	49264	CD	ARG	Q	70	122.545	74.422	-27.211	1.00	64.55	QS17
ATOM	49265	NE	ARG	Q	70	122.934	73.162	-26.565	1.00	64.55	QS17
ATOM	49266	CZ	ARG	Q	70	122.679	71.948	-27.056	1.00	64.55	QS17
ATOM	49267	NH1	ARG	Q	70	122.029	71.812	-28.204	1.00	64.55	QS17
ATOM	49268	NH2	ARG	Q	70	123.084	70.867	-26.405	1.00	64.55	QS17
ATOM	49269	C	ARG	Q	70	119.434	77.293	-29.477	1.00	81.97	QS17
ATOM	49270	O	ARG	Q	70	119.020	78.012	-28.565	1.00	81.97	QS17
ATOM	49271	N	PHE	Q	71	119.339	77.610	-30.765	1.00	67.43	QS17
ATOM	49272	CA	PHE	Q	71	118.726	78.852	-31.216	1.00	67.43	QS17
ATOM	49273	CB	PHE	Q	71	119.797	79.935	-31.377	1.00	66.59	QS17
ATOM	49274	CG	PHE	Q	71	120.216	80.585	-30.086	1.00	66.59	QS17
ATOM	49275	CD1	PHE	Q	71	119.511	81.677	-29.579	1.00	66.59	QS17
ATOM	49276	CD2	PHE	Q	71	121.310	80.102	-29.372	1.00	66.59	QS17
ATOM	49277	CE1	PHE	Q	71	119.886	82.287	-28.377	1.00	66.59	QS17
ATOM	49278	CE2	PHE	Q	71	121.699	80.701	-28.160	1.00	66.59	QS17
ATOM	49279	CZ	PHE	Q	71	120.984	81.798	-27.662	1.00	66.59	QS17
ATOM	49280	C	PHE	Q	71	118.015	78.638	-32.547	1.00	67.43	QS17
ATOM	49281	O	PHE	Q	71	118.512	77.933	-33.428	1.00	67.43	QS17
ATOM	49282	N	ARG	Q	72	116.845	79.245	-32.689	1.00	68.60	QS17
ATOM	49283	CA	ARG	Q	72	116.095	79.119	-33.924	1.00	68.60	QS17
ATOM	49284	CB	ARG	Q	72	114.690	78.609	-33.632	1.00	69.65	QS17
ATOM	49285	CG	ARG	Q	72	114.662	77.173	-33.116	1.00	69.65	QS17
ATOM	49286	CD	ARG	Q	72	113.253	76.757	-32.716	1.00	69.65	QS17
ATOM	49287	NE	ARG	Q	72	112.803	77.587	-31.609	1.00	69.65	QS17
ATOM	49288	CZ	ARG	Q	72	111.541	77.708	-31.223	1.00	69.65	QS17
ATOM	49289	NH1	ARG	Q	72	110.584	77.037	-31.862	1.00	69.65	QS17
ATOM	49290	NH2	ARG	Q	72	111.247	78.514	-30.205	1.00	69.65	QS17
ATOM	49291	C	ARG	Q	72	116.031	80.466	-34.617	1.00	68.60	QS17
ATOM	49292	O	ARG	Q	72	116.155	81.515	-33.971	1.00	68.60	QS17
ATOM	49293	N	VAL	Q	73	115.860	80.437	-35.936	1.00	74.62	QS17
ATOM	49294	CA	VAL	Q	73	115.777	81.665	-36.707	1.00	74.62	QS17
ATOM	49295	CB	VAL	Q	73	116.032	81.433	-38.188	1.00	198.84	QS17
ATOM	49296	CG1	VAL	Q	73	116.393	82.726	-38.838	1.00	46.37	QS17
ATOM	49297	CG2	VAL	Q	73	117.126	80.448	-38.374	1.00	46.37	QS17
ATOM	49298	C	VAL	Q	73	114.367	82.187	-36.554	1.00	74.62	QS17
ATOM	49299	O	VAL	Q	73	113.455	81.770	-37.269	1.00	74.62	QS17
ATOM	49300	N	LEU	Q	74	114.195	83.102	-35.608	1.00	82.19	QS17
ATOM	49301	CA	LEU	Q	74	112.901	83.697	-35.315	1.00	82.19	QS17
ATOM	49302	CB	LEU	Q	74	113.064	84.739	-34.228	1.00	54.68	QS17
ATOM	49303	CG	LEU	Q	74	111.784	85.224	-33.574	1.00	54.68	QS17
ATOM	49304	CD1	LEU	Q	74	112.142	86.165	-32.431	1.00	54.68	QS17
ATOM	49305	CD2	LEU	Q	74	110.907	85.912	-34.614	1.00	54.68	QS17
ATOM	49306	C	LEU	Q	74	112.279	84.346	-36.533	1.00	82.19	QS17
ATOM	49307	O	LEU	Q	74	111.240	83.899	-37.020	1.00	82.19	QS17
ATOM	49308	N	ARG	Q	75	112.902	85.422	-37.003	1.00	84.51	QS17
ATOM	49309	CA	ARG	Q	75	112.404	86.127	-38.173	1.00	84.51	QS17
ATOM	49310	CB	ARG	Q	75	111.348	87.142	-37.769	1.00	89.36	QS17
ATOM	49311	CG	ARG	Q	75	111.904	88.332	-37.054	1.00	89.36	QS17
ATOM	49312	CD	ARG	Q	75	110.795	89.292	-36.718	1.00	89.36	QS17
ATOM	49313	NE	ARG	Q	75	111.311	90.537	-36.160	1.00	89.36	QS17
ATOM	49314	CZ	ARG	Q	75	111.920	91.485	-36.871	1.00	89.36	QS17
ATOM	49315	NH1	ARG	Q	75	112.088	91.336	-38.181	1.00	89.36	QS17
ATOM	49316	NH2	ARG	Q	75	112.372	92.579	-36.267	1.00	89.36	QS17
ATOM	49317	C	ARG	Q	75	113.518	86.842	-38.910	1.00	84.51	QS17
ATOM	49318	O	ARG	Q	75	114.600	87.060	-38.371	1.00	84.51	QS17
ATOM	49319	N	LEU	Q	76	113.237	87.210	-40.152	1.00	80.55	QS17
ATOM	49320	CA	LEU	Q	76	114.198	87.906	-40.989	1.00	80.55	QS17
ATOM	49321	CB	LEU	Q	76	113.903	87.597	-42.457	1.00	68.28	QS17
ATOM	49322	CG	LEU	Q	76	114.809	88.186	-43.535	1.00	68.28	QS17
ATOM	49323	CD1	LEU	Q	76	114.513	87.522	-44.874	1.00	68.28	QS17
ATOM	49324	CD2	LEU	Q	76	114.587	89.688	-43.617	1.00	68.28	QS17
ATOM	49325	C	LEU	Q	76	114.058	89.395	-40.718	1.00	80.55	QS17
ATOM	49326	O	LEU	Q	76	112.956	89.869	-40.488	1.00	80.55	QS17
ATOM	49327	N	VAL	Q	77	115.167	90.129	-40.736	1.00	92.76	QS17
ATOM	49328	CA	VAL	Q	77	115.121	91.569	-40.490	1.00	92.76	QS17
ATOM	49329	CB	VAL	Q	77	116.251	92.020	-39.582	1.00	64.79	QS17
ATOM	49330	CG1	VAL	Q	77	116.013	93.453	-39.156	1.00	64.79	QS17
ATOM	49331	CG2	VAL	Q	77	116.332	91.105	-38.382	1.00	64.79	QS17
ATOM	49332	C	VAL	Q	77	115.237	92.321	-41.802	1.00	92.76	QS17
ATOM	49333	O	VAL	Q	77	114.307	93.008	-42.214	1.00	92.76	QS17

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ATOM	49334	N	GLU	Q	78	116.396	92.221	-42.442	1.00	90.93	QS17
ATOM	49335	CA	GLU	Q	78	116.592	92.847	-43.740	1.00	90.93	QS17
ATOM	49336	CB	GLU	Q	78	117.343	94.181	-43.634	1.00	110.28	QS17
ATOM	49337	CG	GLU	Q	78	118.783	94.119	-43.176	1.00	110.28	QS17
ATOM	49338	CD	GLU	Q	78	119.581	95.335	-43.642	1.00	110.28	QS17
ATOM	49339	OE1	GLU	Q	78	119.785	95.473	-44.868	1.00	110.28	QS17
ATOM	49340	OE2	GLU	Q	78	119.998	96.153	-42.792	1.00	110.28	QS17
ATOM	49341	C	GLU	Q	78	117.368	91.830	-44.561	1.00	90.93	QS17
ATOM	49342	O	GLU	Q	78	118.354	91.262	-44.093	1.00	90.93	QS17
ATOM	49343	N	SER	Q	79	116.893	91.573	-45.775	1.00	85.06	QS17
ATOM	49344	CA	SER	Q	79	117.518	90.591	-46.654	1.00	85.06	QS17
ATOM	49345	CB	SER	Q	79	116.559	90.223	-47.796	1.00	118.10	QS17
ATOM	49346	OG	SER	Q	79	117.121	89.245	-48.658	1.00	118.10	QS17
ATOM	49347	C	SER	Q	79	118.823	91.090	-47.233	1.00	85.06	QS17
ATOM	49348	O	SER	Q	79	119.112	92.283	-47.184	1.00	85.06	QS17
ATOM	49349	N	GLY	Q	80	119.596	90.153	-47.776	1.00	124.41	QS17
ATOM	49350	CA	GLY	Q	80	120.871	90.448	-48.405	1.00	124.41	QS17
ATOM	49351	C	GLY	Q	80	121.702	91.640	-47.958	1.00	124.41	QS17
ATOM	49352	O	GLY	Q	80	121.193	92.713	-47.632	1.00	124.41	QS17
ATOM	49353	N	ARG	Q	81	123.013	91.430	-47.963	1.00	99.48	QS17
ATOM	49354	CA	ARG	Q	81	123.994	92.441	-47.596	1.00	99.48	QS17
ATOM	49355	CB	ARG	Q	81	123.500	93.293	-46.441	1.00	79.86	QS17
ATOM	49356	CG	ARG	Q	81	123.178	92.543	-45.211	1.00	79.86	QS17
ATOM	49357	CD	ARG	Q	81	122.983	93.580	-44.182	1.00	79.86	QS17
ATOM	49358	NE	ARG	Q	81	124.152	94.447	-44.148	1.00	79.86	QS17
ATOM	49359	CZ	ARG	Q	81	124.114	95.728	-43.805	1.00	79.86	QS17
ATOM	49360	NH1	ARG	Q	81	122.957	96.293	-43.477	1.00	79.86	QS17
ATOM	49361	NH2	ARG	Q	81	125.233	96.437	-43.764	1.00	79.86	QS17
ATOM	49362	C	ARG	Q	81	125.300	91.758	-47.232	1.00	99.48	QS17
ATOM	49363	O	ARG	Q	81	125.686	91.659	-46.061	1.00	99.48	QS17
ATOM	49364	N	MET	Q	82	125.964	91.287	-48.280	1.00	80.20	QS17
ATOM	49365	CA	MET	Q	82	127.233	90.590	-48.178	1.00	80.20	QS17
ATOM	49366	CB	MET	Q	82	127.653	90.087	-49.564	1.00	124.20	QS17
ATOM	49367	CG	MET	Q	82	126.526	89.447	-50.360	1.00	124.20	QS17
ATOM	49368	SD	MET	Q	82	125.626	88.219	-49.400	1.00	124.20	QS17
ATOM	49369	CE	MET	Q	82	126.810	86.845	-49.424	1.00	124.20	QS17
ATOM	49370	C	MET	Q	82	128.330	91.484	-47.607	1.00	80.20	QS17
ATOM	49371	O	MET	Q	82	129.373	90.996	-47.167	1.00	80.20	QS17
ATOM	49372	N	ASP	Q	83	128.096	92.791	-47.631	1.00	85.43	QS17
ATOM	49373	CA	ASP	Q	83	129.069	93.732	-47.109	1.00	85.43	QS17
ATOM	49374	CB	ASP	Q	83	128.428	95.117	-46.964	1.00	126.38	QS17
ATOM	49375	CG	ASP	Q	83	127.277	95.131	-45.978	1.00	126.38	QS17
ATOM	49376	OD1	ASP	Q	83	126.384	94.261	-46.070	1.00	126.38	QS17
ATOM	49377	OD2	ASP	Q	83	127.261	96.023	-45.110	1.00	126.38	QS17
ATOM	49378	C	ASP	Q	83	129.585	93.216	-45.764	1.00	85.43	QS17
ATOM	49379	O	ASP	Q	83	130.773	93.327	-45.463	1.00	85.43	QS17
ATOM	49380	N	LEU	Q	84	128.691	92.622	-44.975	1.00	85.86	QS17
ATOM	49381	CA	LEU	Q	84	129.050	92.076	-43.669	1.00	85.86	QS17
ATOM	49382	CB	LEU	Q	84	127.816	91.973	-42.794	1.00	66.78	QS17
ATOM	49383	CG	LEU	Q	84	127.401	93.355	-42.306	1.00	66.78	QS17
ATOM	49384	CD1	LEU	Q	84	126.046	93.300	-41.587	1.00	66.78	QS17
ATOM	49385	CD2	LEU	Q	84	128.513	93.882	-41.397	1.00	66.78	QS17
ATOM	49386	C	LEU	Q	84	129.704	90.715	-43.776	1.00	85.86	QS17
ATOM	49387	O	LEU	Q	84	130.729	90.461	-43.148	1.00	85.86	QS17
ATOM	49388	N	VAL	Q	85	129.104	89.834	-44.565	1.00	63.38	QS17
ATOM	49389	CA	VAL	Q	85	129.667	88.508	-44.753	1.00	63.38	QS17
ATOM	49390	CB	VAL	Q	85	128.824	87.706	-45.748	1.00	75.48	QS17
ATOM	49391	CG1	VAL	Q	85	129.210	86.242	-45.698	1.00	75.48	QS17
ATOM	49392	CG2	VAL	Q	85	127.359	87.884	-45.421	1.00	75.48	QS17
ATOM	49393	C	VAL	Q	85	131.111	88.624	-45.274	1.00	63.38	QS17
ATOM	49394	O	VAL	Q	85	131.962	87.771	-44.999	1.00	63.38	QS17
ATOM	49395	N	GLU	Q	86	131.385	89.689	-46.026	1.00	82.84	QS17
ATOM	49396	CA	GLU	Q	86	132.722	89.913	-46.561	1.00	82.84	QS17
ATOM	49397	CB	GLU	Q	86	132.746	91.158	-47.440	1.00	151.45	QS17
ATOM	49398	CG	GLU	Q	86	132.140	90.894	-48.784	1.00	151.45	QS17
ATOM	49399	CD	GLU	Q	86	132.615	89.567	-49.337	1.00	151.45	QS17
ATOM	49400	OE1	GLU	Q	86	133.840	89.412	-49.524	1.00	151.45	QS17
ATOM	49401	OE2	GLU	Q	86	131.768	88.677	-49.570	1.00	151.45	QS17
ATOM	49402	C	GLU	Q	86	133.708	90.063	-45.429	1.00	82.84	QS17
ATOM	49403	O	GLU	Q	86	134.717	89.361	-45.379	1.00	82.84	QS17
ATOM	49404	N	LYS	Q	87	133.414	90.985	-44.519	1.00	83.56	QS17
ATOM	49405	CA	LYS	Q	87	134.282	91.202	-43.380	1.00	83.56	QS17
ATOM	49406	CB	LYS	Q	87	133.604	92.089	-42.334	1.00	117.49	QS17
ATOM	49407	CG	LYS	Q	87	133.473	93.541	-42.756	1.00	117.49	QS17
ATOM	49408	CD	LYS	Q	87	132.674	94.354	-41.745	1.00	117.49	QS17
ATOM	49409	CE	LYS	Q	87	132.500	95.797	-42.221	1.00	117.49	QS17
ATOM	49410	NZ	LYS	Q	87	131.520	96.560	-41.394	1.00	117.49	QS17

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ATOM	49411	C	LYS	Q	87	134.571	89.839	-42.791	1.00	83.56	QS17
ATOM	49412	O	LYS	Q	87	135.722	89.433	-42.701	1.00	83.56	QS17
ATOM	49413	N	TYR	Q	88	133.525	89.114	-42.419	1.00	77.38	QS17
ATOM	49414	CA	TYR	Q	88	133.730	87.800	-41.842	1.00	77.38	QS17
ATOM	49415	CB	TYR	Q	88	132.400	87.084	-41.635	1.00	67.28	QS17
ATOM	49416	CG	TYR	Q	88	132.566	85.642	-41.218	1.00	67.28	QS17
ATOM	49417	CD1	TYR	Q	88	133.218	85.305	-40.028	1.00	67.28	QS17
ATOM	49418	CE1	TYR	Q	88	133.379	83.965	-39.643	1.00	67.28	QS17
ATOM	49419	CD2	TYR	Q	88	132.081	84.613	-42.016	1.00	67.28	QS17
ATOM	49420	CE2	TYR	Q	88	132.233	83.283	-41.650	1.00	67.28	QS17
ATOM	49421	CZ	TYR	Q	88	132.880	82.958	-40.463	1.00	67.28	QS17
ATOM	49422	OH	TYR	Q	88	133.011	81.628	-40.114	1.00	67.28	QS17
ATOM	49423	C	TYR	Q	88	134.631	86.951	-42.731	1.00	77.38	QS17
ATOM	49424	O	TYR	Q	88	135.712	86.535	-42.312	1.00	77.38	QS17
ATOM	49425	N	LEU	Q	89	134.196	86.709	-43.964	1.00	71.95	QS17
ATOM	49426	CA	LEU	Q	89	134.971	85.889	-44.897	1.00	71.95	QS17
ATOM	49427	CB	LEU	Q	89	134.304	85.884	-46.270	1.00	82.45	QS17
ATOM	49428	CG	LEU	Q	89	133.006	85.084	-46.336	1.00	82.45	QS17
ATOM	49429	CD1	LEU	Q	89	132.550	84.984	-47.776	1.00	82.45	QS17
ATOM	49430	CD2	LEU	Q	89	133.237	83.693	-45.767	1.00	82.45	QS17
ATOM	49431	C	LEU	Q	89	136.429	86.301	-45.049	1.00	71.95	QS17
ATOM	49432	O	LEU	Q	89	137.338	85.482	-44.906	1.00	71.95	QS17
ATOM	49433	N	ILE	Q	90	136.644	87.574	-45.346	1.00	67.79	QS17
ATOM	49434	CA	ILE	Q	90	137.988	88.097	-45.518	1.00	67.79	QS17
ATOM	49435	CB	ILE	Q	90	137.939	89.609	-45.796	1.00	65.04	QS17
ATOM	49436	CG2	ILE	Q	90	139.324	90.203	-45.735	1.00	65.04	QS17
ATOM	49437	CG1	ILE	Q	90	137.315	89.837	-47.171	1.00	65.04	QS17
ATOM	49438	CD1	ILE	Q	90	137.197	91.295	-47.573	1.00	65.04	QS17
ATOM	49439	C	ILE	Q	90	138.884	87.819	-44.312	1.00	67.79	QS17
ATOM	49440	O	ILE	Q	90	140.025	87.386	-44.476	1.00	67.79	QS17
ATOM	49441	N	ARG	Q	91	138.359	88.049	-43.108	1.00	77.27	QS17
ATOM	49442	CA	ARG	Q	91	139.123	87.842	-41.876	1.00	77.27	QS17
ATOM	49443	CB	ARG	Q	91	138.304	88.247	-40.650	1.00	131.68	QS17
ATOM	49444	CG	ARG	Q	91	139.150	88.476	-39.402	1.00	131.68	QS17
ATOM	49445	CD	ARG	Q	91	138.337	88.278	-38.138	1.00	131.68	QS17
ATOM	49446	NE	ARG	Q	91	137.026	88.908	-38.244	1.00	131.68	QS17
ATOM	49447	CZ	ARG	Q	91	136.030	88.707	-37.389	1.00	131.68	QS17
ATOM	49448	NH1	ARG	Q	91	136.191	87.890	-36.352	1.00	131.68	QS17
ATOM	49449	NH2	ARG	Q	91	134.865	89.313	-37.583	1.00	131.68	QS17
ATOM	49450	C	ARG	Q	91	139.554	86.393	-41.728	1.00	77.27	QS17
ATOM	49451	O	ARG	Q	91	140.634	86.108	-41.210	1.00	77.27	QS17
ATOM	49452	N	ARG	Q	92	138.701	85.480	-42.177	1.00	82.97	QS17
ATOM	49453	CA	ARG	Q	92	139.007	84.055	-42.105	1.00	82.97	QS17
ATOM	49454	CB	ARG	Q	92	137.759	83.240	-42.461	1.00	140.39	QS17
ATOM	49455	CG	ARG	Q	92	137.840	81.767	-42.102	1.00	140.39	QS17
ATOM	49456	CD	ARG	Q	92	136.983	80.945	-43.044	1.00	140.39	QS17
ATOM	49457	NE	ARG	Q	92	135.576	81.323	-42.997	1.00	140.39	QS17
ATOM	49458	CZ	ARG	Q	92	134.706	81.056	-43.964	1.00	140.39	QS17
ATOM	49459	NH1	ARG	Q	92	135.103	80.415	-45.056	1.00	140.39	QS17
ATOM	49460	NH2	ARG	Q	92	133.439	81.421	-43.838	1.00	140.39	QS17
ATOM	49461	C	ARG	Q	92	140.126	83.775	-43.117	1.00	82.97	QS17
ATOM	49462	O	ARG	Q	92	141.095	83.059	-42.839	1.00	82.97	QS17
ATOM	49463	N	GLN	Q	93	139.973	84.366	-44.295	1.00	83.29	QS17
ATOM	49464	CA	GLN	Q	93	140.928	84.230	-45.376	1.00	83.29	QS17
ATOM	49465	CB	GLN	Q	93	140.440	85.057	-46.552	1.00	126.73	QS17
ATOM	49466	CG	GLN	Q	93	141.006	84.649	-47.872	1.00	126.73	QS17
ATOM	49467	CD	GLN	Q	93	140.453	85.491	-48.992	1.00	126.73	QS17
ATOM	49468	OE1	GLN	Q	93	139.242	85.706	-49.085	1.00	126.73	QS17
ATOM	49469	NE2	GLN	Q	93	141.334	85.971	-49.856	1.00	126.73	QS17
ATOM	49470	C	GLN	Q	93	142.334	84.692	-44.956	1.00	83.29	QS17
ATOM	49471	O	GLN	Q	93	143.333	84.281	-45.552	1.00	83.29	QS17
ATOM	49472	N	ASN	Q	94	142.410	85.553	-43.941	1.00	62.92	QS17
ATOM	49473	CA	ASN	Q	94	143.693	86.058	-43.461	1.00	62.92	QS17
ATOM	49474	CB	ASN	Q	94	143.528	87.324	-42.619	1.00	78.21	QS17
ATOM	49475	CG	ASN	Q	94	143.183	88.551	-43.449	1.00	78.21	QS17
ATOM	49476	OD1	ASN	Q	94	143.499	88.631	-44.640	1.00	78.21	QS17
ATOM	49477	ND2	ASN	Q	94	142.547	89.528	-42.812	1.00	78.21	QS17
ATOM	49478	C	ASN	Q	94	144.366	85.017	-42.606	1.00	62.92	QS17
ATOM	49479	O	ASN	Q	94	145.578	84.854	-42.658	1.00	62.92	QS17
ATOM	49480	N	TYR	Q	95	143.573	84.321	-41.804	1.00	95.47	QS17
ATOM	49481	CA	TYR	Q	95	144.093	83.282	-40.920	1.00	95.47	QS17
ATOM	49482	CB	TYR	Q	95	142.923	82.462	-40.346	1.00	108.75	QS17
ATOM	49483	CG	TYR	Q	95	142.134	83.214	-39.295	1.00	108.75	QS17
ATOM	49484	CD1	TYR	Q	95	142.394	84.569	-39.050	1.00	108.75	QS17
ATOM	49485	CE1	TYR	Q	95	141.718	85.274	-38.068	1.00	108.75	QS17
ATOM	49486	CD2	TYR	Q	95	141.161	82.578	-38.523	1.00	108.75	QS17
ATOM	49487	CE2	TYR	Q	95	140.472	83.277	-37.527	1.00	108.75	QS17

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ATOM	49488	CZ	TYR	Q	95	140.762	84.630	-37.307	1.00108.75	QS17
ATOM	49489	OH	TYR	Q	95	140.115	85.358	-36.332	1.00108.75	QS17
ATOM	49490	C	TYR	Q	95	145.070	82.380	-41.661	1.00 95.47	QS17
ATOM	49491	O	TYR	Q	95	146.150	82.057	-41.163	1.00 95.47	QS17
ATOM	49492	N	GLN	Q	96	144.675	81.996	-42.868	1.00131.92	QS17
ATOM	49493	CA	GLN	Q	96	145.473	81.132	-43.718	1.00131.92	QS17
ATOM	49494	CB	GLN	Q	96	144.723	80.931	-45.040	1.00198.84	QS17
ATOM	49495	CG	GLN	Q	96	145.527	80.364	-46.181	1.00198.84	QS17
ATOM	49496	CD	GLN	Q	96	146.411	81.409	-46.817	1.00198.84	QS17
ATOM	49497	OE1	GLN	Q	96	145.951	82.501	-47.158	1.00198.84	QS17
ATOM	49498	NE2	GLN	Q	96	147.687	81.084	-46.984	1.00198.84	QS17
ATOM	49499	C	GLN	Q	96	146.878	81.693	-43.942	1.00131.92	QS17
ATOM	49500	O	GLN	Q	96	147.769	80.986	-44.409	1.00131.92	QS17
ATOM	49501	N	SER	Q	97	147.082	82.955	-43.576	1.00110.55	QS17
ATOM	49502	CA	SER	Q	97	148.380	83.598	-43.753	1.00110.55	QS17
ATOM	49503	CB	SER	Q	97	148.187	85.083	-44.092	1.00 89.42	QS17
ATOM	49504	OG	SER	Q	97	148.118	85.903	-42.938	1.00 89.42	QS17
ATOM	49505	C	SER	Q	97	149.300	83.461	-42.538	1.00110.55	QS17
ATOM	49506	O	SER	Q	97	150.211	82.634	-42.536	1.00110.55	QS17
ATOM	49507	N	LEU	Q	98	149.048	84.276	-41.515	1.00107.99	QS17
ATOM	49508	CA	LEU	Q	98	149.831	84.304	-40.275	1.00107.99	QS17
ATOM	49509	CB	LEU	Q	98	149.196	85.316	-39.302	1.00 75.27	QS17
ATOM	49510	CG	LEU	Q	98	147.665	85.489	-39.322	1.00 75.27	QS17
ATOM	49511	CD1	LEU	Q	98	146.981	84.375	-38.557	1.00 75.27	QS17
ATOM	49512	CD2	LEU	Q	98	147.294	86.821	-38.700	1.00 75.27	QS17
ATOM	49513	C	LEU	Q	98	150.063	82.966	-39.554	1.00107.99	QS17
ATOM	49514	O	LEU	Q	98	149.347	82.638	-38.612	1.00107.99	QS17
ATOM	49515	N	SER	Q	99	151.081	82.214	-39.981	1.00106.50	QS17
ATOM	49516	CA	SER	Q	99	151.409	80.918	-39.372	1.00106.50	QS17
ATOM	49517	CB	SER	Q	99	150.536	79.827	-39.987	1.00 99.19	QS17
ATOM	49518	OG	SER	Q	99	150.609	79.879	-41.398	1.00 99.19	QS17
ATOM	49519	C	SER	Q	99	152.895	80.551	-39.532	1.00106.50	QS17
ATOM	49520	O	SER	Q	99	153.688	80.721	-38.599	1.00106.50	QS17
ATOM	49521	N	LYS	Q	100	153.254	80.022	-40.706	1.00198.53	QS17
ATOM	49522	CA	LYS	Q	100	154.638	79.650	-41.041	1.00198.53	QS17
ATOM	49523	CB	LYS	Q	100	154.799	78.121	-41.193	1.00 88.05	QS17
ATOM	49524	CG	LYS	Q	100	154.864	77.320	-39.877	1.00 88.05	QS17
ATOM	49525	CD	LYS	Q	100	155.026	75.800	-40.149	1.00 88.05	QS17
ATOM	49526	CE	LYS	Q	100	154.921	74.901	-38.882	1.00 88.05	QS17
ATOM	49527	NZ	LYS	Q	100	156.058	74.936	-37.898	1.00 88.05	QS17
ATOM	49528	C	LYS	Q	100	155.010	80.336	-42.363	1.00198.53	QS17
ATOM	49529	O	LYS	Q	100	156.108	80.144	-42.892	1.00198.53	QS17
ATOM	49530	N	ARG	Q	101	154.076	81.138	-42.879	1.00196.53	QS17
ATOM	49531	CA	ARG	Q	101	154.245	81.880	-44.131	1.00196.53	QS17
ATOM	49532	CB	ARG	Q	101	153.433	81.228	-45.255	1.00160.33	QS17
ATOM	49533	CG	ARG	Q	101	154.150	80.164	-46.059	1.00160.33	QS17
ATOM	49534	CD	ARG	Q	101	155.298	80.735	-46.891	1.00160.33	QS17
ATOM	49535	NE	ARG	Q	101	156.550	80.809	-46.140	1.00160.33	QS17
ATOM	49536	CZ	ARG	Q	101	157.738	81.055	-46.685	1.00160.33	QS17
ATOM	49537	NH1	ARG	Q	101	157.845	81.257	-47.992	1.00160.33	QS17
ATOM	49538	NH2	ARG	Q	101	158.824	81.085	-45.924	1.00160.33	QS17
ATOM	49539	C	ARG	Q	101	153.788	83.334	-44.008	1.00196.53	QS17
ATOM	49540	O	ARG	Q	101	154.590	84.246	-43.796	1.00196.53	QS17
ATOM	49541	N	GLY	Q	102	152.480	83.529	-44.152	1.00198.84	QS17
ATOM	49542	CA	GLY	Q	102	151.888	84.853	-44.090	1.00198.84	QS17
ATOM	49543	C	GLY	Q	102	151.020	85.035	-45.324	1.00198.84	QS17
ATOM	49544	O	GLY	Q	102	150.903	84.105	-46.121	1.00198.84	QS17
ATOM	49545	N	GLY	Q	103	150.408	86.206	-45.499	1.00198.84	QS17
ATOM	49546	CA	GLY	Q	103	149.573	86.406	-46.673	1.00198.84	QS17
ATOM	49547	C	GLY	Q	103	148.899	87.751	-46.912	1.00198.84	QS17
ATOM	49548	O	GLY	Q	103	148.373	88.388	-45.999	1.00198.84	QS17
ATOM	49549	N	LYS	Q	104	148.931	88.162	-48.176	1.00198.84	QS17
ATOM	49550	CA	LYS	Q	104	148.335	89.394	-48.697	1.00198.84	QS17
ATOM	49551	CB	LYS	Q	104	146.971	89.055	-49.299	1.00164.16	QS17
ATOM	49552	CG	LYS	Q	104	147.057	88.027	-50.410	1.00164.16	QS17
ATOM	49553	CD	LYS	Q	104	148.102	88.435	-51.453	1.00164.16	QS17
ATOM	49554	CE	LYS	Q	104	149.291	87.469	-51.503	1.00164.16	QS17
ATOM	49555	NZ	LYS	Q	104	150.111	87.435	-50.259	1.00164.16	QS17
ATOM	49556	C	LYS	Q	104	148.200	90.669	-47.863	1.00198.84	QS17
ATOM	49557	O	LYS	Q	104	148.496	90.706	-46.670	1.00198.84	QS17
ATOM	49558	N	ALA	Q	105	147.741	91.716	-48.547	1.00198.84	QS17
ATOM	49559	CA	ALA	Q	105	147.524	93.050	-47.989	1.00198.84	QS17
ATOM	49560	CB	ALA	Q	105	148.666	93.444	-47.083	1.00156.58	QS17
ATOM	49561	C	ALA	Q	105	147.413	94.052	-49.139	1.00198.84	QS17
ATOM	49562	O	ALA	Q	105	148.371	94.837	-49.334	1.00198.84	QS17
ATOM	49563	OXT	ALA	Q	105	146.378	94.036	-49.840	1.00198.84	QS17
TER	49563		ALA	Q	105					QS17

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ATOM	49564	CB	PRO	R	16	189.113	141.466	-53.536	1.00184.03	RS18
ATOM	49565	CG	PRO	R	16	190.472	141.299	-54.220	1.00184.03	RS18
ATOM	49566	C	PRO	R	16	187.918	139.296	-53.976	1.00181.12	RS18
ATOM	49567	O	PRO	R	16	186.817	138.899	-53.588	1.00181.12	RS18
ATOM	49568	N	PRO	R	16	190.169	139.396	-52.875	1.00181.12	RS18
ATOM	49569	CD	PRO	R	16	191.236	140.309	-53.324	1.00184.03	RS18
ATOM	49570	CA	PRO	R	16	188.849	140.052	-53.027	1.00181.12	RS18
ATOM	49571	N	SER	R	17	188.376	139.106	-55.214	1.00198.84	RS18
ATOM	49572	CA	SER	R	17	187.623	138.409	-56.259	1.00198.84	RS18
ATOM	49573	CB	SER	R	17	186.857	137.218	-55.669	1.00175.36	RS18
ATOM	49574	OG	SER	R	17	186.054	136.587	-56.651	1.00175.36	RS18
ATOM	49575	C	SER	R	17	186.650	139.343	-56.979	1.00198.84	RS18
ATOM	49576	O	SER	R	17	185.863	138.906	-57.823	1.00198.84	RS18
ATOM	49577	N	ARG	R	18	186.714	140.629	-56.643	1.00198.84	RS18
ATOM	49578	CA	ARG	R	18	185.844	141.637	-57.248	1.00198.84	RS18
ATOM	49579	CB	ARG	R	18	185.459	142.697	-56.207	1.00173.86	RS18
ATOM	49580	CG	ARG	R	18	184.699	142.168	-54.993	1.00173.86	RS18
ATOM	49581	CD	ARG	R	18	183.291	141.717	-55.349	1.00173.86	RS18
ATOM	49582	NE	ARG	R	18	182.557	141.262	-54.172	1.00173.86	RS18
ATOM	49583	CZ	ARG	R	18	181.294	140.847	-54.190	1.00173.86	RS18
ATOM	49584	NH1	ARG	R	18	180.613	140.826	-55.328	1.00173.86	RS18
ATOM	49585	NH2	ARG	R	18	180.710	140.452	-53.067	1.00173.86	RS18
ATOM	49586	C	ARG	R	18	186.535	142.312	-58.436	1.00198.84	RS18
ATOM	49587	O	ARG	R	18	186.748	143.525	-58.442	1.00198.84	RS18
ATOM	49588	N	LYS	R	19	186.881	141.513	-59.439	1.00140.87	RS18
ATOM	49589	CA	LYS	R	19	187.547	142.011	-60.637	1.00140.87	RS18
ATOM	49590	CB	LYS	R	19	188.470	140.925	-61.189	1.00142.85	RS18
ATOM	49591	CG	LYS	R	19	189.144	140.094	-60.097	1.00142.85	RS18
ATOM	49592	CD	LYS	R	19	189.715	138.789	-60.643	1.00142.85	RS18
ATOM	49593	CE	LYS	R	19	190.195	137.882	-59.515	1.00142.85	RS18
ATOM	49594	NZ	LYS	R	19	190.678	136.562	-60.016	1.00142.85	RS18
ATOM	49595	C	LYS	R	19	186.475	142.354	-61.670	1.00140.87	RS18
ATOM	49596	O	LYS	R	19	186.755	142.431	-62.867	1.00140.87	RS18
ATOM	49597	N	ALA	R	20	185.251	142.554	-61.177	1.00120.03	RS18
ATOM	49598	CA	ALA	R	20	184.070	142.869	-61.985	1.00120.03	RS18
ATOM	49599	CB	ALA	R	20	184.428	143.798	-63.147	1.00 86.73	RS18
ATOM	49600	C	ALA	R	20	183.453	141.578	-62.512	1.00120.03	RS18
ATOM	49601	O	ALA	R	20	184.099	140.821	-63.235	1.00120.03	RS18
ATOM	49602	N	LYS	R	21	182.202	141.331	-62.136	1.00148.93	RS18
ATOM	49603	CA	LYS	R	21	181.486	140.130	-62.557	1.00148.93	RS18
ATOM	49604	CB	LYS	R	21	180.035	140.190	-62.064	1.00122.43	RS18
ATOM	49605	CG	LYS	R	21	179.815	139.502	-60.722	1.00122.43	RS18
ATOM	49606	CD	LYS	R	21	180.859	139.920	-59.706	1.00122.43	RS18
ATOM	49607	CE	LYS	R	21	180.765	139.090	-58.443	1.00122.43	RS18
ATOM	49608	NZ	LYS	R	21	181.896	139.401	-57.528	1.00122.43	RS18
ATOM	49609	C	LYS	R	21	181.518	139.890	-64.065	1.00148.93	RS18
ATOM	49610	O	LYS	R	21	181.611	140.830	-64.855	1.00148.93	RS18
ATOM	49611	N	VAL	R	22	181.437	138.619	-64.450	1.00 82.81	RS18
ATOM	49612	CA	VAL	R	22	181.474	138.229	-65.853	1.00 82.81	RS18
ATOM	49613	CB	VAL	R	22	181.857	136.757	-66.004	1.00 82.00	RS18
ATOM	49614	CG1	VAL	R	22	182.040	136.420	-67.471	1.00 82.00	RS18
ATOM	49615	CG2	VAL	R	22	183.135	136.480	-65.234	1.00 82.00	RS18
ATOM	49616	C	VAL	R	22	180.145	138.444	-66.552	1.00 82.81	RS18
ATOM	49617	O	VAL	R	22	180.091	138.573	-67.776	1.00 82.81	RS18
ATOM	49618	N	LYS	R	23	179.070	138.467	-65.774	1.00131.25	RS18
ATOM	49619	CA	LYS	R	23	177.741	138.685	-66.323	1.00131.25	RS18
ATOM	49620	CB	LYS	R	23	176.677	138.318	-65.286	1.00119.75	RS18
ATOM	49621	CG	LYS	R	23	175.254	138.597	-65.732	1.00119.75	RS18
ATOM	49622	CD	LYS	R	23	174.285	138.436	-64.580	1.00119.75	RS18
ATOM	49623	CE	LYS	R	23	172.920	138.977	-64.943	1.00119.75	RS18
ATOM	49624	NZ	LYS	R	23	172.035	139.001	-63.754	1.00119.75	RS18
ATOM	49625	C	LYS	R	23	177.635	140.162	-66.679	1.00131.25	RS18
ATOM	49626	O	LYS	R	23	177.030	140.530	-67.688	1.00131.25	RS18
ATOM	49627	N	ALA	R	24	178.241	140.997	-65.838	1.00128.36	RS18
ATOM	49628	CA	ALA	R	24	178.244	142.442	-66.032	1.00128.36	RS18
ATOM	49629	CB	ALA	R	24	179.073	143.109	-64.943	1.00141.37	RS18
ATOM	49630	C	ALA	R	24	178.812	142.779	-67.404	1.00128.36	RS18
ATOM	49631	O	ALA	R	24	178.089	143.250	-68.285	1.00128.36	RS18
ATOM	49632	N	THR	R	25	180.114	142.543	-67.568	1.00108.38	RS18
ATOM	49633	CA	THR	R	25	180.801	142.793	-68.833	1.00108.38	RS18
ATOM	49634	CB	THR	R	25	182.331	142.599	-68.699	1.00146.04	RS18
ATOM	49635	OG1	THR	R	25	182.851	143.542	-67.754	1.00146.04	RS18
ATOM	49636	CG2	THR	R	25	183.025	142.807	-70.044	1.00146.04	RS18
ATOM	49637	C	THR	R	25	180.267	141.774	-69.824	1.00108.38	RS18
ATOM	49638	O	THR	R	25	180.927	140.773	-70.109	1.00108.38	RS18
ATOM	49639	N	LEU	R	26	179.066	142.039	-70.336	1.00113.26	RS18
ATOM	49640	CA	LEU	R	26	178.407	141.148	-71.282	1.00113.26	RS18

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ATOM	49641	CB	LEU	R	26	178.523	139.702	-70.783	1.00119.30	RS18
ATOM	49642	CG	LEU	R	26	178.000	138.534	-71.618	1.00119.30	RS18
ATOM	49643	CD1	LEU	R	26	178.510	138.632	-73.045	1.00119.30	RS18
ATOM	49644	CD2	LEU	R	26	178.455	137.235	-70.974	1.00119.30	RS18
ATOM	49645	C	LEU	R	26	176.932	141.532	-71.433	1.00113.26	RS18
ATOM	49646	O	LEU	R	26	176.256	141.851	-70.451	1.00113.26	RS18
ATOM	49647	N	GLY	R	27	176.440	141.507	-72.665	1.00104.07	RS18
ATOM	49648	CA	GLY	R	27	175.049	141.845	-72.899	1.00104.07	RS18
ATOM	49649	C	GLY	R	27	174.169	140.619	-72.757	1.00104.07	RS18
ATOM	49650	O	GLY	R	27	174.665	139.527	-72.491	1.00104.07	RS18
ATOM	49651	N	GLU	R	28	172.862	140.792	-72.934	1.00110.33	RS18
ATOM	49652	CA	GLU	R	28	171.918	139.685	-72.822	1.00110.33	RS18
ATOM	49653	CB	GLU	R	28	170.495	140.188	-73.042	1.00163.26	RS18
ATOM	49654	CG	GLU	R	28	170.264	140.916	-74.342	1.00163.26	RS18
ATOM	49655	CD	GLU	R	28	169.182	140.266	-75.170	1.00163.26	RS18
ATOM	49656	OE1	GLU	R	28	169.440	139.185	-75.740	1.00163.26	RS18
ATOM	49657	OE2	GLU	R	28	168.071	140.829	-75.242	1.00163.26	RS18
ATOM	49658	C	GLU	R	28	172.231	138.573	-73.812	1.00110.33	RS18
ATOM	49659	O	GLU	R	28	172.407	138.828	-75.002	1.00110.33	RS18
ATOM	49660	N	PHE	R	29	172.282	137.340	-73.314	1.00 89.70	RS18
ATOM	49661	CA	PHE	R	29	172.594	136.179	-74.149	1.00 89.70	RS18
ATOM	49662	CB	PHE	R	29	174.079	135.902	-74.059	1.00 92.97	RS18
ATOM	49663	CG	PHE	R	29	174.541	135.697	-72.668	1.00 92.97	RS18
ATOM	49664	CD1	PHE	R	29	174.636	134.420	-72.140	1.00 92.97	RS18
ATOM	49665	CD2	PHE	R	29	174.816	136.791	-71.856	1.00 92.97	RS18
ATOM	49666	CE1	PHE	R	29	174.999	134.234	-70.820	1.00 92.97	RS18
ATOM	49667	CE2	PHE	R	29	175.179	136.625	-70.535	1.00 92.97	RS18
ATOM	49668	CZ	PHE	R	29	175.271	135.342	-70.010	1.00 92.97	RS18
ATOM	49669	C	PHE	R	29	171.840	134.930	-73.710	1.00 89.70	RS18
ATOM	49670	O	PHE	R	29	171.529	134.770	-72.530	1.00 89.70	RS18
ATOM	49671	N	ASP	R	30	171.561	134.042	-74.662	1.00 89.06	RS18
ATOM	49672	CA	ASP	R	30	170.855	132.802	-74.359	1.00 89.06	RS18
ATOM	49673	CB	ASP	R	30	170.289	132.170	-75.642	1.00 97.26	RS18
ATOM	49674	CG	ASP	R	30	169.545	130.861	-75.381	1.00 97.26	RS18
ATOM	49675	OD1	ASP	R	30	169.146	130.628	-74.224	1.00 97.26	RS18
ATOM	49676	OD2	ASP	R	30	169.345	130.068	-76.331	1.00 97.26	RS18
ATOM	49677	C	ASP	R	30	171.829	131.850	-73.682	1.00 89.06	RS18
ATOM	49678	O	ASP	R	30	172.832	131.450	-74.269	1.00 89.06	RS18
ATOM	49679	N	LEU	R	31	171.528	131.511	-72.433	1.00 83.66	RS18
ATOM	49680	CA	LEU	R	31	172.355	130.612	-71.637	1.00 83.66	RS18
ATOM	49681	CB	LEU	R	31	172.030	130.793	-70.158	1.00 78.07	RS18
ATOM	49682	CG	LEU	R	31	172.993	131.680	-69.389	1.00 78.07	RS18
ATOM	49683	CD1	LEU	R	31	172.503	131.868	-67.966	1.00 78.07	RS18
ATOM	49684	CD2	LEU	R	31	174.368	131.021	-69.401	1.00 78.07	RS18
ATOM	49685	C	LEU	R	31	172.185	129.142	-72.007	1.00 83.66	RS18
ATOM	49686	O	LEU	R	31	172.970	128.290	-71.592	1.00 83.66	RS18
ATOM	49687	N	ARG	R	32	171.157	128.852	-72.789	1.00 84.43	RS18
ATOM	49688	CA	ARG	R	32	170.870	127.489	-73.202	1.00 84.43	RS18
ATOM	49689	CB	ARG	R	32	169.372	127.368	-73.461	1.00101.11	RS18
ATOM	49690	CG	ARG	R	32	168.834	125.965	-73.510	1.00101.11	RS18
ATOM	49691	CD	ARG	R	32	167.467	125.928	-72.843	1.00101.11	RS18
ATOM	49692	NE	ARG	R	32	167.596	125.940	-71.388	1.00101.11	RS18
ATOM	49693	CZ	ARG	R	32	166.658	126.367	-70.548	1.00101.11	RS18
ATOM	49694	NH1	ARG	R	32	165.505	126.830	-71.014	1.00101.11	RS18
ATOM	49695	NH2	ARG	R	32	166.875	126.323	-69.240	1.00101.11	RS18
ATOM	49696	C	ARG	R	32	171.670	127.141	-74.459	1.00 84.43	RS18
ATOM	49697	O	ARG	R	32	171.873	125.964	-74.770	1.00 84.43	RS18
ATOM	49698	N	ASP	R	33	172.130	128.177	-75.162	1.00107.67	RS18
ATOM	49699	CA	ASP	R	33	172.904	128.024	-76.396	1.00107.67	RS18
ATOM	49700	CB	ASP	R	33	172.961	129.353	-77.150	1.00149.06	RS18
ATOM	49701	CG	ASP	R	33	173.901	129.306	-78.337	1.00149.06	RS18
ATOM	49702	OD1	ASP	R	33	173.846	128.314	-79.096	1.00149.06	RS18
ATOM	49703	OD2	ASP	R	33	174.687	130.262	-78.512	1.00149.06	RS18
ATOM	49704	C	ASP	R	33	174.318	127.521	-76.154	1.00107.67	RS18
ATOM	49705	O	ASP	R	33	175.191	128.272	-75.712	1.00107.67	RS18
ATOM	49706	N	TYR	R	34	174.538	126.252	-76.486	1.00 92.77	RS18
ATOM	49707	CA	TYR	R	34	175.823	125.599	-76.283	1.00 92.77	RS18
ATOM	49708	CB	TYR	R	34	175.591	124.120	-76.021	1.00 92.92	RS18
ATOM	49709	CG	TYR	R	34	174.838	123.451	-77.136	1.00 92.92	RS18
ATOM	49710	CD1	TYR	R	34	175.484	123.040	-78.298	1.00 92.92	RS18
ATOM	49711	CE1	TYR	R	34	174.777	122.452	-79.343	1.00 92.92	RS18
ATOM	49712	CD2	TYR	R	34	173.466	123.258	-77.042	1.00 92.92	RS18
ATOM	49713	CE2	TYR	R	34	172.747	122.672	-78.076	1.00 92.92	RS18
ATOM	49714	CZ	TYR	R	34	173.403	122.270	-79.223	1.00 92.92	RS18
ATOM	49715	OH	TYR	R	34	172.674	121.688	-80.242	1.00 92.92	RS18
ATOM	49716	C	TYR	R	34	176.809	125.734	-77.426	1.00 92.77	RS18
ATOM	49717	O	TYR	R	34	177.620	124.836	-77.637	1.00 92.77	RS18

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ATOM	49718	N	ARG	R	35	176.762	126.837	-78.163	1.00102.30	RS18
ATOM	49719	CA	ARG	R	35	177.685	127.003	-79.280	1.00102.30	RS18
ATOM	49720	CB	ARG	R	35	176.993	126.596	-80.575	1.00 88.79	RS18
ATOM	49721	CG	ARG	R	35	176.635	125.133	-80.621	1.00 88.79	RS18
ATOM	49722	CD	ARG	R	35	176.114	124.760	-81.984	1.00 88.79	RS18
ATOM	49723	NE	ARG	R	35	174.858	125.435	-82.283	1.00 88.79	RS18
ATOM	49724	CZ	ARG	R	35	174.319	125.502	-83.495	1.00 88.79	RS18
ATOM	49725	NH1	ARG	R	35	174.934	124.937	-84.527	1.00 88.79	RS18
ATOM	49726	NH2	ARG	R	35	173.160	126.123	-83.671	1.00 88.79	RS18
ATOM	49727	C	ARG	R	35	178.271	128.404	-79.416	1.00102.30	RS18
ATOM	49728	O	ARG	R	35	179.144	128.644	-80.255	1.00102.30	RS18
ATOM	49729	N	ASN	R	36	177.790	129.323	-78.586	1.00 80.88	RS18
ATOM	49730	CA	ASN	R	36	178.264	130.702	-78.597	1.00 80.88	RS18
ATOM	49731	CB	ASN	R	36	177.277	131.583	-77.829	1.00126.72	RS18
ATOM	49732	CG	ASN	R	36	177.529	133.056	-78.037	1.00126.72	RS18
ATOM	49733	OD1	ASN	R	36	176.895	133.903	-77.407	1.00126.72	RS18
ATOM	49734	ND2	ASN	R	36	178.454	133.374	-78.930	1.00126.72	RS18
ATOM	49735	C	ASN	R	36	179.636	130.725	-77.917	1.00 80.88	RS18
ATOM	49736	O	ASN	R	36	179.855	131.465	-76.951	1.00 80.88	RS18
ATOM	49737	N	VAL	R	37	180.554	129.905	-78.433	1.00 82.92	RS18
ATOM	49738	CA	VAL	R	37	181.904	129.779	-77.883	1.00 82.92	RS18
ATOM	49739	CB	VAL	R	37	182.883	129.094	-78.872	1.00 85.56	RS18
ATOM	49740	CG1	VAL	R	37	184.171	128.724	-78.144	1.00 85.56	RS18
ATOM	49741	CG2	VAL	R	37	182.244	127.856	-79.489	1.00 85.56	RS18
ATOM	49742	C	VAL	R	37	182.496	131.121	-77.521	1.00 82.92	RS18
ATOM	49743	O	VAL	R	37	183.384	131.209	-76.680	1.00 82.92	RS18
ATOM	49744	N	GLU	R	38	182.001	132.167	-78.165	1.00 89.12	RS18
ATOM	49745	CA	GLU	R	38	182.495	133.506	-77.918	1.00 89.12	RS18
ATOM	49746	CB	GLU	R	38	181.884	134.477	-78.932	1.00185.83	RS18
ATOM	49747	CG	GLU	R	38	180.948	133.834	-79.962	1.00185.83	RS18
ATOM	49748	CD	GLU	R	38	181.640	132.860	-80.912	1.00185.83	RS18
ATOM	49749	OE1	GLU	R	38	182.121	131.798	-80.462	1.00185.83	RS18
ATOM	49750	OE2	GLU	R	38	181.696	133.157	-82.124	1.00185.83	RS18
ATOM	49751	C	GLU	R	38	182.136	133.917	-76.497	1.00 89.12	RS18
ATOM	49752	O	GLU	R	38	183.007	134.284	-75.705	1.00 89.12	RS18
ATOM	49753	N	VAL	R	39	180.849	133.819	-76.178	1.00 90.04	RS18
ATOM	49754	CA	VAL	R	39	180.334	134.190	-74.863	1.00 90.04	RS18
ATOM	49755	CB	VAL	R	39	178.796	134.391	-74.935	1.00 89.13	RS18
ATOM	49756	CG1	VAL	R	39	178.084	133.047	-74.943	1.00 89.13	RS18
ATOM	49757	CG2	VAL	R	39	178.330	135.242	-73.786	1.00 89.13	RS18
ATOM	49758	C	VAL	R	39	180.674	133.169	-73.762	1.00 90.04	RS18
ATOM	49759	O	VAL	R	39	181.137	133.542	-72.680	1.00 90.04	RS18
ATOM	49760	N	LEU	R	40	180.444	131.888	-74.043	1.00 82.96	RS18
ATOM	49761	CA	LEU	R	40	180.721	130.827	-73.081	1.00 82.96	RS18
ATOM	49762	CB	LEU	R	40	180.412	129.467	-73.700	1.00 78.84	RS18
ATOM	49763	CG	LEU	R	40	179.031	129.443	-74.351	1.00 78.84	RS18
ATOM	49764	CD1	LEU	R	40	178.681	128.039	-74.801	1.00 78.84	RS18
ATOM	49765	CD2	LEU	R	40	178.014	129.940	-73.361	1.00 78.84	RS18
ATOM	49766	C	LEU	R	40	182.174	130.870	-72.637	1.00 82.96	RS18
ATOM	49767	O	LEU	R	40	182.473	130.772	-71.447	1.00 82.96	RS18
ATOM	49768	N	LYS	R	41	183.073	131.011	-73.603	1.00100.85	RS18
ATOM	49769	CA	LYS	R	41	184.505	131.090	-73.337	1.00100.85	RS18
ATOM	49770	CB	LYS	R	41	185.200	131.724	-74.544	1.00117.56	RS18
ATOM	49771	CG	LYS	R	41	186.689	131.467	-74.678	1.00117.56	RS18
ATOM	49772	CD	LYS	R	41	187.310	132.449	-75.683	1.00117.56	RS18
ATOM	49773	CE	LYS	R	41	186.571	132.475	-77.033	1.00117.56	RS18
ATOM	49774	NZ	LYS	R	41	187.038	133.570	-77.946	1.00117.56	RS18
ATOM	49775	C	LYS	R	41	184.740	131.958	-72.095	1.00100.85	RS18
ATOM	49776	O	LYS	R	41	185.685	131.732	-71.340	1.00100.85	RS18
ATOM	49777	N	ARG	R	42	183.851	132.936	-71.902	1.00 89.59	RS18
ATOM	49778	CA	ARG	R	42	183.884	133.903	-70.791	1.00 89.59	RS18
ATOM	49779	CB	ARG	R	42	182.776	134.937	-70.998	1.00135.38	RS18
ATOM	49780	CG	ARG	R	42	183.036	135.940	-72.087	1.00135.38	RS18
ATOM	49781	CD	ARG	R	42	184.157	136.871	-71.674	1.00135.38	RS18
ATOM	49782	NE	ARG	R	42	184.116	138.119	-72.422	1.00135.38	RS18
ATOM	49783	CZ	ARG	R	42	183.067	138.933	-72.444	1.00135.38	RS18
ATOM	49784	NH1	ARG	R	42	181.974	138.626	-71.757	1.00135.38	RS18
ATOM	49785	NH2	ARG	R	42	183.107	140.053	-73.154	1.00135.38	RS18
ATOM	49786	C	ARG	R	42	183.757	133.378	-69.352	1.00 89.59	RS18
ATOM	49787	O	ARG	R	42	184.221	134.018	-68.402	1.00 89.59	RS18
ATOM	49788	N	PHE	R	43	183.118	132.227	-69.197	1.00 75.76	RS18
ATOM	49789	CA	PHE	R	43	182.893	131.655	-67.888	1.00 75.76	RS18
ATOM	49790	CB	PHE	R	43	181.482	131.079	-67.868	1.00 66.18	RS18
ATOM	49791	CG	PHE	R	43	180.424	132.105	-68.203	1.00 66.18	RS18
ATOM	49792	CD1	PHE	R	43	179.275	131.754	-68.909	1.00 66.18	RS18
ATOM	49793	CD2	PHE	R	43	180.579	133.437	-67.815	1.00 66.18	RS18
ATOM	49794	CE1	PHE	R	43	178.292	132.716	-69.226	1.00 66.18	RS18

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ATOM	49795	CE2	PHE	R	43	179.605	134.401	-68.126	1.00	66.18	RS18
ATOM	49796	CZ	PHE	R	43	178.463	134.036	-68.833	1.00	66.18	RS18
ATOM	49797	C	PHE	R	43	183.928	130.629	-67.463	1.00	75.76	RS18
ATOM	49798	O	PHE	R	43	183.771	129.983	-66.430	1.00	75.76	RS18
ATOM	49799	N	LEU	R	44	184.992	130.491	-68.248	1.00	67.15	RS18
ATOM	49800	CA	LEU	R	44	186.068	129.547	-67.935	1.00	67.15	RS18
ATOM	49801	CB	LEU	R	44	186.432	128.715	-69.160	1.00	75.52	RS18
ATOM	49802	CG	LEU	R	44	185.370	127.760	-69.690	1.00	75.52	RS18
ATOM	49803	CD1	LEU	R	44	185.927	127.039	-70.903	1.00	75.52	RS18
ATOM	49804	CD2	LEU	R	44	184.966	126.760	-68.605	1.00	75.52	RS18
ATOM	49805	C	LEU	R	44	187.290	130.330	-67.498	1.00	67.15	RS18
ATOM	49806	O	LEU	R	44	187.526	131.418	-67.999	1.00	67.15	RS18
ATOM	49807	N	SER	R	45	188.076	129.792	-66.575	1.00	83.92	RS18
ATOM	49808	CA	SER	R	45	189.255	130.520	-66.120	1.00	83.92	RS18
ATOM	49809	CB	SER	R	45	189.686	130.035	-64.735	1.00	70.94	RS18
ATOM	49810	OG	SER	R	45	190.011	128.656	-64.756	1.00	70.94	RS18
ATOM	49811	C	SER	R	45	190.409	130.349	-67.097	1.00	83.92	RS18
ATOM	49812	O	SER	R	45	190.205	129.992	-68.264	1.00	83.92	RS18
ATOM	49813	N	GLU	R	46	191.618	130.618	-66.606	1.00	114.65	RS18
ATOM	49814	CA	GLU	R	46	192.849	130.485	-67.385	1.00	114.65	RS18
ATOM	49815	CB	GLU	R	46	194.013	131.153	-66.644	1.00	174.16	RS18
ATOM	49816	CG	GLU	R	46	193.790	132.632	-66.327	1.00	174.16	RS18
ATOM	49817	CD	GLU	R	46	192.514	132.887	-65.529	1.00	174.16	RS18
ATOM	49818	OE1	GLU	R	46	192.352	132.289	-64.442	1.00	174.16	RS18
ATOM	49819	OE2	GLU	R	46	191.671	133.687	-65.988	1.00	174.16	RS18
ATOM	49820	C	GLU	R	46	193.089	128.986	-67.502	1.00	114.65	RS18
ATOM	49821	O	GLU	R	46	194.220	128.508	-67.489	1.00	114.65	RS18
ATOM	49822	N	THR	R	47	191.979	128.266	-67.602	1.00	96.02	RS18
ATOM	49823	CA	THR	R	47	191.931	126.816	-67.711	1.00	96.02	RS18
ATOM	49824	CB	THR	R	47	192.275	126.147	-66.361	1.00	68.39	RS18
ATOM	49825	OG1	THR	R	47	193.520	126.663	-65.870	1.00	68.39	RS18
ATOM	49826	CG2	THR	R	47	192.373	124.635	-66.524	1.00	68.39	RS18
ATOM	49827	C	THR	R	47	190.471	126.508	-68.077	1.00	96.02	RS18
ATOM	49828	O	THR	R	47	189.591	127.368	-67.934	1.00	96.02	RS18
ATOM	49829	N	GLY	R	48	190.204	125.295	-68.547	1.00	147.07	RS18
ATOM	49830	CA	GLY	R	48	188.844	124.955	-68.921	1.00	147.07	RS18
ATOM	49831	C	GLY	R	48	187.906	124.842	-67.735	1.00	147.07	RS18
ATOM	49832	O	GLY	R	48	186.857	124.211	-67.845	1.00	147.07	RS18
ATOM	49833	N	LYS	R	49	188.272	125.463	-66.613	1.00	76.98	RS18
ATOM	49834	CA	LYS	R	49	187.471	125.405	-65.390	1.00	76.98	RS18
ATOM	49835	CB	LYS	R	49	188.371	125.597	-64.172	1.00	89.76	RS18
ATOM	49836	CG	LYS	R	49	189.435	124.525	-64.067	1.00	89.76	RS18
ATOM	49837	CD	LYS	R	49	190.245	124.633	-62.792	1.00	89.76	RS18
ATOM	49838	CE	LYS	R	49	191.393	123.630	-62.800	1.00	89.76	RS18
ATOM	49839	NZ	LYS	R	49	192.225	123.699	-61.562	1.00	89.76	RS18
ATOM	49840	C	LYS	R	49	186.334	126.407	-65.352	1.00	76.98	RS18
ATOM	49841	O	LYS	R	49	186.535	127.596	-65.581	1.00	76.98	RS18
ATOM	49842	N	ILE	R	50	185.136	125.906	-65.068	1.00	73.50	RS18
ATOM	49843	CA	ILE	R	50	183.944	126.731	-64.992	1.00	73.50	RS18
ATOM	49844	CB	ILE	R	50	182.696	125.872	-64.856	1.00	68.98	RS18
ATOM	49845	CG2	ILE	R	50	181.485	126.760	-64.653	1.00	68.98	RS18
ATOM	49846	CG1	ILE	R	50	182.530	125.004	-66.101	1.00	68.98	RS18
ATOM	49847	CD1	ILE	R	50	181.373	124.022	-66.024	1.00	68.98	RS18
ATOM	49848	C	ILE	R	50	184.037	127.620	-63.768	1.00	73.50	RS18
ATOM	49849	O	ILE	R	50	184.135	127.123	-62.643	1.00	73.50	RS18
ATOM	49850	N	LEU	R	51	183.987	128.932	-63.980	1.00	68.66	RS18
ATOM	49851	CA	LEU	R	51	184.094	129.888	-62.880	1.00	68.66	RS18
ATOM	49852	CB	LEU	R	51	184.116	131.305	-63.447	1.00	69.17	RS18
ATOM	49853	CG	LEU	R	51	185.463	131.654	-64.087	1.00	69.17	RS18
ATOM	49854	CD1	LEU	R	51	185.238	132.466	-65.349	1.00	69.17	RS18
ATOM	49855	CD2	LEU	R	51	186.342	132.409	-63.083	1.00	69.17	RS18
ATOM	49856	C	LEU	R	51	183.029	129.762	-61.787	1.00	68.66	RS18
ATOM	49857	O	LEU	R	51	181.886	129.380	-62.049	1.00	68.66	RS18
ATOM	49858	N	PRO	R	52	183.403	130.081	-60.539	1.00	84.10	RS18
ATOM	49859	CD	PRO	R	52	184.723	130.542	-60.094	1.00	78.52	RS18
ATOM	49860	CA	PRO	R	52	182.487	130.004	-59.401	1.00	84.10	RS18
ATOM	49861	CB	PRO	R	52	183.403	130.209	-58.192	1.00	78.52	RS18
ATOM	49862	CG	PRO	R	52	184.782	129.957	-58.719	1.00	78.52	RS18
ATOM	49863	C	PRO	R	52	181.473	131.123	-59.508	1.00	84.10	RS18
ATOM	49864	O	PRO	R	52	181.747	132.146	-60.126	1.00	84.10	RS18
ATOM	49865	N	ARG	R	53	180.306	130.930	-58.911	1.00	74.23	RS18
ATOM	49866	CA	ARG	R	53	179.275	131.956	-58.935	1.00	74.23	RS18
ATOM	49867	CB	ARG	R	53	178.188	131.605	-57.915	1.00	73.60	RS18
ATOM	49868	CG	ARG	R	53	177.043	130.749	-58.421	1.00	73.60	RS18
ATOM	49869	CD	ARG	R	53	175.908	131.634	-58.920	1.00	73.60	RS18
ATOM	49870	NE	ARG	R	53	174.621	131.325	-58.291	1.00	73.60	RS18
ATOM	49871	CZ	ARG	R	53	174.337	131.505	-57.002	1.00	73.60	RS18

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ATOM	49872	NH1	ARG	R	53	175.249	131.997	-56.176	1.00	73.60	RS18
ATOM	49873	NH2	ARG	R	53	173.131	131.199	-56.541	1.00	73.60	RS18
ATOM	49874	C	ARG	R	53	179.851	133.351	-58.611	1.00	74.23	RS18
ATOM	49875	O	ARG	R	53	179.590	134.329	-59.321	1.00	74.23	RS18
ATOM	49876	N	ARG	R	54	180.641	133.436	-57.543	1.00	80.59	RS18
ATOM	49877	CA	ARG	R	54	181.223	134.708	-57.112	1.00	80.59	RS18
ATOM	49878	CB	ARG	R	54	181.863	134.547	-55.727	1.00155.00		RS18
ATOM	49879	CG	ARG	R	54	182.221	133.117	-55.364	1.00155.00		RS18
ATOM	49880	CD	ARG	R	54	183.549	132.694	-55.952	1.00155.00		RS18
ATOM	49881	NE	ARG	R	54	184.651	133.483	-55.408	1.00155.00		RS18
ATOM	49882	CZ	ARG	R	54	185.930	133.129	-55.481	1.00155.00		RS18
ATOM	49883	NH1	ARG	R	54	186.274	131.992	-56.075	1.00155.00		RS18
ATOM	49884	NH2	ARG	R	54	186.867	133.911	-54.960	1.00155.00		RS18
ATOM	49885	C	ARG	R	54	182.221	135.326	-58.081	1.00	80.59	RS18
ATOM	49886	O	ARG	R	54	183.059	136.149	-57.691	1.00	80.59	RS18
ATOM	49887	N	ARG	R	55	182.100	134.937	-59.347	1.00	70.25	RS18
ATOM	49888	CA	ARG	R	55	182.968	135.404	-60.423	1.00	70.25	RS18
ATOM	49889	CB	ARG	R	55	184.147	134.448	-60.612	1.00116.26		RS18
ATOM	49890	CG	ARG	R	55	185.156	134.467	-59.482	1.00116.26		RS18
ATOM	49891	CD	ARG	R	55	186.113	135.648	-59.577	1.00116.26		RS18
ATOM	49892	NE	ARG	R	55	187.075	135.466	-60.658	1.00116.26		RS18
ATOM	49893	CZ	ARG	R	55	186.799	135.657	-61.942	1.00116.26		RS18
ATOM	49894	NH1	ARG	R	55	185.586	136.047	-62.310	1.00116.26		RS18
ATOM	49895	NH2	ARG	R	55	187.731	135.448	-62.861	1.00116.26		RS18
ATOM	49896	C	ARG	R	55	182.134	135.408	-61.677	1.00	70.25	RS18
ATOM	49897	O	ARG	R	55	182.178	136.354	-62.446	1.00	70.25	RS18
ATOM	49898	N	THR	R	56	181.373	134.336	-61.872	1.00	76.14	RS18
ATOM	49899	CA	THR	R	56	180.510	134.207	-63.037	1.00	76.14	RS18
ATOM	49900	CB	THR	R	56	179.870	132.817	-63.145	1.00	86.36	RS18
ATOM	49901	OG1	THR	R	56	178.944	132.629	-62.068	1.00	86.36	RS18
ATOM	49902	CG2	THR	R	56	180.928	131.743	-63.091	1.00	86.36	RS18
ATOM	49903	C	THR	R	56	179.375	135.197	-62.935	1.00	76.14	RS18
ATOM	49904	O	THR	R	56	178.702	135.466	-63.932	1.00	76.14	RS18
ATOM	49905	N	GLY	R	57	179.158	135.713	-61.724	1.00	79.50	RS18
ATOM	49906	CA	GLY	R	57	178.092	136.677	-61.482	1.00	79.50	RS18
ATOM	49907	C	GLY	R	57	176.676	136.141	-61.661	1.00	79.50	RS18
ATOM	49908	O	GLY	R	57	175.693	136.859	-61.451	1.00	79.50	RS18
ATOM	49909	N	LEU	R	58	176.572	134.875	-62.048	1.00	93.02	RS18
ATOM	49910	CA	LEU	R	58	175.283	134.244	-62.267	1.00	93.02	RS18
ATOM	49911	CB	LEU	R	58	175.459	132.949	-63.054	1.00102.71		RS18
ATOM	49912	CG	LEU	R	58	175.677	133.125	-64.553	1.00102.71		RS18
ATOM	49913	CD1	LEU	R	58	175.716	131.763	-65.247	1.00102.71		RS18
ATOM	49914	CD2	LEU	R	58	174.543	133.968	-65.104	1.00102.71		RS18
ATOM	49915	C	LEU	R	58	174.499	133.954	-60.995	1.00	93.02	RS18
ATOM	49916	O	LEU	R	58	174.865	134.390	-59.900	1.00	93.02	RS18
ATOM	49917	N	SER	R	59	173.419	133.198	-61.164	1.00	62.81	RS18
ATOM	49918	CA	SER	R	59	172.536	132.844	-60.071	1.00	62.81	RS18
ATOM	49919	CB	SER	R	59	171.186	133.523	-60.264	1.00	74.36	RS18
ATOM	49920	OG	SER	R	59	170.470	132.883	-61.303	1.00	74.36	RS18
ATOM	49921	C	SER	R	59	172.328	131.333	-60.021	1.00	62.81	RS18
ATOM	49922	O	SER	R	59	172.560	130.638	-61.008	1.00	62.81	RS18
ATOM	49923	N	GLY	R	60	171.876	130.842	-58.867	1.00	66.21	RS18
ATOM	49924	CA	GLY	R	60	171.643	129.425	-58.691	1.00	66.21	RS18
ATOM	49925	C	GLY	R	60	171.117	128.764	-59.948	1.00	66.21	RS18
ATOM	49926	O	GLY	R	60	171.771	127.888	-60.518	1.00	66.21	RS18
ATOM	49927	N	LYS	R	61	169.940	129.187	-60.400	1.00	82.75	RS18
ATOM	49928	CA	LYS	R	61	169.358	128.586	-61.591	1.00	82.75	RS18
ATOM	49929	CB	LYS	R	61	167.949	129.124	-61.834	1.00	90.46	RS18
ATOM	49930	CG	LYS	R	61	167.184	128.373	-62.907	1.00	90.46	RS18
ATOM	49931	CD	LYS	R	61	165.759	128.904	-63.034	1.00	90.46	RS18
ATOM	49932	CE	LYS	R	61	165.025	128.263	-64.205	1.00	90.46	RS18
ATOM	49933	NZ	LYS	R	61	163.657	128.819	-64.388	1.00	90.46	RS18
ATOM	49934	C	LYS	R	61	170.236	128.838	-62.804	1.00	82.75	RS18
ATOM	49935	O	LYS	R	61	170.665	127.889	-63.452	1.00	82.75	RS18
ATOM	49936	N	GLU	R	62	170.511	130.108	-63.101	1.00	84.54	RS18
ATOM	49937	CA	GLU	R	62	171.353	130.457	-64.243	1.00	84.54	RS18
ATOM	49938	CB	GLU	R	62	171.787	131.926	-64.172	1.00	90.76	RS18
ATOM	49939	CG	GLU	R	62	170.657	132.942	-64.184	1.00	90.76	RS18
ATOM	49940	CD	GLU	R	62	171.152	134.397	-64.170	1.00	90.76	RS18
ATOM	49941	OE1	GLU	R	62	172.025	134.747	-63.341	1.00	90.76	RS18
ATOM	49942	OE2	GLU	R	62	170.653	135.201	-64.990	1.00	90.76	RS18
ATOM	49943	C	GLU	R	62	172.598	129.567	-64.228	1.00	84.54	RS18
ATOM	49944	O	GLU	R	62	172.738	128.648	-65.038	1.00	84.54	RS18
ATOM	49945	N	GLN	R	63	173.496	129.859	-63.294	1.00	73.12	RS18
ATOM	49946	CA	GLN	R	63	174.740	129.120	-63.109	1.00	73.12	RS18
ATOM	49947	CB	GLN	R	63	175.211	129.298	-61.672	1.00	73.48	RS18
ATOM	49948	CG	GLN	R	63	176.373	128.425	-61.287	1.00	73.48	RS18

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ATOM	49949	CD	GLN	R	63	177.638	128.835	-61.990	1.00	73.48	RS18
ATOM	49950	OE1	GLN	R	63	177.735	129.939	-62.536	1.00	73.48	RS18
ATOM	49951	NE2	GLN	R	63	178.630	127.955	-61.968	1.00	73.48	RS18
ATOM	49952	C	GLN	R	63	174.585	127.635	-63.386	1.00	73.12	RS18
ATOM	49953	O	GLN	R	63	175.392	127.022	-64.083	1.00	73.12	RS18
ATOM	49954	N	ARG	R	64	173.539	127.060	-62.820	1.00	57.96	RS18
ATOM	49955	CA	ARG	R	64	173.279	125.648	-62.980	1.00	57.96	RS18
ATOM	49956	CB	ARG	R	64	172.073	125.256	-62.148	1.00	73.78	RS18
ATOM	49957	CG	ARG	R	64	171.753	123.772	-62.166	1.00	73.78	RS18
ATOM	49958	CD	ARG	R	64	170.368	123.573	-61.593	1.00	73.78	RS18
ATOM	49959	NE	ARG	R	64	170.165	124.452	-60.446	1.00	73.78	RS18
ATOM	49960	CZ	ARG	R	64	168.981	124.885	-60.041	1.00	73.78	RS18
ATOM	49961	NH1	ARG	R	64	167.886	124.522	-60.696	1.00	73.78	RS18
ATOM	49962	NH2	ARG	R	64	168.900	125.669	-58.977	1.00	73.78	RS18
ATOM	49963	C	ARG	R	64	173.037	125.241	-64.422	1.00	57.96	RS18
ATOM	49964	O	ARG	R	64	173.404	124.134	-64.814	1.00	57.96	RS18
ATOM	49965	N	ILE	R	65	172.403	126.112	-65.205	1.00	90.30	RS18
ATOM	49966	CA	ILE	R	65	172.130	125.797	-66.605	1.00	90.30	RS18
ATOM	49967	CB	ILE	R	65	171.070	126.709	-67.221	1.00	68.38	RS18
ATOM	49968	CG2	ILE	R	65	170.410	125.985	-68.371	1.00	68.38	RS18
ATOM	49969	CG1	ILE	R	65	170.003	127.066	-66.188	1.00	68.38	RS18
ATOM	49970	CD1	ILE	R	65	169.008	128.104	-66.668	1.00	68.38	RS18
ATOM	49971	C	ILE	R	65	173.403	125.998	-67.398	1.00	90.30	RS18
ATOM	49972	O	ILE	R	65	173.743	125.189	-68.263	1.00	90.30	RS18
ATOM	49973	N	LEU	R	66	174.097	127.093	-67.099	1.00	68.39	RS18
ATOM	49974	CA	LEU	R	66	175.352	127.416	-67.767	1.00	68.39	RS18
ATOM	49975	CB	LEU	R	66	176.099	128.515	-67.015	1.00	67.50	RS18
ATOM	49976	CG	LEU	R	66	177.557	128.639	-67.459	1.00	67.50	RS18
ATOM	49977	CD1	LEU	R	66	177.568	129.102	-68.901	1.00	67.50	RS18
ATOM	49978	CD2	LEU	R	66	178.325	129.605	-66.560	1.00	67.50	RS18
ATOM	49979	C	LEU	R	66	176.226	126.183	-67.787	1.00	68.39	RS18
ATOM	49980	O	LEU	R	66	176.653	125.719	-68.839	1.00	68.39	RS18
ATOM	49981	N	ALA	R	67	176.478	125.667	-66.592	1.00	75.95	RS18
ATOM	49982	CA	ALA	R	67	177.305	124.490	-66.399	1.00	75.95	RS18
ATOM	49983	CB	ALA	R	67	177.200	124.040	-64.958	1.00	85.40	RS18
ATOM	49984	C	ALA	R	67	176.986	123.322	-67.336	1.00	75.95	RS18
ATOM	49985	O	ALA	R	67	177.898	122.614	-67.772	1.00	75.95	RS18
ATOM	49986	N	LYS	R	68	175.708	123.103	-67.638	1.00	84.99	RS18
ATOM	49987	CA	LYS	R	68	175.346	122.005	-68.526	1.00	84.99	RS18
ATOM	49988	CB	LYS	R	68	173.874	121.630	-68.356	1.00	103.23	RS18
ATOM	49989	CG	LYS	R	68	173.653	120.127	-68.344	1.00	103.23	RS18
ATOM	49990	CD	LYS	R	68	172.187	119.763	-68.206	1.00	103.23	RS18
ATOM	49991	CE	LYS	R	68	172.025	118.271	-67.942	1.00	103.23	RS18
ATOM	49992	NZ	LYS	R	68	170.592	117.843	-67.886	1.00	103.23	RS18
ATOM	49993	C	LYS	R	68	175.626	122.441	-69.961	1.00	84.99	RS18
ATOM	49994	O	LYS	R	68	176.018	121.639	-70.821	1.00	84.99	RS18
ATOM	49995	N	THR	R	69	175.434	123.729	-70.209	1.00	78.33	RS18
ATOM	49996	CA	THR	R	69	175.689	124.292	-71.523	1.00	78.33	RS18
ATOM	49997	CB	THR	R	69	175.250	125.768	-71.565	1.00	88.64	RS18
ATOM	49998	OG1	THR	R	69	173.827	125.835	-71.728	1.00	88.64	RS18
ATOM	49999	CG2	THR	R	69	175.938	126.502	-72.700	1.00	88.64	RS18
ATOM	50000	C	THR	R	69	177.182	124.178	-71.843	1.00	78.33	RS18
ATOM	50001	O	THR	R	69	177.564	123.797	-72.939	1.00	78.33	RS18
ATOM	50002	N	ILE	R	70	178.021	124.500	-70.870	1.00	79.12	RS18
ATOM	50003	CA	ILE	R	70	179.459	124.431	-71.058	1.00	79.12	RS18
ATOM	50004	CB	ILE	R	70	180.186	125.023	-69.862	1.00	56.76	RS18
ATOM	50005	CG2	ILE	R	70	181.670	124.778	-69.960	1.00	56.76	RS18
ATOM	50006	CG1	ILE	R	70	179.916	126.514	-69.812	1.00	56.76	RS18
ATOM	50007	CD1	ILE	R	70	180.581	127.196	-68.642	1.00	56.76	RS18
ATOM	50008	C	ILE	R	70	179.942	123.010	-71.261	1.00	79.12	RS18
ATOM	50009	O	ILE	R	70	180.867	122.771	-72.037	1.00	79.12	RS18
ATOM	50010	N	LYS	R	71	179.334	122.061	-70.564	1.00	77.61	RS18
ATOM	50011	CA	LYS	R	71	179.760	120.684	-70.726	1.00	77.61	RS18
ATOM	50012	CB	LYS	R	71	179.151	119.797	-69.636	1.00	73.46	RS18
ATOM	50013	CG	LYS	R	71	179.862	119.960	-68.292	1.00	73.46	RS18
ATOM	50014	CD	LYS	R	71	179.113	119.304	-67.149	1.00	73.46	RS18
ATOM	50015	CE	LYS	R	71	179.660	119.790	-65.811	1.00	73.46	RS18
ATOM	50016	NZ	LYS	R	71	178.884	119.283	-64.641	1.00	73.46	RS18
ATOM	50017	C	LYS	R	71	179.398	120.193	-72.121	1.00	77.61	RS18
ATOM	50018	O	LYS	R	71	180.223	119.575	-72.794	1.00	77.61	RS18
ATOM	50019	N	ARG	R	72	178.185	120.481	-72.577	1.00	91.32	RS18
ATOM	50020	CA	ARG	R	72	177.797	120.050	-73.916	1.00	91.32	RS18
ATOM	50021	CB	ARG	R	72	176.444	120.641	-74.300	1.00	91.81	RS18
ATOM	50022	CG	ARG	R	72	175.276	120.016	-73.572	1.00	91.81	RS18
ATOM	50023	CD	ARG	R	72	173.966	120.669	-73.981	1.00	91.81	RS18
ATOM	50024	NE	ARG	R	72	172.816	119.803	-73.730	1.00	91.81	RS18
ATOM	50025	CZ	ARG	R	72	171.562	120.119	-74.040	1.00	91.81	RS18

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ATOM	50026	NH1	ARG	R	72	171.292	121.284	-74.613	1.00	91.81	RS18
ATOM	50027	NH2	ARG	R	72	170.577	119.266	-73.783	1.00	91.81	RS18
ATOM	50028	C	ARG	R	72	178.857	120.490	-74.924	1.00	91.32	RS18
ATOM	50029	O	ARG	R	72	179.358	119.683	-75.702	1.00	91.32	RS18
ATOM	50030	N	ALA	R	73	179.208	121.773	-74.886	1.00	88.10	RS18
ATOM	50031	CA	ALA	R	73	180.202	122.339	-75.795	1.00	88.10	RS18
ATOM	50032	CB	ALA	R	73	180.563	123.758	-75.359	1.00	38.71	RS18
ATOM	50033	C	ALA	R	73	181.460	121.490	-75.857	1.00	88.10	RS18
ATOM	50034	O	ALA	R	73	181.839	120.989	-76.925	1.00	88.10	RS18
ATOM	50035	N	ARG	R	74	182.107	121.353	-74.703	1.00	75.47	RS18
ATOM	50036	CA	ARG	R	74	183.326	120.571	-74.576	1.00	75.47	RS18
ATOM	50037	CB	ARG	R	74	183.562	120.217	-73.115	1.00	79.49	RS18
ATOM	50038	CG	ARG	R	74	183.907	121.382	-72.225	1.00	79.49	RS18
ATOM	50039	CD	ARG	R	74	184.043	120.887	-70.804	1.00	79.49	RS18
ATOM	50040	NE	ARG	R	74	184.557	121.901	-69.890	1.00	79.49	RS18
ATOM	50041	CZ	ARG	R	74	184.476	121.807	-68.569	1.00	79.49	RS18
ATOM	50042	NH1	ARG	R	74	183.899	120.746	-68.010	1.00	79.49	RS18
ATOM	50043	NH2	ARG	R	74	184.973	122.767	-67.813	1.00	79.49	RS18
ATOM	50044	C	ARG	R	74	183.240	119.292	-75.389	1.00	75.47	RS18
ATOM	50045	O	ARG	R	74	184.100	119.017	-76.223	1.00	75.47	RS18
ATOM	50046	N	ILE	R	75	182.195	118.512	-75.138	1.00	71.12	RS18
ATOM	50047	CA	ILE	R	75	181.992	117.262	-75.846	1.00	71.12	RS18
ATOM	50048	CB	ILE	R	75	180.665	116.602	-75.375	1.00	68.01	RS18
ATOM	50049	CG2	ILE	R	75	179.548	116.872	-76.376	1.00	68.01	RS18
ATOM	50050	CG1	ILE	R	75	180.868	115.097	-75.188	1.00	68.01	RS18
ATOM	50051	CD1	ILE	R	75	179.661	114.361	-74.585	1.00	68.01	RS18
ATOM	50052	C	ILE	R	75	181.991	117.516	-77.371	1.00	71.12	RS18
ATOM	50053	O	ILE	R	75	182.568	116.746	-78.145	1.00	71.12	RS18
ATOM	50054	N	LEU	R	76	181.359	118.607	-77.798	1.00	98.13	RS18
ATOM	50055	CA	LEU	R	76	181.314	118.947	-79.213	1.00	98.13	RS18
ATOM	50056	CB	LEU	R	76	180.297	120.052	-79.479	1.00	63.01	RS18
ATOM	50057	CG	LEU	R	76	178.818	119.681	-79.432	1.00	63.01	RS18
ATOM	50058	CD1	LEU	R	76	177.982	120.912	-79.766	1.00	63.01	RS18
ATOM	50059	CD2	LEU	R	76	178.538	118.561	-80.412	1.00	63.01	RS18
ATOM	50060	C	LEU	R	76	182.674	119.430	-79.669	1.00	98.13	RS18
ATOM	50061	O	LEU	R	76	182.881	119.684	-80.850	1.00	98.13	RS18
ATOM	50062	N	GLY	R	77	183.595	119.576	-78.725	1.00	56.21	RS18
ATOM	50063	CA	GLY	R	77	184.930	120.032	-79.071	1.00	56.21	RS18
ATOM	50064	C	GLY	R	77	185.047	121.544	-79.173	1.00	56.21	RS18
ATOM	50065	O	GLY	R	77	186.149	122.070	-79.346	1.00	56.21	RS18
ATOM	50066	N	LEU	R	78	183.922	122.246	-79.055	1.00	72.16	RS18
ATOM	50067	CA	LEU	R	78	183.904	123.709	-79.139	1.00	72.16	RS18
ATOM	50068	CB	LEU	R	78	182.464	124.204	-79.199	1.00	95.31	RS18
ATOM	50069	CG	LEU	R	78	181.722	123.764	-80.456	1.00	95.31	RS18
ATOM	50070	CD1	LEU	R	78	180.216	123.964	-80.304	1.00	95.31	RS18
ATOM	50071	CD2	LEU	R	78	182.276	124.556	-81.624	1.00	95.31	RS18
ATOM	50072	C	LEU	R	78	184.623	124.419	-77.994	1.00	72.16	RS18
ATOM	50073	O	LEU	R	78	185.262	125.451	-78.215	1.00	72.16	RS18
ATOM	50074	N	LEU	R	79	184.493	123.874	-76.778	1.00	89.45	RS18
ATOM	50075	CA	LEU	R	79	185.121	124.424	-75.563	1.00	89.45	RS18
ATOM	50076	CB	LEU	R	79	184.054	124.778	-74.521	1.00	78.83	RS18
ATOM	50077	CG	LEU	R	79	183.325	126.109	-74.733	1.00	78.83	RS18
ATOM	50078	CD1	LEU	R	79	182.103	126.211	-73.830	1.00	78.83	RS18
ATOM	50079	CD2	LEU	R	79	184.292	127.240	-74.458	1.00	78.83	RS18
ATOM	50080	C	LEU	R	79	186.122	123.437	-74.957	1.00	89.45	RS18
ATOM	50081	O	LEU	R	79	185.981	122.229	-75.116	1.00	89.45	RS18
ATOM	50082	N	PRO	R	80	187.129	123.944	-74.227	1.00	66.63	RS18
ATOM	50083	CD	PRO	R	80	187.258	125.369	-73.859	1.00	49.68	RS18
ATOM	50084	CA	PRO	R	80	188.183	123.139	-73.583	1.00	66.63	RS18
ATOM	50085	CB	PRO	R	80	189.276	124.161	-73.321	1.00	49.68	RS18
ATOM	50086	CG	PRO	R	80	188.461	125.363	-72.884	1.00	49.68	RS18
ATOM	50087	C	PRO	R	80	187.815	122.412	-72.296	1.00	66.63	RS18
ATOM	50088	O	PRO	R	80	186.910	122.812	-71.562	1.00	66.63	RS18
ATOM	50089	N	PHE	R	81	188.536	121.339	-72.012	1.00	84.04	RS18
ATOM	50090	CA	PHE	R	81	188.288	120.615	-70.785	1.00	84.04	RS18
ATOM	50091	CB	PHE	R	81	188.468	119.116	-70.976	1.00	82.67	RS18
ATOM	50092	CG	PHE	R	81	187.259	118.431	-71.538	1.00	82.67	RS18
ATOM	50093	CD1	PHE	R	81	186.923	118.568	-72.875	1.00	82.67	RS18
ATOM	50094	CD2	PHE	R	81	186.450	117.650	-70.724	1.00	82.67	RS18
ATOM	50095	CE1	PHE	R	81	185.798	117.934	-73.390	1.00	82.67	RS18
ATOM	50096	CE2	PHE	R	81	185.324	117.014	-71.233	1.00	82.67	RS18
ATOM	50097	CZ	PHE	R	81	184.998	117.155	-72.563	1.00	82.67	RS18
ATOM	50098	C	PHE	R	81	189.276	121.118	-69.757	1.00	84.04	RS18
ATOM	50099	O	PHE	R	81	188.965	121.168	-68.571	1.00	84.04	RS18
ATOM	50100	N	THR	R	82	190.463	121.506	-70.217	1.00	90.88	RS18
ATOM	50101	CA	THR	R	82	191.492	122.005	-69.311	1.00	90.88	RS18
ATOM	50102	CB	THR	R	82	191.989	120.864	-68.407	1.00	96.88	RS18

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ATOM	50103	OG1	THR	R	82	192.843	121.392	-67.385	1.00	96.88	RS18
ATOM	50104	CG2	THR	R	82	192.738	119.832	-69.226	1.00	96.88	RS18
ATOM	50105	C	THR	R	82	192.683	122.644	-70.049	1.00	90.88	RS18
ATOM	50106	O	THR	R	82	193.111	122.158	-71.093	1.00	90.88	RS18
ATOM	50107	N	GLU	R	83	193.213	123.735	-69.498	1.00	82.72	RS18
ATOM	50108	CA	GLU	R	83	194.328	124.451	-70.112	1.00	82.72	RS18
ATOM	50109	CB	GLU	R	83	193.962	125.924	-70.318	1.00157.17		RS18
ATOM	50110	CG	GLU	R	83	192.598	126.158	-70.930	1.00157.17		RS18
ATOM	50111	CD	GLU	R	83	192.507	125.681	-72.360	1.00157.17		RS18
ATOM	50112	OE1	GLU	R	83	192.831	124.502	-72.619	1.00157.17		RS18
ATOM	50113	OE2	GLU	R	83	192.105	126.488	-73.226	1.00157.17		RS18
ATOM	50114	C	GLU	R	83	195.583	124.394	-69.255	1.00	82.72	RS18
ATOM	50115	O	GLU	R	83	195.521	124.096	-68.064	1.00	82.72	RS18
ATOM	50116	N	LYS	R	84	196.726	124.683	-69.872	1.00	86.60	RS18
ATOM	50117	CA	LYS	R	84	197.993	124.709	-69.155	1.00	86.60	RS18
ATOM	50118	CB	LYS	R	84	199.165	124.531	-70.121	1.00	92.41	RS18
ATOM	50119	CG	LYS	R	84	199.211	123.215	-70.885	1.00	92.41	RS18
ATOM	50120	CD	LYS	R	84	200.538	123.109	-71.644	1.00	92.41	RS18
ATOM	50121	CE	LYS	R	84	200.823	121.699	-72.149	1.00	92.41	RS18
ATOM	50122	NZ	LYS	R	84	202.202	121.601	-72.721	1.00	92.41	RS18
ATOM	50123	C	LYS	R	84	198.063	126.102	-68.531	1.00	86.60	RS18
ATOM	50124	O	LYS	R	84	197.478	127.053	-69.066	1.00	86.60	RS18
ATOM	50125	N	LEU	R	85	198.773	126.239	-67.415	1.00	89.99	RS18
ATOM	50126	CA	LEU	R	85	198.868	127.545	-66.763	1.00	89.99	RS18
ATOM	50127	CB	LEU	R	85	198.715	127.391	-65.242	1.00	77.19	RS18
ATOM	50128	CG	LEU	R	85	198.514	128.688	-64.438	1.00	77.19	RS18
ATOM	50129	CD1	LEU	R	85	197.304	129.452	-64.989	1.00	77.19	RS18
ATOM	50130	CD2	LEU	R	85	198.320	128.369	-62.953	1.00	77.19	RS18
ATOM	50131	C	LEU	R	85	200.170	128.274	-67.082	1.00	89.99	RS18
ATOM	50132	O	LEU	R	85	201.258	127.799	-66.750	1.00	89.99	RS18
ATOM	50133	N	VAL	R	86	200.052	129.431	-67.727	1.00	95.26	RS18
ATOM	50134	CA	VAL	R	86	201.224	130.227	-68.082	1.00	95.26	RS18
ATOM	50135	CB	VAL	R	86	200.940	131.124	-69.284	1.00	75.35	RS18
ATOM	50136	CG1	VAL	R	86	202.141	132.032	-69.539	1.00	75.35	RS18
ATOM	50137	CG2	VAL	R	86	200.622	130.263	-70.502	1.00	75.35	RS18
ATOM	50138	C	VAL	R	86	201.683	131.108	-66.922	1.00	95.26	RS18
ATOM	50139	O	VAL	R	86	200.865	131.762	-66.282	1.00	95.26	RS18
ATOM	50140	N	ARG	R	87	202.997	131.130	-66.692	1.00182.82		RS18
ATOM	50141	CA	ARG	R	87	203.650	131.870	-65.604	1.00182.82		RS18
ATOM	50142	CB	ARG	R	87	202.688	132.800	-64.864	1.00143.98		RS18
ATOM	50143	CG	ARG	R	87	202.431	134.121	-65.522	1.00143.98		RS18
ATOM	50144	CD	ARG	R	87	203.636	135.023	-65.430	1.00143.98		RS18
ATOM	50145	NE	ARG	R	87	203.260	136.404	-65.705	1.00143.98		RS18
ATOM	50146	CZ	ARG	R	87	202.595	136.793	-66.788	1.00143.98		RS18
ATOM	50147	NH1	ARG	R	87	202.230	135.905	-67.704	1.00143.98		RS18
ATOM	50148	NH2	ARG	R	87	202.291	138.072	-66.955	1.00143.98		RS18
ATOM	50149	C	ARG	R	87	204.125	130.815	-64.621	1.00182.82		RS18
ATOM	50150	O	ARG	R	87	204.591	129.750	-65.025	1.00182.82		RS18
ATOM	50151	N	LYS	R	88	203.990	131.113	-63.331	1.00131.53		RS18
ATOM	50152	CA	LYS	R	88	204.381	130.187	-62.273	1.00131.53		RS18
ATOM	50153	CB	LYS	R	88	203.868	128.778	-62.600	1.00104.37		RS18
ATOM	50154	CG	LYS	R	88	203.733	127.878	-61.402	1.00104.37		RS18
ATOM	50155	CD	LYS	R	88	203.417	126.451	-61.819	1.00104.37		RS18
ATOM	50156	CE	LYS	R	88	203.073	125.583	-60.603	1.00104.37		RS18
ATOM	50157	NZ	LYS	R	88	203.132	124.112	-60.866	1.00104.37		RS18
ATOM	50158	C	LYS	R	88	205.897	130.163	-62.057	1.00131.53		RS18
ATOM	50159	O	LYS	R	88	206.578	131.123	-62.488	1.00131.53		RS18
ATOM	50160	OXT	LYS	R	88	206.383	129.191	-61.441	1.00133.34		RS18
TER	50160		LYS	R	88						RS18
ATOM	50161	CB	PRO	S	2	255.673	114.245	14.343	1.00128.40		SS19
ATOM	50162	CG	PRO	S	2	254.999	113.135	13.540	1.00128.40		SS19
ATOM	50163	C	PRO	S	2	254.978	113.942	16.745	1.00141.27		SS19
ATOM	50164	O	PRO	S	2	254.192	114.876	16.557	1.00141.27		SS19
ATOM	50165	N	PRO	S	2	255.999	112.084	15.388	1.00141.27		SS19
ATOM	50166	CD	PRO	S	2	255.720	111.842	13.960	1.00128.40		SS19
ATOM	50167	CA	PRO	S	2	255.985	113.543	15.664	1.00141.27		SS19
ATOM	50168	N	ARG	S	3	255.015	113.231	17.873	1.00198.84		SS19
ATOM	50169	CA	ARG	S	3	254.119	113.486	19.009	1.00198.84		SS19
ATOM	50170	CB	ARG	S	3	253.797	112.169	19.728	1.00190.98		SS19
ATOM	50171	CG	ARG	S	3	253.463	110.997	18.812	1.00190.98		SS19
ATOM	50172	CD	ARG	S	3	253.450	109.698	19.609	1.00190.98		SS19
ATOM	50173	NE	ARG	S	3	253.410	108.508	18.761	1.00190.98		SS19
ATOM	50174	CZ	ARG	S	3	253.558	107.263	19.210	1.00190.98		SS19
ATOM	50175	NH1	ARG	S	3	253.756	107.039	20.503	1.00190.98		SS19
ATOM	50176	NH2	ARG	S	3	253.510	106.240	18.367	1.00190.98		SS19
ATOM	50177	C	ARG	S	3	254.801	114.450	19.995	1.00198.84		SS19
ATOM	50178	O	ARG	S	3	255.980	114.777	19.814	1.00198.84		SS19

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ATOM	50179	N	SER	S	4	254.079	114.895	21.033	1.00100.58	SS19
ATOM	50180	CA	SER	S	4	254.666	115.820	22.010	1.00100.58	SS19
ATOM	50181	CB	SER	S	4	255.268	117.019	21.278	1.00182.62	SS19
ATOM	50182	OG	SER	S	4	254.306	117.611	20.425	1.00182.62	SS19
ATOM	50183	C	SER	S	4	253.790	116.351	23.150	1.00100.58	SS19
ATOM	50184	O	SER	S	4	252.684	116.848	22.933	1.00100.58	SS19
ATOM	50185	N	LEU	S	5	254.330	116.265	24.365	1.00121.23	SS19
ATOM	50186	CA	LEU	S	5	253.660	116.748	25.564	1.00121.23	SS19
ATOM	50187	CB	LEU	S	5	253.782	115.732	26.703	1.00154.82	SS19
ATOM	50188	CG	LEU	S	5	252.895	114.492	26.561	1.00154.82	SS19
ATOM	50189	CD1	LEU	S	5	253.072	113.560	27.759	1.00154.82	SS19
ATOM	50190	CD2	LEU	S	5	251.447	114.941	26.444	1.00154.82	SS19
ATOM	50191	C	LEU	S	5	254.240	118.091	25.998	1.00121.23	SS19
ATOM	50192	O	LEU	S	5	253.479	119.026	26.211	1.00121.23	SS19
ATOM	50193	N	LYS	S	6	255.572	118.172	26.120	1.00120.37	SS19
ATOM	50194	CA	LYS	S	6	256.310	119.395	26.509	1.00120.37	SS19
ATOM	50195	CB	LYS	S	6	255.361	120.478	27.060	1.00 95.15	SS19
ATOM	50196	CG	LYS	S	6	254.697	121.362	26.012	1.00 95.15	SS19
ATOM	50197	CD	LYS	S	6	253.636	122.296	26.625	1.00 95.15	SS19
ATOM	50198	CE	LYS	S	6	252.359	121.565	27.093	1.00 95.15	SS19
ATOM	50199	NZ	LYS	S	6	251.266	122.496	27.569	1.00 95.15	SS19
ATOM	50200	C	LYS	S	6	257.430	119.171	27.542	1.00120.37	SS19
ATOM	50201	O	LYS	S	6	258.539	118.728	27.213	1.00120.37	SS19
ATOM	50202	N	LYS	S	7	257.113	119.521	28.788	1.00108.94	SS19
ATOM	50203	CA	LYS	S	7	258.004	119.401	29.940	1.00108.94	SS19
ATOM	50204	CB	LYS	S	7	258.621	120.766	30.252	1.00 80.12	SS19
ATOM	50205	CG	LYS	S	7	257.606	121.808	30.692	1.00 80.12	SS19
ATOM	50206	CD	LYS	S	7	258.232	123.183	30.794	1.00 80.12	SS19
ATOM	50207	CE	LYS	S	7	258.268	123.912	29.446	1.00 80.12	SS19
ATOM	50208	NZ	LYS	S	7	256.977	124.617	29.121	1.00 80.12	SS19
ATOM	50209	C	LYS	S	7	257.166	118.894	31.136	1.00108.94	SS19
ATOM	50210	O	LYS	S	7	256.453	119.655	31.795	1.00108.94	SS19
ATOM	50211	N	GLY	S	8	257.251	117.591	31.389	1.00 93.74	SS19
ATOM	50212	CA	GLY	S	8	256.502	116.978	32.469	1.00 93.74	SS19
ATOM	50213	C	GLY	S	8	255.813	115.712	31.986	1.00 93.74	SS19
ATOM	50214	O	GLY	S	8	254.593	115.591	32.096	1.00 93.74	SS19
ATOM	50215	N	VAL	S	9	256.597	114.775	31.445	1.00103.38	SS19
ATOM	50216	CA	VAL	S	9	256.102	113.491	30.918	1.00103.38	SS19
ATOM	50217	CB	VAL	S	9	257.250	112.478	30.789	1.00 73.28	SS19
ATOM	50218	CG1	VAL	S	9	256.696	111.116	30.340	1.00 73.28	SS19
ATOM	50219	CG2	VAL	S	9	258.307	113.016	29.831	1.00 73.28	SS19
ATOM	50220	C	VAL	S	9	255.012	112.838	31.768	1.00103.38	SS19
ATOM	50221	O	VAL	S	9	255.316	112.145	32.733	1.00103.38	SS19
ATOM	50222	N	PHE	S	10	253.753	113.010	31.381	1.00 89.27	SS19
ATOM	50223	CA	PHE	S	10	252.639	112.471	32.159	1.00 89.27	SS19
ATOM	50224	CB	PHE	S	10	251.322	112.987	31.590	1.00115.14	SS19
ATOM	50225	CG	PHE	S	10	250.116	112.558	32.382	1.00115.14	SS19
ATOM	50226	CD1	PHE	S	10	249.561	113.398	33.339	1.00115.14	SS19
ATOM	50227	CD2	PHE	S	10	249.537	111.305	32.176	1.00115.14	SS19
ATOM	50228	CE1	PHE	S	10	248.447	112.998	34.075	1.00115.14	SS19
ATOM	50229	CE2	PHE	S	10	248.429	110.899	32.906	1.00115.14	SS19
ATOM	50230	CZ	PHE	S	10	247.881	111.745	33.857	1.00115.14	SS19
ATOM	50231	C	PHE	S	10	252.516	110.951	32.366	1.00 89.27	SS19
ATOM	50232	O	PHE	S	10	252.877	110.152	31.498	1.00 89.27	SS19
ATOM	50233	N	VAL	S	11	251.973	110.589	33.535	1.00112.59	SS19
ATOM	50234	CA	VAL	S	11	251.727	109.204	33.957	1.00112.59	SS19
ATOM	50235	CB	VAL	S	11	253.002	108.515	34.510	1.00 97.80	SS19
ATOM	50236	CG1	VAL	S	11	252.657	107.115	35.021	1.00 97.80	SS19
ATOM	50237	CG2	VAL	S	11	254.065	108.429	33.435	1.00 97.80	SS19
ATOM	50238	C	VAL	S	11	250.702	109.187	35.096	1.00112.59	SS19
ATOM	50239	O	VAL	S	11	251.027	109.587	36.215	1.00112.59	SS19
ATOM	50240	N	ASP	S	12	249.475	108.739	34.823	1.00156.36	SS19
ATOM	50241	CA	ASP	S	12	248.460	108.664	35.877	1.00156.36	SS19
ATOM	50242	CB	ASP	S	12	247.186	107.957	35.388	1.00198.84	SS19
ATOM	50243	CG	ASP	S	12	246.128	108.924	34.865	1.00198.84	SS19
ATOM	50244	OD1	ASP	S	12	246.201	109.331	33.686	1.00198.84	SS19
ATOM	50245	OD2	ASP	S	12	245.215	109.279	35.640	1.00198.84	SS19
ATOM	50246	C	ASP	S	12	249.100	107.831	36.978	1.00156.36	SS19
ATOM	50247	O	ASP	S	12	249.575	106.724	36.720	1.00156.36	SS19
ATOM	50248	N	ASP	S	13	249.121	108.353	38.201	1.00103.44	SS19
ATOM	50249	CA	ASP	S	13	249.750	107.627	39.299	1.00103.45	SS19
ATOM	50250	CB	ASP	S	13	250.328	108.614	40.316	1.00136.91	SS19
ATOM	50251	CG	ASP	S	13	249.309	109.608	40.800	1.00137.23	SS19
ATOM	50252	OD1	ASP	S	13	249.721	110.612	41.418	1.00137.93	SS19
ATOM	50253	OD2	ASP	S	13	248.100	109.384	40.568	1.00137.83	SS19
ATOM	50254	C	ASP	S	13	248.875	106.595	40.002	1.00103.45	SS19
ATOM	50255	O	ASP	S	13	249.000	106.379	41.203	1.00103.45	SS19

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ATOM	50256	N	HIS	S	14	247.983	105.960	39.253	1.00115.86	SS19
ATOM	50257	CA	HIS	S	14	247.145	104.920	39.828	1.00115.91	SS19
ATOM	50258	CB	HIS	S	14	245.979	104.569	38.909	1.00145.55	SS19
ATOM	50259	CG	HIS	S	14	245.076	105.720	38.622	1.00145.68	SS19
ATOM	50260	CD2	HIS	S	14	244.746	106.325	37.458	1.00146.25	SS19
ATOM	50261	ND1	HIS	S	14	244.409	106.403	39.615	1.00146.47	SS19
ATOM	50262	CE1	HIS	S	14	243.706	107.381	39.074	1.00146.41	SS19
ATOM	50263	NE2	HIS	S	14	243.893	107.356	37.767	1.00146.12	SS19
ATOM	50264	C	HIS	S	14	248.096	103.757	39.855	1.00115.87	SS19
ATOM	50265	O	HIS	S	14	248.432	103.223	40.908	1.00115.93	SS19
ATOM	50266	N	LEU	S	15	248.538	103.392	38.660	1.00152.13	SS19
ATOM	50267	CA	LEU	S	15	249.462	102.297	38.491	1.00152.16	SS19
ATOM	50268	CB	LEU	S	15	249.343	101.716	37.080	1.00109.60	SS19
ATOM	50269	CG	LEU	S	15	249.144	102.662	35.893	1.00109.65	SS19
ATOM	50270	CD1	LEU	S	15	250.083	103.861	35.951	1.00109.77	SS19
ATOM	50271	CD2	LEU	S	15	249.375	101.864	34.628	1.00109.78	SS19
ATOM	50272	C	LEU	S	15	250.897	102.719	38.760	1.00152.08	SS19
ATOM	50273	O	LEU	S	15	251.768	101.869	38.905	1.00152.09	SS19
ATOM	50274	N	LEU	S	16	251.161	104.020	38.825	1.00122.05	SS19
ATOM	50275	CA	LEU	S	16	252.530	104.445	39.085	1.00122.07	SS19
ATOM	50276	CB	LEU	S	16	252.712	105.950	38.869	1.00106.24	SS19
ATOM	50277	CG	LEU	S	16	254.179	106.405	38.946	1.00106.28	SS19
ATOM	50278	CD1	LEU	S	16	255.046	105.529	38.035	1.00106.56	SS19
ATOM	50279	CD2	LEU	S	16	254.291	107.873	38.551	1.00106.57	SS19
ATOM	50280	C	LEU	S	16	252.881	104.082	40.515	1.00122.05	SS19
ATOM	50281	O	LEU	S	16	253.704	103.200	40.753	1.00122.09	SS19
ATOM	50282	N	GLU	S	17	252.250	104.748	41.474	1.00148.70	SS19
ATOM	50283	CA	GLU	S	17	252.526	104.430	42.861	1.00148.76	SS19
ATOM	50284	CB	GLU	S	17	251.901	105.472	43.799	1.00164.90	SS19
ATOM	50285	CG	GLU	S	17	250.382	105.438	43.897	1.00165.16	SS19
ATOM	50286	CD	GLU	S	17	249.840	106.415	44.938	1.00165.10	SS19
ATOM	50287	OE1	GLU	S	17	248.613	106.413	45.191	1.00165.69	SS19
ATOM	50288	OE2	GLU	S	17	250.644	107.189	45.504	1.00165.90	SS19
ATOM	50289	C	GLU	S	17	251.974	103.034	43.156	1.00148.75	SS19
ATOM	50290	O	GLU	S	17	251.808	102.658	44.309	1.00148.84	SS19
ATOM	50291	N	LYS	S	18	251.688	102.276	42.097	1.00 95.15	SS19
ATOM	50292	CA	LYS	S	18	251.177	100.908	42.217	1.00 95.17	SS19
ATOM	50293	CB	LYS	S	18	249.776	100.773	41.601	1.00106.12	SS19
ATOM	50294	CG	LYS	S	18	249.276	99.316	41.545	1.00106.24	SS19
ATOM	50295	CD	LYS	S	18	248.066	99.097	40.619	1.00107.19	SS19
ATOM	50296	CE	LYS	S	18	246.765	99.661	41.187	1.00107.85	SS19
ATOM	50297	NZ	LYS	S	18	245.568	99.169	40.437	1.00108.76	SS19
ATOM	50298	C	LYS	S	18	252.113	99.948	41.491	1.00 95.17	SS19
ATOM	50299	O	LYS	S	18	252.164	98.753	41.799	1.00 95.21	SS19
ATOM	50300	N	VAL	S	19	252.840	100.475	40.511	1.00140.56	SS19
ATOM	50301	CA	VAL	S	19	253.766	99.667	39.735	1.00140.60	SS19
ATOM	50302	CB	VAL	S	19	254.090	100.321	38.362	1.00133.70	SS19
ATOM	50303	CG1	VAL	S	19	254.694	101.705	38.556	1.00134.10	SS19
ATOM	50304	CG2	VAL	S	19	255.046	99.437	37.583	1.00134.06	SS19
ATOM	50305	C	VAL	S	19	255.051	99.485	40.518	1.00140.60	SS19
ATOM	50306	O	VAL	S	19	255.645	98.407	40.501	1.00140.64	SS19
ATOM	50307	N	LEU	S	20	255.468	100.541	41.214	1.00145.00	SS19
ATOM	50308	CA	LEU	S	20	256.689	100.493	42.003	1.00145.04	SS19
ATOM	50309	CB	LEU	S	20	257.362	101.874	42.033	1.00 93.60	SS19
ATOM	50310	CG	LEU	S	20	256.508	103.142	41.994	1.00 94.47	SS19
ATOM	50311	CD1	LEU	S	20	255.610	103.197	43.222	1.00 95.12	SS19
ATOM	50312	CD2	LEU	S	20	257.419	104.368	41.922	1.00 95.18	SS19
ATOM	50313	C	LEU	S	20	256.493	99.948	43.418	1.00145.02	SS19
ATOM	50314	O	LEU	S	20	257.460	99.548	44.070	1.00145.07	SS19
ATOM	50315	N	GLU	S	21	255.252	99.924	43.899	1.00138.66	SS19
ATOM	50316	CA	GLU	S	21	255.000	99.367	45.223	1.00138.69	SS19
ATOM	50317	CB	GLU	S	21	253.542	99.539	45.646	1.00193.12	SS19
ATOM	50318	CG	GLU	S	21	253.156	100.945	46.031	1.00193.61	SS19
ATOM	50319	CD	GLU	S	21	251.928	100.973	46.921	1.00194.47	SS19
ATOM	50320	OE1	GLU	S	21	252.063	100.677	48.127	1.00195.25	SS19
ATOM	50321	OE2	GLU	S	21	250.826	101.277	46.417	1.00194.97	SS19
ATOM	50322	C	GLU	S	21	255.300	97.886	45.094	1.00138.69	SS19
ATOM	50323	O	GLU	S	21	255.274	97.138	46.068	1.00138.75	SS19
ATOM	50324	N	LEU	S	22	255.572	97.474	43.863	1.00145.26	SS19
ATOM	50325	CA	LEU	S	22	255.889	96.093	43.561	1.00145.30	SS19
ATOM	50326	CB	LEU	S	22	255.046	95.622	42.382	1.00123.14	SS19
ATOM	50327	CG	LEU	S	22	253.561	95.683	42.739	1.00123.36	SS19
ATOM	50328	CD1	LEU	S	22	252.713	95.636	41.491	1.00124.27	SS19
ATOM	50329	CD2	LEU	S	22	253.232	94.540	43.683	1.00123.90	SS19
ATOM	50330	C	LEU	S	22	257.372	95.982	43.248	1.00145.31	SS19
ATOM	50331	O	LEU	S	22	257.928	94.885	43.245	1.00145.38	SS19
ATOM	50332	N	ASN	S	23	258.007	97.124	42.984	1.00164.75	SS19

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ATOM	50333	CA	ASN	S	23	259.441	97.153	42.709	1.00164.79	SS19
ATOM	50334	CB	ASN	S	23	259.876	98.491	42.088	1.00112.20	SS19
ATOM	50335	CG	ASN	S	23	259.390	98.664	40.653	1.00112.24	SS19
ATOM	50336	OD1	ASN	S	23	259.328	97.702	39.879	1.00112.40	SS19
ATOM	50337	ND2	ASN	S	23	259.064	99.901	40.285	1.00112.21	SS19
ATOM	50338	C	ASN	S	23	260.135	96.973	44.050	1.00164.83	SS19
ATOM	50339	O	ASN	S	23	261.354	96.844	44.127	1.00164.89	SS19
ATOM	50340	N	ALA	S	24	259.332	96.974	45.109	1.00179.66	SS19
ATOM	50341	CA	ALA	S	24	259.836	96.802	46.460	1.00179.73	SS19
ATOM	50342	CB	ALA	S	24	258.883	97.449	47.452	1.00 56.35	SS19
ATOM	50343	C	ALA	S	24	259.993	95.313	46.764	1.00179.81	SS19
ATOM	50344	O	ALA	S	24	260.921	94.917	47.468	1.00179.88	SS19
ATOM	50345	N	LYS	S	25	259.086	94.494	46.232	1.00154.97	SS19
ATOM	50346	CA	LYS	S	25	259.136	93.044	46.438	1.00155.08	SS19
ATOM	50347	CB	LYS	S	25	257.783	92.504	46.927	1.00151.76	SS19
ATOM	50348	CG	LYS	S	25	257.089	93.344	47.987	1.00152.39	SS19
ATOM	50349	CD	LYS	S	25	256.247	94.443	47.347	1.00153.24	SS19
ATOM	50350	CE	LYS	S	25	255.527	95.288	48.389	1.00154.07	SS19
ATOM	50351	NZ	LYS	S	25	256.478	96.075	49.222	1.00155.03	SS19
ATOM	50352	C	LYS	S	25	259.498	92.352	45.123	1.00155.07	SS19
ATOM	50353	O	LYS	S	25	259.330	91.138	44.975	1.00155.19	SS19
ATOM	50354	N	GLY	S	26	259.990	93.136	44.170	1.00198.20	SS19
ATOM	50355	CA	GLY	S	26	260.364	92.590	42.879	1.00198.30	SS19
ATOM	50356	C	GLY	S	26	259.334	92.909	41.814	1.00198.36	SS19
ATOM	50357	O	GLY	S	26	259.230	94.047	41.353	1.00198.48	SS19
ATOM	50358	N	GLU	S	27	258.570	91.899	41.416	1.00166.21	SS19
ATOM	50359	CA	GLU	S	27	257.537	92.074	40.405	1.00166.21	SS19
ATOM	50360	CB	GLU	S	27	257.883	91.275	39.143	1.00166.20	SS19
ATOM	50361	CG	GLU	S	27	259.288	91.507	38.590	1.00166.20	SS19
ATOM	50362	CD	GLU	S	27	259.477	92.891	38.001	1.00166.20	SS19
ATOM	50363	OE1	GLU	S	27	258.712	93.256	37.086	1.00166.20	SS19
ATOM	50364	OE2	GLU	S	27	260.394	93.614	38.444	1.00166.20	SS19
ATOM	50365	C	GLU	S	27	256.244	91.543	41.000	1.00166.21	SS19
ATOM	50366	O	GLU	S	27	256.213	91.125	42.157	1.00166.21	SS19
ATOM	50367	N	LYS	S	28	255.177	91.570	40.212	1.00156.56	SS19
ATOM	50368	CA	LYS	S	28	253.889	91.058	40.659	1.00156.56	SS19
ATOM	50369	CB	LYS	S	28	253.008	92.171	41.235	1.00158.77	SS19
ATOM	50370	CG	LYS	S	28	251.682	91.658	41.816	1.00158.77	SS19
ATOM	50371	CD	LYS	S	28	250.768	92.792	42.269	1.00158.77	SS19
ATOM	50372	CE	LYS	S	28	249.425	92.271	42.764	1.00158.77	SS19
ATOM	50373	NZ	LYS	S	28	248.496	93.392	43.078	1.00158.77	SS19
ATOM	50374	C	LYS	S	28	253.179	90.407	39.485	1.00156.56	SS19
ATOM	50375	O	LYS	S	28	253.475	90.702	38.326	1.00156.56	SS19
ATOM	50376	N	ARG	S	29	252.233	89.529	39.792	1.00198.84	SS19
ATOM	50377	CA	ARG	S	29	251.490	88.818	38.765	1.00198.84	SS19
ATOM	50378	CB	ARG	S	29	251.128	87.422	39.283	1.00186.00	SS19
ATOM	50379	CG	ARG	S	29	252.323	86.692	39.896	1.00186.00	SS19
ATOM	50380	CD	ARG	S	29	251.989	85.272	40.327	1.00186.00	SS19
ATOM	50381	NE	ARG	S	29	253.111	84.650	41.026	1.00186.00	SS19
ATOM	50382	CZ	ARG	S	29	253.135	83.385	41.435	1.00186.00	SS19
ATOM	50383	NH1	ARG	S	29	252.094	82.591	41.214	1.00186.00	SS19
ATOM	50384	NH2	ARG	S	29	254.200	82.915	42.072	1.00186.00	SS19
ATOM	50385	C	ARG	S	29	250.237	89.562	38.294	1.00198.84	SS19
ATOM	50386	O	ARG	S	29	249.126	89.292	38.754	1.00198.84	SS19
ATOM	50387	N	LEU	S	30	250.446	90.506	37.377	1.00110.96	SS19
ATOM	50388	CA	LEU	S	30	249.383	91.315	36.776	1.00110.96	SS19
ATOM	50389	CB	LEU	S	30	248.151	90.462	36.457	1.00115.20	SS19
ATOM	50390	CG	LEU	S	30	248.142	89.879	35.043	1.00115.20	SS19
ATOM	50391	CD1	LEU	S	30	246.983	88.904	34.884	1.00115.20	SS19
ATOM	50392	CD2	LEU	S	30	248.043	91.015	34.040	1.00115.20	SS19
ATOM	50393	C	LEU	S	30	248.932	92.547	37.524	1.00110.96	SS19
ATOM	50394	O	LEU	S	30	248.931	92.602	38.747	1.00110.96	SS19
ATOM	50395	N	ILE	S	31	248.548	93.537	36.737	1.00111.14	SS19
ATOM	50396	CA	ILE	S	31	248.058	94.815	37.216	1.00111.14	SS19
ATOM	50397	CB	ILE	S	31	249.119	95.927	37.057	1.00109.52	SS19
ATOM	50398	CG2	ILE	S	31	248.547	97.274	37.474	1.00109.52	SS19
ATOM	50399	CG1	ILE	S	31	250.351	95.585	37.891	1.00109.52	SS19
ATOM	50400	CD1	ILE	S	31	250.046	95.347	39.360	1.00109.52	SS19
ATOM	50401	C	ILE	S	31	246.939	95.083	36.242	1.00111.14	SS19
ATOM	50402	O	ILE	S	31	246.897	94.470	35.181	1.00111.14	SS19
ATOM	50403	N	LYS	S	32	246.021	95.971	36.590	1.00139.25	SS19
ATOM	50404	CA	LYS	S	32	244.935	96.288	35.679	1.00139.25	SS19
ATOM	50405	CB	LYS	S	32	243.739	95.355	35.902	1.00140.10	SS19
ATOM	50406	CG	LYS	S	32	243.235	95.264	37.333	1.00140.10	SS19
ATOM	50407	CD	LYS	S	32	241.892	94.540	37.381	1.00140.10	SS19
ATOM	50408	CE	LYS	S	32	241.962	93.175	36.705	1.00140.10	SS19
ATOM	50409	NZ	LYS	S	32	240.620	92.540	36.614	1.00140.10	SS19

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ATOM	50410	C	LYS	S	32	244.517	97.731	35.857	1.00139.25	SS19
ATOM	50411	O	LYS	S	32	243.946	98.098	36.884	1.00139.25	SS19
ATOM	50412	N	THR	S	33	244.820	98.552	34.857	1.00103.67	SS19
ATOM	50413	CA	THR	S	33	244.470	99.960	34.919	1.00103.67	SS19
ATOM	50414	CB	THR	S	33	245.710	100.857	34.712	1.00135.06	SS19
ATOM	50415	OG1	THR	S	33	246.716	100.505	35.668	1.00135.06	SS19
ATOM	50416	CG2	THR	S	33	245.357	102.317	34.916	1.00135.06	SS19
ATOM	50417	C	THR	S	33	243.415	100.312	33.884	1.00103.67	SS19
ATOM	50418	O	THR	S	33	243.127	99.543	32.969	1.00103.67	SS19
ATOM	50419	N	TRP	S	34	242.815	101.475	34.069	1.00147.47	SS19
ATOM	50420	CA	TRP	S	34	241.804	101.977	33.167	1.00147.47	SS19
ATOM	50421	CB	TRP	S	34	240.564	102.387	33.958	1.00111.89	SS19
ATOM	50422	CG	TRP	S	34	239.486	101.363	33.945	1.00111.89	SS19
ATOM	50423	CD2	TRP	S	34	239.369	100.225	34.806	1.00111.89	SS19
ATOM	50424	CE2	TRP	S	34	238.203	99.529	34.422	1.00111.89	SS19
ATOM	50425	CE3	TRP	S	34	240.135	99.724	35.865	1.00111.89	SS19
ATOM	50426	CD1	TRP	S	34	238.422	101.314	33.099	1.00111.89	SS19
ATOM	50427	NE1	TRP	S	34	237.643	100.216	33.378	1.00111.89	SS19
ATOM	50428	CZ2	TRP	S	34	237.781	98.359	35.059	1.00111.89	SS19
ATOM	50429	CZ3	TRP	S	34	239.714	98.556	36.502	1.00111.89	SS19
ATOM	50430	CH2	TRP	S	34	238.548	97.890	36.095	1.00111.89	SS19
ATOM	50431	C	TRP	S	34	242.438	103.186	32.505	1.00147.47	SS19
ATOM	50432	O	TRP	S	34	241.948	103.699	31.502	1.00147.47	SS19
ATOM	50433	N	SER	S	35	243.552	103.628	33.074	1.00127.31	SS19
ATOM	50434	CA	SER	S	35	244.256	104.782	32.547	1.00127.31	SS19
ATOM	50435	CB	SER	S	35	245.037	105.492	33.654	1.00124.25	SS19
ATOM	50436	OG	SER	S	35	245.710	106.628	33.140	1.00124.25	SS19
ATOM	50437	C	SER	S	35	245.207	104.399	31.436	1.00127.31	SS19
ATOM	50438	O	SER	S	35	246.416	104.285	31.645	1.00127.31	SS19
ATOM	50439	N	ARG	S	36	244.656	104.179	30.251	1.00101.48	SS19
ATOM	50440	CA	ARG	S	36	245.493	103.854	29.120	1.00101.48	SS19
ATOM	50441	CB	ARG	S	36	244.630	103.279	27.984	1.00 75.71	SS19
ATOM	50442	CG	ARG	S	36	243.615	104.239	27.366	1.00 75.71	SS19
ATOM	50443	CD	ARG	S	36	242.279	103.551	26.972	1.00 75.71	SS19
ATOM	50444	NE	ARG	S	36	242.414	102.229	26.338	1.00 75.71	SS19
ATOM	50445	CZ	ARG	S	36	242.801	102.003	25.081	1.00 75.71	SS19
ATOM	50446	NH1	ARG	S	36	243.103	103.011	24.274	1.00 75.71	SS19
ATOM	50447	NH2	ARG	S	36	242.893	100.755	24.636	1.00 75.71	SS19
ATOM	50448	C	ARG	S	36	246.142	105.199	28.759	1.00101.48	SS19
ATOM	50449	O	ARG	S	36	247.173	105.257	28.089	1.00101.48	SS19
ATOM	50450	N	ARG	S	37	245.536	106.271	29.271	1.00 77.29	SS19
ATOM	50451	CA	ARG	S	37	245.974	107.657	29.074	1.00 77.29	SS19
ATOM	50452	CB	ARG	S	37	245.114	108.597	29.938	1.00195.02	SS19
ATOM	50453	CG	ARG	S	37	243.641	108.676	29.573	1.00195.02	SS19
ATOM	50454	CD	ARG	S	37	243.413	109.634	28.409	1.00195.02	SS19
ATOM	50455	NE	ARG	S	37	242.022	109.653	27.959	1.00195.02	SS19
ATOM	50456	CZ	ARG	S	37	241.567	110.397	26.952	1.00195.02	SS19
ATOM	50457	NH1	ARG	S	37	242.390	111.194	26.281	1.00195.02	SS19
ATOM	50458	NH2	ARG	S	37	240.287	110.337	26.608	1.00195.02	SS19
ATOM	50459	C	ARG	S	37	247.442	107.921	29.429	1.00 77.29	SS19
ATOM	50460	O	ARG	S	37	248.023	108.927	28.993	1.00 77.29	SS19
ATOM	50461	N	SER	S	38	248.025	107.022	30.223	1.00122.93	SS19
ATOM	50462	CA	SER	S	38	249.396	107.168	30.721	1.00122.93	SS19
ATOM	50463	CB	SER	S	38	249.532	106.431	32.058	1.00132.70	SS19
ATOM	50464	OG	SER	S	38	249.249	105.050	31.907	1.00132.70	SS19
ATOM	50465	C	SER	S	38	250.558	106.758	29.831	1.00122.93	SS19
ATOM	50466	O	SER	S	38	250.403	105.961	28.908	1.00122.93	SS19
ATOM	50467	N	THR	S	39	251.727	107.321	30.147	1.00101.51	SS19
ATOM	50468	CA	THR	S	39	252.981	107.056	29.439	1.00101.51	SS19
ATOM	50469	CB	THR	S	39	253.903	108.287	29.442	1.00 86.88	SS19
ATOM	50470	OG1	THR	S	39	253.364	109.293	28.578	1.00 86.88	SS19
ATOM	50471	CG2	THR	S	39	255.314	107.905	28.996	1.00 86.88	SS19
ATOM	50472	C	THR	S	39	253.721	105.950	30.171	1.00101.51	SS19
ATOM	50473	O	THR	S	39	253.631	105.856	31.395	1.00101.51	SS19
ATOM	50474	N	ILE	S	40	254.457	105.117	29.441	1.00113.77	SS19
ATOM	50475	CA	ILE	S	40	255.194	104.048	30.097	1.00113.77	SS19
ATOM	50476	CB	ILE	S	40	255.227	102.748	29.265	1.00 75.74	SS19
ATOM	50477	CG2	ILE	S	40	256.252	101.779	29.843	1.00 75.74	SS19
ATOM	50478	CG1	ILE	S	40	253.839	102.100	29.273	1.00 75.74	SS19
ATOM	50479	CD1	ILE	S	40	253.817	100.659	28.777	1.00 75.74	SS19
ATOM	50480	C	ILE	S	40	256.613	104.464	30.433	1.00113.77	SS19
ATOM	50481	O	ILE	S	40	257.331	105.052	29.613	1.00113.77	SS19
ATOM	50482	N	VAL	S	41	256.994	104.147	31.666	1.00124.97	SS19
ATOM	50483	CA	VAL	S	41	258.305	104.462	32.199	1.00124.97	SS19
ATOM	50484	CB	VAL	S	41	258.168	105.351	33.449	1.00112.15	SS19
ATOM	50485	CG1	VAL	S	41	257.665	106.734	33.050	1.00112.15	SS19
ATOM	50486	CG2	VAL	S	41	257.193	104.713	34.428	1.00112.15	SS19

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ATOM	50487	C	VAL	S	41	259.050	103.175	32.554	1.00124.97	SS19
ATOM	50488	O	VAL	S	41	258.434	102.158	32.882	1.00124.97	SS19
ATOM	50489	N	PRO	S	42	260.392	103.215	32.502	1.00122.92	SS19
ATOM	50490	CD	PRO	S	42	261.178	104.455	32.332	1.00106.02	SS19
ATOM	50491	CA	PRO	S	42	261.276	102.083	32.802	1.00122.92	SS19
ATOM	50492	CB	PRO	S	42	262.584	102.773	33.174	1.00106.02	SS19
ATOM	50493	CG	PRO	S	42	262.603	103.941	32.232	1.00106.02	SS19
ATOM	50494	C	PRO	S	42	260.791	101.114	33.886	1.00122.92	SS19
ATOM	50495	O	PRO	S	42	260.748	99.899	33.667	1.00122.92	SS19
ATOM	50496	N	GLU	S	43	260.434	101.649	35.052	1.00126.43	SS19
ATOM	50497	CA	GLU	S	43	259.970	100.820	36.164	1.00126.43	SS19
ATOM	50498	CB	GLU	S	43	259.428	101.694	37.303	1.00147.43	SS19
ATOM	50499	CG	GLU	S	43	258.999	103.081	36.880	1.00147.43	SS19
ATOM	50500	CD	GLU	S	43	260.184	103.995	36.641	1.00147.43	SS19
ATOM	50501	OE1	GLU	S	43	260.893	104.306	37.621	1.00147.43	SS19
ATOM	50502	OE2	GLU	S	43	260.413	104.397	35.481	1.00147.43	SS19
ATOM	50503	C	GLU	S	43	258.907	99.804	35.762	1.00126.43	SS19
ATOM	50504	O	GLU	S	43	258.839	98.709	36.325	1.00126.43	SS19
ATOM	50505	N	MET	S	44	258.084	100.169	34.785	1.00157.71	SS19
ATOM	50506	CA	MET	S	44	257.014	99.296	34.328	1.00157.71	SS19
ATOM	50507	CB	MET	S	44	256.023	100.093	33.485	1.00126.79	SS19
ATOM	50508	CG	MET	S	44	255.409	101.256	34.230	1.00126.79	SS19
ATOM	50509	SD	MET	S	44	254.301	102.216	33.197	1.00126.79	SS19
ATOM	50510	CE	MET	S	44	253.792	103.505	34.347	1.00126.79	SS19
ATOM	50511	C	MET	S	44	257.505	98.092	33.538	1.00157.71	SS19
ATOM	50512	O	MET	S	44	256.761	97.129	33.353	1.00157.71	SS19
ATOM	50513	N	VAL	S	45	258.753	98.136	33.079	1.00102.81	SS19
ATOM	50514	CA	VAL	S	45	259.292	97.022	32.306	1.00102.81	SS19
ATOM	50515	CB	VAL	S	45	260.770	97.263	31.896	1.00 71.41	SS19
ATOM	50516	CG1	VAL	S	45	261.229	96.156	30.953	1.00 71.41	SS19
ATOM	50517	CG2	VAL	S	45	260.919	98.616	31.208	1.00 71.41	SS19
ATOM	50518	C	VAL	S	45	259.193	95.726	33.113	1.00102.81	SS19
ATOM	50519	O	VAL	S	45	259.038	95.755	34.332	1.00102.81	SS19
ATOM	50520	N	GLY	S	46	259.271	94.592	32.426	1.00103.77	SS19
ATOM	50521	CA	GLY	S	46	259.175	93.318	33.108	1.00103.77	SS19
ATOM	50522	C	GLY	S	46	257.765	93.067	33.613	1.00103.77	SS19
ATOM	50523	O	GLY	S	46	257.341	91.914	33.728	1.00103.77	SS19
ATOM	50524	N	HIS	S	47	257.033	94.143	33.906	1.00125.45	SS19
ATOM	50525	CA	HIS	S	47	255.664	94.038	34.409	1.00125.45	SS19
ATOM	50526	CB	HIS	S	47	255.251	95.346	35.076	1.00144.39	SS19
ATOM	50527	CG	HIS	S	47	255.918	95.582	36.395	1.00144.39	SS19
ATOM	50528	CD2	HIS	S	47	256.769	96.552	36.805	1.00144.39	SS19
ATOM	50529	ND1	HIS	S	47	255.740	94.747	37.477	1.00144.39	SS19
ATOM	50530	CE1	HIS	S	47	256.452	95.194	38.498	1.00144.39	SS19
ATOM	50531	NE2	HIS	S	47	257.085	96.288	38.116	1.00144.39	SS19
ATOM	50532	C	HIS	S	47	254.647	93.661	33.343	1.00125.45	SS19
ATOM	50533	O	HIS	S	47	254.926	93.739	32.152	1.00125.45	SS19
ATOM	50534	N	THR	S	48	253.459	93.257	33.779	1.00109.14	SS19
ATOM	50535	CA	THR	S	48	252.404	92.846	32.859	1.00109.14	SS19
ATOM	50536	CB	THR	S	48	252.133	91.338	32.989	1.00135.29	SS19
ATOM	50537	OG1	THR	S	48	253.366	90.621	32.869	1.00135.29	SS19
ATOM	50538	CG2	THR	S	48	251.183	90.871	31.908	1.00135.29	SS19
ATOM	50539	C	THR	S	48	251.101	93.589	33.121	1.00109.14	SS19
ATOM	50540	O	THR	S	48	250.140	93.004	33.617	1.00109.14	SS19
ATOM	50541	N	ILE	S	49	251.067	94.872	32.772	1.00139.09	SS19
ATOM	50542	CA	ILE	S	49	249.884	95.708	32.976	1.00139.09	SS19
ATOM	50543	CB	ILE	S	49	250.233	97.192	32.808	1.00108.34	SS19
ATOM	50544	CG2	ILE	S	49	249.036	98.049	33.178	1.00108.34	SS19
ATOM	50545	CG1	ILE	S	49	251.444	97.540	33.672	1.00108.34	SS19
ATOM	50546	CD1	ILE	S	49	251.971	98.948	33.456	1.00108.34	SS19
ATOM	50547	C	ILE	S	49	248.738	95.396	32.011	1.00139.09	SS19
ATOM	50548	O	ILE	S	49	248.901	95.493	30.795	1.00139.09	SS19
ATOM	50549	N	ALA	S	50	247.576	95.039	32.555	1.00121.13	SS19
ATOM	50550	CA	ALA	S	50	246.401	94.732	31.738	1.00121.13	SS19
ATOM	50551	CB	ALA	S	50	245.526	93.695	32.431	1.00 62.84	SS19
ATOM	50552	C	ALA	S	50	245.601	96.007	31.499	1.00121.13	SS19
ATOM	50553	O	ALA	S	50	245.261	96.721	32.446	1.00121.13	SS19
ATOM	50554	N	VAL	S	51	245.296	96.284	30.233	1.00108.76	SS19
ATOM	50555	CA	VAL	S	51	244.553	97.487	29.882	1.00108.76	SS19
ATOM	50556	CB	VAL	S	51	245.294	98.295	28.792	1.00 87.11	SS19
ATOM	50557	CG1	VAL	S	51	244.765	99.722	28.748	1.00 87.11	SS19
ATOM	50558	CG2	VAL	S	51	246.788	98.289	29.068	1.00 87.11	SS19
ATOM	50559	C	VAL	S	51	243.121	97.206	29.419	1.00108.76	SS19
ATOM	50560	O	VAL	S	51	242.773	96.082	29.051	1.00108.76	SS19
ATOM	50561	N	TYR	S	52	242.305	98.254	29.439	1.00111.01	SS19
ATOM	50562	CA	TYR	S	52	240.899	98.175	29.066	1.00111.01	SS19
ATOM	50563	CB	TYR	S	52	240.082	99.043	30.044	1.00 83.85	SS19

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ATOM	50564	CG	TYR	S	52	238.613	98.669	30.210	1.00	83.85	SS19
ATOM	50565	CD1	TYR	S	52	238.233	97.346	30.475	1.00	83.85	SS19
ATOM	50566	CE1	TYR	S	52	236.900	96.996	30.636	1.00	83.85	SS19
ATOM	50567	CD2	TYR	S	52	237.609	99.643	30.118	1.00	83.85	SS19
ATOM	50568	CE2	TYR	S	52	236.267	99.304	30.283	1.00	83.85	SS19
ATOM	50569	CZ	TYR	S	52	235.918	97.974	30.539	1.00	83.85	SS19
ATOM	50570	OH	TYR	S	52	234.588	97.615	30.669	1.00	83.85	SS19
ATOM	50571	C	TYR	S	52	240.654	98.625	27.622	1.00	111.01	SS19
ATOM	50572	O	TYR	S	52	241.303	99.544	27.121	1.00	111.01	SS19
ATOM	50573	N	ASN	S	53	239.718	97.955	26.960	1.00	107.03	SS19
ATOM	50574	CA	ASN	S	53	239.347	98.279	25.590	1.00	107.03	SS19
ATOM	50575	CB	ASN	S	53	238.908	97.027	24.850	1.00	106.55	SS19
ATOM	50576	CG	ASN	S	53	239.952	95.970	24.852	1.00	106.55	SS19
ATOM	50577	OD1	ASN	S	53	239.694	94.834	24.459	1.00	106.55	SS19
ATOM	50578	ND2	ASN	S	53	241.154	96.327	25.290	1.00	106.55	SS19
ATOM	50579	C	ASN	S	53	238.139	99.180	25.689	1.00	107.03	SS19
ATOM	50580	O	ASN	S	53	237.888	100.037	24.837	1.00	107.03	SS19
ATOM	50581	N	GLY	S	54	237.397	98.952	26.761	1.00	99.71	SS19
ATOM	50582	CA	GLY	S	54	236.165	99.661	27.016	1.00	99.71	SS19
ATOM	50583	C	GLY	S	54	235.247	98.480	27.230	1.00	99.71	SS19
ATOM	50584	O	GLY	S	54	234.068	98.617	27.560	1.00	99.71	SS19
ATOM	50585	N	LYS	S	55	235.832	97.297	27.039	1.00	81.06	SS19
ATOM	50586	CA	LYS	S	55	235.120	96.044	27.205	1.00	81.06	SS19
ATOM	50587	CB	LYS	S	55	234.713	95.491	25.838	1.00	130.57	SS19
ATOM	50588	CG	LYS	S	55	233.978	94.167	25.917	1.00	130.57	SS19
ATOM	50589	CD	LYS	S	55	233.598	93.654	24.546	1.00	130.57	SS19
ATOM	50590	CE	LYS	S	55	232.782	92.374	24.662	1.00	130.57	SS19
ATOM	50591	NZ	LYS	S	55	232.368	91.844	23.328	1.00	130.57	SS19
ATOM	50592	C	LYS	S	55	235.955	94.997	27.946	1.00	81.06	SS19
ATOM	50593	O	LYS	S	55	235.463	94.347	28.875	1.00	81.06	SS19
ATOM	50594	N	GLN	S	56	237.213	94.841	27.533	1.00	118.16	SS19
ATOM	50595	CA	GLN	S	56	238.106	93.845	28.130	1.00	118.16	SS19
ATOM	50596	CB	GLN	S	56	238.601	92.873	27.057	1.00	129.24	SS19
ATOM	50597	CG	GLN	S	56	237.506	92.107	26.376	1.00	129.24	SS19
ATOM	50598	CD	GLN	S	56	236.668	91.344	27.365	1.00	129.24	SS19
ATOM	50599	OE1	GLN	S	56	237.154	90.424	28.018	1.00	129.24	SS19
ATOM	50600	NE2	GLN	S	56	235.402	91.729	27.496	1.00	129.24	SS19
ATOM	50601	C	GLN	S	56	239.325	94.410	28.833	1.00	118.16	SS19
ATOM	50602	O	GLN	S	56	239.605	95.605	28.766	1.00	118.16	SS19
ATOM	50603	N	HIS	S	57	240.051	93.517	29.501	1.00	104.77	SS19
ATOM	50604	CA	HIS	S	57	241.281	93.856	30.210	1.00	104.77	SS19
ATOM	50605	CB	HIS	S	57	241.124	93.610	31.719	1.00	108.92	SS19
ATOM	50606	CG	HIS	S	57	240.758	94.837	32.496	1.00	108.92	SS19
ATOM	50607	CD2	HIS	S	57	239.592	95.215	33.072	1.00	108.92	SS19
ATOM	50608	ND1	HIS	S	57	241.646	95.869	32.718	1.00	108.92	SS19
ATOM	50609	CE1	HIS	S	57	241.042	96.830	33.396	1.00	108.92	SS19
ATOM	50610	NE2	HIS	S	57	239.795	96.458	33.623	1.00	108.92	SS19
ATOM	50611	C	HIS	S	57	242.380	92.966	29.634	1.00	104.77	SS19
ATOM	50612	O	HIS	S	57	242.560	91.825	30.055	1.00	104.77	SS19
ATOM	50613	N	VAL	S	58	243.108	93.486	28.654	1.00	105.73	SS19
ATOM	50614	CA	VAL	S	58	244.159	92.700	28.027	1.00	105.73	SS19
ATOM	50615	CB	VAL	S	58	244.258	92.961	26.505	1.00	94.40	SS19
ATOM	50616	CG1	VAL	S	58	243.088	92.301	25.800	1.00	94.40	SS19
ATOM	50617	CG2	VAL	S	58	244.299	94.468	26.224	1.00	94.40	SS19
ATOM	50618	C	VAL	S	58	245.543	92.878	28.601	1.00	105.73	SS19
ATOM	50619	O	VAL	S	58	245.991	93.993	28.862	1.00	105.73	SS19
ATOM	50620	N	PRO	S	59	246.241	91.757	28.802	1.00	111.90	SS19
ATOM	50621	CD	PRO	S	59	245.709	90.393	28.631	1.00	92.27	SS19
ATOM	50622	CA	PRO	S	59	247.599	91.717	29.338	1.00	111.90	SS19
ATOM	50623	CB	PRO	S	59	247.786	90.234	29.648	1.00	92.27	SS19
ATOM	50624	CG	PRO	S	59	246.965	89.567	28.586	1.00	92.27	SS19
ATOM	50625	C	PRO	S	59	248.612	92.240	28.307	1.00	111.90	SS19
ATOM	50626	O	PRO	S	59	248.619	91.800	27.157	1.00	111.90	SS19
ATOM	50627	N	VAL	S	60	249.457	93.180	28.723	1.00	131.57	SS19
ATOM	50628	CA	VAL	S	60	250.471	93.756	27.840	1.00	131.57	SS19
ATOM	50629	CB	VAL	S	60	250.141	95.228	27.477	1.00	87.71	SS19
ATOM	50630	CG1	VAL	S	60	251.151	95.763	26.469	1.00	87.71	SS19
ATOM	50631	CG2	VAL	S	60	248.735	95.324	26.923	1.00	87.71	SS19
ATOM	50632	C	VAL	S	60	251.852	93.734	28.496	1.00	131.57	SS19
ATOM	50633	O	VAL	S	60	252.221	94.673	29.206	1.00	131.57	SS19
ATOM	50634	N	TYR	S	61	252.611	92.665	28.266	1.00	123.13	SS19
ATOM	50635	CA	TYR	S	61	253.954	92.558	28.828	1.00	123.13	SS19
ATOM	50636	CB	TYR	S	61	254.578	91.209	28.434	1.00	148.42	SS19
ATOM	50637	CG	TYR	S	61	255.979	90.941	28.967	1.00	148.42	SS19
ATOM	50638	CD1	TYR	S	61	256.445	89.632	29.109	1.00	148.42	SS19
ATOM	50639	CE1	TYR	S	61	257.742	89.371	29.556	1.00	148.42	SS19
ATOM	50640	CD2	TYR	S	61	256.850	91.986	29.289	1.00	148.42	SS19

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ATOM	50641	CE2	TYR	S	61	258.148	91.736	29.734	1.00148.42	SS19
ATOM	50642	CZ	TYR	S	61	258.586	90.428	29.865	1.00148.42	SS19
ATOM	50643	OH	TYR	S	61	259.867	90.178	30.301	1.00148.42	SS19
ATOM	50644	C	TYR	S	61	254.775	93.732	28.284	1.00123.13	SS19
ATOM	50645	O	TYR	S	61	255.075	93.798	27.086	1.00123.13	SS19
ATOM	50646	N	ILE	S	62	255.122	94.658	29.176	1.00112.40	SS19
ATOM	50647	CA	ILE	S	62	255.885	95.852	28.816	1.00112.40	SS19
ATOM	50648	CB	ILE	S	62	255.465	97.060	29.730	1.00135.71	SS19
ATOM	50649	CG2	ILE	S	62	255.051	96.566	31.101	1.00135.71	SS19
ATOM	50650	CG1	ILE	S	62	256.588	98.095	29.813	1.00135.71	SS19
ATOM	50651	CD1	ILE	S	62	256.859	98.810	28.515	1.00135.71	SS19
ATOM	50652	C	ILE	S	62	257.407	95.647	28.837	1.00112.40	SS19
ATOM	50653	O	ILE	S	62	258.004	95.394	29.884	1.00112.40	SS19
ATOM	50654	N	THR	S	63	258.016	95.760	27.654	1.00131.19	SS19
ATOM	50655	CA	THR	S	63	259.456	95.591	27.472	1.00131.19	SS19
ATOM	50656	CB	THR	S	63	259.755	94.608	26.325	1.00103.78	SS19
ATOM	50657	OG1	THR	S	63	259.041	93.389	26.554	1.00103.78	SS19
ATOM	50658	CG2	THR	S	63	261.251	94.299	26.249	1.00103.78	SS19
ATOM	50659	C	THR	S	63	260.113	96.925	27.141	1.00131.19	SS19
ATOM	50660	O	THR	S	63	259.450	97.853	26.688	1.00131.19	SS19
ATOM	50661	N	GLU	S	64	261.420	97.007	27.360	1.00106.72	SS19
ATOM	50662	CA	GLU	S	64	262.182	98.225	27.106	1.00106.72	SS19
ATOM	50663	CB	GLU	S	64	263.681	97.910	27.131	1.00174.04	SS19
ATOM	50664	CG	GLU	S	64	264.571	99.137	27.246	1.00174.04	SS19
ATOM	50665	CD	GLU	S	64	264.487	99.783	28.615	1.00174.04	SS19
ATOM	50666	OE1	GLU	S	64	264.932	99.148	29.593	1.00174.04	SS19
ATOM	50667	OE2	GLU	S	64	263.974	100.919	28.717	1.00174.04	SS19
ATOM	50668	C	GLU	S	64	261.829	98.911	25.779	1.00106.72	SS19
ATOM	50669	O	GLU	S	64	261.471	100.091	25.750	1.00106.72	SS19
ATOM	50670	N	ASN	S	65	261.935	98.163	24.685	1.00148.05	SS19
ATOM	50671	CA	ASN	S	65	261.655	98.675	23.343	1.00148.05	SS19
ATOM	50672	CB	ASN	S	65	261.666	97.512	22.349	1.00129.80	SS19
ATOM	50673	CG	ASN	S	65	260.821	96.340	22.818	1.00129.80	SS19
ATOM	50674	OD1	ASN	S	65	261.085	95.751	23.866	1.00129.80	SS19
ATOM	50675	ND2	ASN	S	65	259.798	95.999	22.045	1.00129.80	SS19
ATOM	50676	C	ASN	S	65	260.346	99.455	23.195	1.00148.05	SS19
ATOM	50677	O	ASN	S	65	260.137	100.136	22.187	1.00148.05	SS19
ATOM	50678	N	MET	S	66	259.474	99.362	24.195	1.00125.16	SS19
ATOM	50679	CA	MET	S	66	258.181	100.044	24.155	1.00125.16	SS19
ATOM	50680	CB	MET	S	66	257.050	99.003	24.126	1.00116.64	SS19
ATOM	50681	CG	MET	S	66	257.073	98.000	25.282	1.00116.64	SS19
ATOM	50682	SD	MET	S	66	255.816	96.681	25.183	1.00116.64	SS19
ATOM	50683	CE	MET	S	66	256.755	95.341	24.382	1.00116.64	SS19
ATOM	50684	C	MET	S	66	257.971	100.986	25.333	1.00125.16	SS19
ATOM	50685	O	MET	S	66	256.884	101.029	25.902	1.00125.16	SS19
ATOM	50686	N	VAL	S	67	258.994	101.754	25.688	1.00152.10	SS19
ATOM	50687	CA	VAL	S	67	258.864	102.649	26.829	1.00152.10	SS19
ATOM	50688	CB	VAL	S	67	260.241	103.096	27.365	1.00106.91	SS19
ATOM	50689	CG1	VAL	S	67	260.050	104.050	28.546	1.00106.91	SS19
ATOM	50690	CG2	VAL	S	67	261.042	101.886	27.814	1.00106.91	SS19
ATOM	50691	C	VAL	S	67	258.008	103.889	26.602	1.00152.10	SS19
ATOM	50692	O	VAL	S	67	256.809	103.869	26.870	1.00152.10	SS19
ATOM	50693	N	GLY	S	68	258.627	104.963	26.119	1.00107.88	SS19
ATOM	50694	CA	GLY	S	68	257.913	106.212	25.896	1.00107.88	SS19
ATOM	50695	C	GLY	S	68	256.464	106.143	25.432	1.00107.88	SS19
ATOM	50696	O	GLY	S	68	255.729	107.126	25.566	1.00107.88	SS19
ATOM	50697	N	HIS	S	69	256.050	104.995	24.894	1.00118.70	SS19
ATOM	50698	CA	HIS	S	69	254.691	104.804	24.387	1.00118.70	SS19
ATOM	50699	CB	HIS	S	69	254.609	103.471	23.652	1.00117.27	SS19
ATOM	50700	CG	HIS	S	69	255.439	103.437	22.410	1.00117.27	SS19
ATOM	50701	CD2	HIS	S	69	256.553	102.733	22.098	1.00117.27	SS19
ATOM	50702	ND1	HIS	S	69	255.188	104.256	21.329	1.00117.27	SS19
ATOM	50703	CE1	HIS	S	69	256.111	104.059	20.407	1.00117.27	SS19
ATOM	50704	NE2	HIS	S	69	256.952	103.139	20.848	1.00117.27	SS19
ATOM	50705	C	HIS	S	69	253.597	104.919	25.436	1.00118.70	SS19
ATOM	50706	O	HIS	S	69	253.847	105.427	26.526	1.00118.70	SS19
ATOM	50707	N	LYS	S	70	252.387	104.453	25.126	1.00 96.90	SS19
ATOM	50708	CA	LYS	S	70	251.296	104.601	26.084	1.00 96.90	SS19
ATOM	50709	CB	LYS	S	70	250.517	105.879	25.769	1.00 72.92	SS19
ATOM	50710	CG	LYS	S	70	251.375	107.106	25.706	1.00 72.92	SS19
ATOM	50711	CD	LYS	S	70	250.536	108.356	25.700	1.00 72.92	SS19
ATOM	50712	CE	LYS	S	70	251.435	109.579	25.734	1.00 72.92	SS19
ATOM	50713	NZ	LYS	S	70	250.729	110.747	26.322	1.00 72.92	SS19
ATOM	50714	C	LYS	S	70	250.285	103.483	26.302	1.00 96.90	SS19
ATOM	50715	O	LYS	S	70	249.104	103.669	26.029	1.00 96.90	SS19
ATOM	50716	N	LEU	S	71	250.734	102.345	26.822	1.00135.71	SS19
ATOM	50717	CA	LEU	S	71	249.842	101.222	27.121	1.00135.71	SS19

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ATOM	50718	CB	LEU	S	71	249.272	101.393	28.532	1.00	99.33	SS19
ATOM	50719	CG	LEU	S	71	250.304	101.472	29.663	1.00	99.33	SS19
ATOM	50720	CD1	LEU	S	71	249.752	102.312	30.801	1.00	99.33	SS19
ATOM	50721	CD2	LEU	S	71	250.672	100.068	30.129	1.00	99.33	SS19
ATOM	50722	C	LEU	S	71	248.694	101.040	26.128	1.00	135.71	SS19
ATOM	50723	O	LEU	S	71	248.675	100.069	25.378	1.00	135.71	SS19
ATOM	50724	N	GLY	S	72	247.730	101.960	26.146	1.00	123.91	SS19
ATOM	50725	CA	GLY	S	72	246.599	101.889	25.234	1.00	123.91	SS19
ATOM	50726	C	GLY	S	72	246.992	101.505	23.817	1.00	123.91	SS19
ATOM	50727	O	GLY	S	72	246.275	100.766	23.140	1.00	123.91	SS19
ATOM	50728	N	GLU	S	73	248.134	102.015	23.369	1.00	97.19	SS19
ATOM	50729	CA	GLU	S	73	248.648	101.714	22.040	1.00	97.19	SS19
ATOM	50730	CB	GLU	S	73	249.985	102.414	21.807	1.00	112.34	SS19
ATOM	50731	CG	GLU	S	73	249.940	103.914	21.756	1.00	112.34	SS19
ATOM	50732	CD	GLU	S	73	251.324	104.511	21.594	1.00	112.34	SS19
ATOM	50733	OE1	GLU	S	73	252.053	104.076	20.677	1.00	112.34	SS19
ATOM	50734	OE2	GLU	S	73	251.687	105.416	22.376	1.00	112.34	SS19
ATOM	50735	C	GLU	S	73	248.887	100.216	21.926	1.00	97.19	SS19
ATOM	50736	O	GLU	S	73	249.141	99.701	20.837	1.00	97.19	SS19
ATOM	50737	N	PHE	S	74	248.822	99.522	23.058	1.00	90.16	SS19
ATOM	50738	CA	PHE	S	74	249.074	98.083	23.092	1.00	90.16	SS19
ATOM	50739	CB	PHE	S	74	250.205	97.792	24.092	1.00	98.38	SS19
ATOM	50740	CG	PHE	S	74	251.475	98.568	23.807	1.00	98.38	SS19
ATOM	50741	CD1	PHE	S	74	251.478	99.967	23.835	1.00	98.38	SS19
ATOM	50742	CD2	PHE	S	74	252.649	97.910	23.456	1.00	98.38	SS19
ATOM	50743	CE1	PHE	S	74	252.625	100.695	23.512	1.00	98.38	SS19
ATOM	50744	CE2	PHE	S	74	253.803	98.634	23.132	1.00	98.38	SS19
ATOM	50745	CZ	PHE	S	74	253.786	100.028	23.159	1.00	98.38	SS19
ATOM	50746	C	PHE	S	74	247.804	97.298	23.425	1.00	90.16	SS19
ATOM	50747	O	PHE	S	74	247.812	96.064	23.540	1.00	90.16	SS19
ATOM	50748	N	ALA	S	75	246.711	98.040	23.564	1.00	115.39	SS19
ATOM	50749	CA	ALA	S	75	245.403	97.473	23.840	1.00	115.39	SS19
ATOM	50750	CB	ALA	S	75	244.930	97.869	25.228	1.00	146.88	SS19
ATOM	50751	C	ALA	S	75	244.515	98.100	22.779	1.00	115.39	SS19
ATOM	50752	O	ALA	S	75	244.008	99.205	22.961	1.00	115.39	SS19
ATOM	50753	N	PRO	S	76	244.332	97.405	21.647	1.00	117.44	SS19
ATOM	50754	CD	PRO	S	76	244.680	95.980	21.484	1.00	92.02	SS19
ATOM	50755	CA	PRO	S	76	243.509	97.874	20.525	1.00	117.44	SS19
ATOM	50756	CB	PRO	S	76	243.606	96.724	19.534	1.00	92.02	SS19
ATOM	50757	CG	PRO	S	76	243.685	95.520	20.444	1.00	92.02	SS19
ATOM	50758	C	PRO	S	76	242.070	98.153	20.954	1.00	117.44	SS19
ATOM	50759	O	PRO	S	76	241.547	97.491	21.850	1.00	117.44	SS19
ATOM	50760	N	THR	S	77	241.427	99.129	20.320	1.00	96.07	SS19
ATOM	50761	CA	THR	S	77	240.057	99.458	20.690	1.00	96.07	SS19
ATOM	50762	CB	THR	S	77	239.754	100.959	20.543	1.00	85.74	SS19
ATOM	50763	OG1	THR	S	77	240.278	101.673	21.665	1.00	85.74	SS19
ATOM	50764	CG2	THR	S	77	238.266	101.184	20.487	1.00	85.74	SS19
ATOM	50765	C	THR	S	77	239.008	98.719	19.891	1.00	96.07	SS19
ATOM	50766	O	THR	S	77	238.112	98.101	20.462	1.00	96.07	SS19
ATOM	50767	N	ARG	S	78	239.109	98.792	18.570	1.00	87.88	SS19
ATOM	50768	CA	ARG	S	78	238.123	98.149	17.712	1.00	87.88	SS19
ATOM	50769	CB	ARG	S	78	237.859	99.005	16.473	1.00	82.53	SS19
ATOM	50770	CG	ARG	S	78	238.704	100.246	16.394	1.00	82.53	SS19
ATOM	50771	CD	ARG	S	78	237.805	101.426	16.195	1.00	82.53	SS19
ATOM	50772	NE	ARG	S	78	238.452	102.673	16.566	1.00	82.53	SS19
ATOM	50773	CZ	ARG	S	78	237.866	103.854	16.439	1.00	82.53	SS19
ATOM	50774	NH1	ARG	S	78	236.637	103.909	15.951	1.00	82.53	SS19
ATOM	50775	NH2	ARG	S	78	238.494	104.968	16.793	1.00	82.53	SS19
ATOM	50776	C	ARG	S	78	238.462	96.746	17.259	1.00	87.88	SS19
ATOM	50777	O	ARG	S	78	239.547	96.220	17.522	1.00	87.88	SS19
ATOM	50778	N	THR	S	79	237.501	96.156	16.560	1.00	107.28	SS19
ATOM	50779	CA	THR	S	79	237.627	94.820	16.017	1.00	107.28	SS19
ATOM	50780	CB	THR	S	79	236.619	93.862	16.687	1.00	96.26	SS19
ATOM	50781	OG1	THR	S	79	236.729	93.959	18.115	1.00	96.26	SS19
ATOM	50782	CG2	THR	S	79	236.894	92.435	16.265	1.00	96.26	SS19
ATOM	50783	C	THR	S	79	237.294	94.952	14.530	1.00	107.28	SS19
ATOM	50784	O	THR	S	79	236.157	95.269	14.177	1.00	107.28	SS19
ATOM	50785	N	TYR	S	80	238.283	94.745	13.664	1.00	83.18	SS19
ATOM	50786	CA	TYR	S	80	238.055	94.842	12.221	1.00	83.18	SS19
ATOM	50787	CB	TYR	S	80	238.956	95.913	11.599	1.00	123.46	SS19
ATOM	50788	CG	TYR	S	80	238.771	96.044	10.100	1.00	123.46	SS19
ATOM	50789	CD1	TYR	S	80	237.906	96.993	9.561	1.00	123.46	SS19
ATOM	50790	CE1	TYR	S	80	237.676	97.060	8.184	1.00	123.46	SS19
ATOM	50791	CD2	TYR	S	80	239.406	95.164	9.222	1.00	123.46	SS19
ATOM	50792	CE2	TYR	S	80	239.178	95.214	7.851	1.00	123.46	SS19
ATOM	50793	CZ	TYR	S	80	238.313	96.162	7.337	1.00	123.46	SS19
ATOM	50794	OH	TYR	S	80	238.074	96.198	5.980	1.00	123.46	SS19

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ATOM	50795	C	TYR	S	80	238.323	93.504	11.528	1.00	83.18	SS19
ATOM	50796	O	TYR	S	80	239.107	92.687	12.021	1.00	83.18	SS19
ATOM	50797	N	ARG	S	81	237.677	93.284	10.381	1.00	120.27	SS19
ATOM	50798	CA	ARG	S	81	237.874	92.049	9.628	1.00	120.27	SS19
ATOM	50799	CB	ARG	S	81	239.325	91.984	9.132	1.00	171.38	SS19
ATOM	50800	CG	ARG	S	81	239.781	90.671	8.515	1.00	171.38	SS19
ATOM	50801	CD	ARG	S	81	241.206	90.816	7.961	1.00	171.38	SS19
ATOM	50802	NE	ARG	S	81	241.813	89.543	7.566	1.00	171.38	SS19
ATOM	50803	CZ	ARG	S	81	242.395	88.691	8.406	1.00	171.38	SS19
ATOM	50804	NH1	ARG	S	81	242.459	88.970	9.701	1.00	171.38	SS19
ATOM	50805	NH2	ARG	S	81	242.910	87.554	7.953	1.00	171.38	SS19
ATOM	50806	C	ARG	S	81	237.555	90.875	10.545	1.00	120.27	SS19
ATOM	50807	O	ARG	S	81	238.499	90.222	11.032	1.00	120.27	SS19
ATOM	50808	OXT	ARG	S	81	236.354	90.644	10.793	1.00	195.12	SS19
TER	50808		ARG	S	81						SS19
ATOM	50809	CB	ARG	T	8	132.049	42.174	9.648	1.00	121.53	TS20
ATOM	50810	CG	ARG	T	8	133.558	42.075	9.581	1.00	121.53	TS20
ATOM	50811	CD	ARG	T	8	133.945	40.627	9.435	1.00	121.53	TS20
ATOM	50812	NE	ARG	T	8	135.281	40.360	9.952	1.00	121.53	TS20
ATOM	50813	CZ	ARG	T	8	135.672	39.180	10.435	1.00	121.53	TS20
ATOM	50814	NH1	ARG	T	8	134.821	38.157	10.470	1.00	121.53	TS20
ATOM	50815	NH2	ARG	T	8	136.918	39.017	10.879	1.00	121.53	TS20
ATOM	50816	C	ARG	T	8	129.982	43.473	10.087	1.00	95.29	TS20
ATOM	50817	O	ARG	T	8	129.343	44.094	10.929	1.00	95.29	TS20
ATOM	50818	N	ARG	T	8	132.042	43.978	11.354	1.00	95.29	TS20
ATOM	50819	CA	ARG	T	8	131.500	43.550	10.031	1.00	95.29	TS20
ATOM	50820	N	ASN	T	9	129.413	42.704	9.171	1.00	102.01	TS20
ATOM	50821	CA	ASN	T	9	127.973	42.505	9.108	1.00	102.01	TS20
ATOM	50822	CB	ASN	T	9	127.574	41.359	10.036	1.00	167.06	TS20
ATOM	50823	CG	ASN	T	9	128.197	40.046	9.626	1.00	167.06	TS20
ATOM	50824	OD1	ASN	T	9	127.938	39.536	8.535	1.00	167.06	TS20
ATOM	50825	ND2	ASN	T	9	129.031	39.493	10.497	1.00	167.06	TS20
ATOM	50826	C	ASN	T	9	127.113	43.721	9.418	1.00	102.01	TS20
ATOM	50827	O	ASN	T	9	126.782	43.991	10.576	1.00	102.01	TS20
ATOM	50828	N	LEU	T	10	126.764	44.452	8.366	1.00	66.79	TS20
ATOM	50829	CA	LEU	T	10	125.900	45.612	8.486	1.00	66.79	TS20
ATOM	50830	CB	LEU	T	10	126.403	46.753	7.596	1.00	116.91	TS20
ATOM	50831	CG	LEU	T	10	126.089	48.212	7.976	1.00	116.91	TS20
ATOM	50832	CD1	LEU	T	10	124.577	48.437	8.124	1.00	116.91	TS20
ATOM	50833	CD2	LEU	T	10	126.823	48.554	9.267	1.00	116.91	TS20
ATOM	50834	C	LEU	T	10	124.594	45.035	7.947	1.00	66.79	TS20
ATOM	50835	O	LEU	T	10	124.269	45.228	6.783	1.00	66.79	TS20
ATOM	50836	N	SER	T	11	123.874	44.315	8.813	1.00	80.13	TS20
ATOM	50837	CA	SER	T	11	122.618	43.629	8.489	1.00	80.13	TS20
ATOM	50838	CB	SER	T	11	121.795	43.398	9.758	1.00	67.11	TS20
ATOM	50839	OG	SER	T	11	122.114	42.135	10.328	1.00	67.11	TS20
ATOM	50840	C	SER	T	11	121.716	44.163	7.390	1.00	80.13	TS20
ATOM	50841	O	SER	T	11	120.860	43.421	6.898	1.00	80.13	TS20
ATOM	50842	N	ALA	T	12	121.884	45.430	7.013	1.00	82.92	TS20
ATOM	50843	CA	ALA	T	12	121.114	45.996	5.910	1.00	82.92	TS20
ATOM	50844	CB	ALA	T	12	121.086	47.499	6.018	1.00	61.33	TS20
ATOM	50845	C	ALA	T	12	121.756	45.548	4.558	1.00	82.92	TS20
ATOM	50846	O	ALA	T	12	121.796	46.299	3.585	1.00	82.92	TS20
ATOM	50847	N	LEU	T	13	122.292	44.322	4.538	1.00	102.51	TS20
ATOM	50848	CA	LEU	T	13	122.867	43.717	3.332	1.00	102.51	TS20
ATOM	50849	CB	LEU	T	13	123.647	42.441	3.638	1.00	57.58	TS20
ATOM	50850	CG	LEU	T	13	124.899	42.437	4.514	1.00	57.58	TS20
ATOM	50851	CD1	LEU	T	13	124.484	42.391	5.969	1.00	57.58	TS20
ATOM	50852	CD2	LEU	T	13	125.770	41.231	4.183	1.00	57.58	TS20
ATOM	50853	C	LEU	T	13	121.594	43.285	2.665	1.00	102.51	TS20
ATOM	50854	O	LEU	T	13	121.505	43.131	1.452	1.00	102.51	TS20
ATOM	50855	N	LYS	T	14	120.624	43.041	3.536	1.00	58.22	TS20
ATOM	50856	CA	LYS	T	14	119.273	42.653	3.181	1.00	58.22	TS20
ATOM	50857	CB	LYS	T	14	118.339	42.976	4.360	1.00	74.24	TS20
ATOM	50858	CG	LYS	T	14	116.844	42.744	4.114	1.00	74.24	TS20
ATOM	50859	CD	LYS	T	14	116.044	43.122	5.349	1.00	74.24	TS20
ATOM	50860	CE	LYS	T	14	114.594	42.692	5.236	1.00	74.24	TS20
ATOM	50861	NZ	LYS	T	14	113.891	42.835	6.549	1.00	74.24	TS20
ATOM	50862	C	LYS	T	14	118.853	43.448	1.955	1.00	58.22	TS20
ATOM	50863	O	LYS	T	14	118.247	42.913	1.021	1.00	58.22	TS20
ATOM	50864	N	ARG	T	15	119.171	44.737	1.968	1.00	68.90	TS20
ATOM	50865	CA	ARG	T	15	118.823	45.585	0.846	1.00	68.90	TS20
ATOM	50866	CB	ARG	T	15	119.379	46.989	1.063	1.00	70.40	TS20
ATOM	50867	CG	ARG	T	15	118.452	47.920	1.836	1.00	70.40	TS20
ATOM	50868	CD	ARG	T	15	117.156	48.193	1.077	1.00	70.40	TS20
ATOM	50869	NE	ARG	T	15	116.502	49.397	1.576	1.00	70.40	TS20
ATOM	50870	CZ	ARG	T	15	115.259	49.744	1.272	1.00	70.40	TS20

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ATOM	50871	NH1	ARG	T	15	114.534	48.973	0.475	1.00	70.40	TS20
ATOM	50872	NH2	ARG	T	15	114.744	50.862	1.757	1.00	70.40	TS20
ATOM	50873	C	ARG	T	15	119.373	44.984	-0.446	1.00	68.90	TS20
ATOM	50874	O	ARG	T	15	118.636	44.778	-1.420	1.00	68.90	TS20
ATOM	50875	N	HIS	T	16	120.668	44.693	-0.446	1.00	65.61	TS20
ATOM	50876	CA	HIS	T	16	121.290	44.107	-1.619	1.00	65.61	TS20
ATOM	50877	CB	HIS	T	16	122.769	43.873	-1.356	1.00	81.44	TS20
ATOM	50878	CG	HIS	T	16	123.491	43.274	-2.515	1.00	81.44	TS20
ATOM	50879	CD2	HIS	T	16	124.309	43.831	-3.437	1.00	81.44	TS20
ATOM	50880	ND1	HIS	T	16	123.406	41.938	-2.834	1.00	81.44	TS20
ATOM	50881	CE1	HIS	T	16	124.145	41.693	-3.899	1.00	81.44	TS20
ATOM	50882	NE2	HIS	T	16	124.705	42.826	-4.285	1.00	81.44	TS20
ATOM	50883	C	HIS	T	16	120.599	42.787	-1.948	1.00	65.61	TS20
ATOM	50884	O	HIS	T	16	120.393	42.441	-3.114	1.00	65.61	TS20
ATOM	50885	N	ARG	T	17	120.238	42.064	-0.895	1.00	58.11	TS20
ATOM	50886	CA	ARG	T	17	119.556	40.781	-0.997	1.00	58.11	TS20
ATOM	50887	CB	ARG	T	17	119.283	40.277	0.424	1.00	65.98	TS20
ATOM	50888	CG	ARG	T	17	119.353	38.786	0.630	1.00	65.98	TS20
ATOM	50889	CD	ARG	T	17	118.959	38.464	2.063	1.00	65.98	TS20
ATOM	50890	NE	ARG	T	17	119.868	39.058	3.041	1.00	65.98	TS20
ATOM	50891	CZ	ARG	T	17	119.550	39.289	4.317	1.00	65.98	TS20
ATOM	50892	NH1	ARG	T	17	118.339	38.978	4.773	1.00	65.98	TS20
ATOM	50893	NH2	ARG	T	17	120.445	39.835	5.143	1.00	65.98	TS20
ATOM	50894	C	ARG	T	17	118.235	40.934	-1.780	1.00	58.11	TS20
ATOM	50895	O	ARG	T	17	117.911	40.134	-2.665	1.00	58.11	TS20
ATOM	50896	N	GLN	T	18	117.481	41.973	-1.445	1.00	59.85	TS20
ATOM	50897	CA	GLN	T	18	116.206	42.231	-2.092	1.00	59.85	TS20
ATOM	50898	CB	GLN	T	18	115.417	43.231	-1.277	1.00	71.86	TS20
ATOM	50899	CG	GLN	T	18	115.573	42.978	0.185	1.00	71.86	TS20
ATOM	50900	CD	GLN	T	18	114.937	44.041	1.015	1.00	71.86	TS20
ATOM	50901	OE1	GLN	T	18	115.220	45.228	0.845	1.00	71.86	TS20
ATOM	50902	NE2	GLN	T	18	114.071	43.632	1.929	1.00	71.86	TS20
ATOM	50903	C	GLN	T	18	116.453	42.794	-3.465	1.00	59.85	TS20
ATOM	50904	O	GLN	T	18	115.786	42.412	-4.428	1.00	59.85	TS20
ATOM	50905	N	SER	T	19	117.413	43.713	-3.553	1.00	62.30	TS20
ATOM	50906	CA	SER	T	19	117.738	44.334	-4.824	1.00	62.30	TS20
ATOM	50907	CB	SER	T	19	119.095	45.033	-4.752	1.00	87.37	TS20
ATOM	50908	OG	SER	T	19	120.157	44.120	-4.958	1.00	87.37	TS20
ATOM	50909	C	SER	T	19	117.788	43.216	-5.850	1.00	62.30	TS20
ATOM	50910	O	SER	T	19	117.150	43.282	-6.897	1.00	62.30	TS20
ATOM	50911	N	LEU	T	20	118.525	42.167	-5.517	1.00	65.14	TS20
ATOM	50912	CA	LEU	T	20	118.656	41.036	-6.407	1.00	65.14	TS20
ATOM	50913	CB	LEU	T	20	119.545	39.989	-5.765	1.00	66.78	TS20
ATOM	50914	CG	LEU	T	20	120.987	40.413	-6.010	1.00	66.78	TS20
ATOM	50915	CD1	LEU	T	20	121.949	39.661	-5.107	1.00	66.78	TS20
ATOM	50916	CD2	LEU	T	20	121.289	40.179	-7.497	1.00	66.78	TS20
ATOM	50917	C	LEU	T	20	117.333	40.428	-6.821	1.00	65.14	TS20
ATOM	50918	O	LEU	T	20	117.105	40.213	-8.014	1.00	65.14	TS20
ATOM	50919	N	LYS	T	21	116.461	40.148	-5.856	1.00	76.38	TS20
ATOM	50920	CA	LYS	T	21	115.167	39.573	-6.191	1.00	76.38	TS20
ATOM	50921	CB	LYS	T	21	114.295	39.407	-4.955	1.00	80.80	TS20
ATOM	50922	CG	LYS	T	21	114.829	38.468	-3.902	1.00	80.80	TS20
ATOM	50923	CD	LYS	T	21	113.695	38.143	-2.943	1.00	80.80	TS20
ATOM	50924	CE	LYS	T	21	114.173	37.931	-1.507	1.00	80.80	TS20
ATOM	50925	NZ	LYS	T	21	113.010	37.909	-0.557	1.00	80.80	TS20
ATOM	50926	C	LYS	T	21	114.457	40.493	-7.174	1.00	76.38	TS20
ATOM	50927	O	LYS	T	21	114.170	40.100	-8.303	1.00	76.38	TS20
ATOM	50928	N	ARG	T	22	114.182	41.722	-6.743	1.00	71.45	TS20
ATOM	50929	CA	ARG	T	22	113.507	42.712	-7.581	1.00	71.45	TS20
ATOM	50930	CB	ARG	T	22	113.596	44.090	-6.925	1.00	103.22	TS20
ATOM	50931	CG	ARG	T	22	112.703	44.253	-5.720	1.00	103.22	TS20
ATOM	50932	CD	ARG	T	22	113.085	45.469	-4.899	1.00	103.22	TS20
ATOM	50933	NE	ARG	T	22	112.042	45.790	-3.930	1.00	103.22	TS20
ATOM	50934	CZ	ARG	T	22	110.866	46.315	-4.260	1.00	103.22	TS20
ATOM	50935	NH1	ARG	T	22	110.592	46.582	-5.533	1.00	103.22	TS20
ATOM	50936	NH2	ARG	T	22	109.955	46.560	-3.326	1.00	103.22	TS20
ATOM	50937	C	ARG	T	22	114.115	42.771	-8.979	1.00	71.45	TS20
ATOM	50938	O	ARG	T	22	113.392	42.836	-9.975	1.00	71.45	TS20
ATOM	50939	N	ARG	T	23	115.444	42.755	-9.051	1.00	65.02	TS20
ATOM	50940	CA	ARG	T	23	116.125	42.795	-10.335	1.00	65.02	TS20
ATOM	50941	CB	ARG	T	23	117.622	42.554	-10.163	1.00	86.70	TS20
ATOM	50942	CG	ARG	T	23	118.372	42.326	-11.470	1.00	86.70	TS20
ATOM	50943	CD	ARG	T	23	119.886	42.448	-11.279	1.00	86.70	TS20
ATOM	50944	NE	ARG	T	23	120.624	41.857	-12.389	1.00	86.70	TS20
ATOM	50945	CZ	ARG	T	23	120.585	40.564	-12.702	1.00	86.70	TS20
ATOM	50946	NH1	ARG	T	23	119.847	39.729	-11.985	1.00	86.70	TS20
ATOM	50947	NH2	ARG	T	23	121.274	40.104	-13.739	1.00	86.70	TS20

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ATOM	50948	C	ARG	T	23	115.548	41.708	-11.209	1.00	65.02	TS20
ATOM	50949	O	ARG	T	23	114.923	41.975	-12.239	1.00	65.02	TS20
ATOM	50950	N	LEU	T	24	115.747	40.471	-10.780	1.00	78.48	TS20
ATOM	50951	CA	LEU	T	24	115.249	39.334	-11.528	1.00	78.48	TS20
ATOM	50952	CB	LEU	T	24	115.450	38.059	-10.720	1.00	105.71	TS20
ATOM	50953	CG	LEU	T	24	115.151	36.791	-11.511	1.00	105.71	TS20
ATOM	50954	CD1	LEU	T	24	115.943	36.768	-12.822	1.00	105.71	TS20
ATOM	50955	CD2	LEU	T	24	115.503	35.600	-10.648	1.00	105.71	TS20
ATOM	50956	C	LEU	T	24	113.776	39.500	-11.903	1.00	78.48	TS20
ATOM	50957	O	LEU	T	24	113.343	39.060	-12.968	1.00	78.48	TS20
ATOM	50958	N	ARG	T	25	113.015	40.157	-11.037	1.00	76.80	TS20
ATOM	50959	CA	ARG	T	25	111.598	40.354	-11.290	1.00	76.80	TS20
ATOM	50960	CB	ARG	T	25	110.884	40.763	-10.004	1.00	98.10	TS20
ATOM	50961	CG	ARG	T	25	109.378	40.616	-10.062	1.00	98.10	TS20
ATOM	50962	CD	ARG	T	25	108.908	39.907	-8.817	1.00	98.10	TS20
ATOM	50963	NE	ARG	T	25	109.540	40.468	-7.625	1.00	98.10	TS20
ATOM	50964	CZ	ARG	T	25	109.521	39.898	-6.419	1.00	98.10	TS20
ATOM	50965	NH1	ARG	T	25	108.897	38.735	-6.230	1.00	98.10	TS20
ATOM	50966	NH2	ARG	T	25	110.132	40.491	-5.397	1.00	98.10	TS20
ATOM	50967	C	ARG	T	25	111.339	41.380	-12.387	1.00	76.80	TS20
ATOM	50968	O	ARG	T	25	110.585	41.095	-13.315	1.00	76.80	TS20
ATOM	50969	N	ASN	T	26	111.946	42.566	-12.282	1.00	69.77	TS20
ATOM	50970	CA	ASN	T	26	111.771	43.610	-13.302	1.00	69.77	TS20
ATOM	50971	CB	ASN	T	26	112.562	44.875	-12.956	1.00	76.75	TS20
ATOM	50972	CG	ASN	T	26	111.996	45.629	-11.772	1.00	76.75	TS20
ATOM	50973	OD1	ASN	T	26	110.794	45.882	-11.697	1.00	76.75	TS20
ATOM	50974	ND2	ASN	T	26	112.874	46.021	-10.849	1.00	76.75	TS20
ATOM	50975	C	ASN	T	26	112.334	43.067	-14.611	1.00	69.77	TS20
ATOM	50976	O	ASN	T	26	111.740	43.203	-15.690	1.00	69.77	TS20
ATOM	50977	N	LYS	T	27	113.508	42.459	-14.480	1.00	89.41	TS20
ATOM	50978	CA	LYS	T	27	114.228	41.876	-15.591	1.00	89.41	TS20
ATOM	50979	CB	LYS	T	27	115.344	40.973	-15.071	1.00	120.44	TS20
ATOM	50980	CG	LYS	T	27	116.200	40.418	-16.175	1.00	120.44	TS20
ATOM	50981	CD	LYS	T	27	116.640	38.995	-15.894	1.00	120.44	TS20
ATOM	50982	CE	LYS	T	27	117.193	38.365	-17.173	1.00	120.44	TS20
ATOM	50983	NZ	LYS	T	27	117.275	36.879	-17.115	1.00	120.44	TS20
ATOM	50984	C	LYS	T	27	113.296	41.066	-16.470	1.00	89.41	TS20
ATOM	50985	O	LYS	T	27	113.263	41.239	-17.685	1.00	89.41	TS20
ATOM	50986	N	ALA	T	28	112.523	40.191	-15.844	1.00	68.12	TS20
ATOM	50987	CA	ALA	T	28	111.613	39.325	-16.577	1.00	68.12	TS20
ATOM	50988	CB	ALA	T	28	111.205	38.160	-15.695	1.00	53.25	TS20
ATOM	50989	C	ALA	T	28	110.373	40.023	-17.142	1.00	68.12	TS20
ATOM	50990	O	ALA	T	28	109.901	39.678	-18.233	1.00	68.12	TS20
ATOM	50991	N	LYS	T	29	109.842	40.997	-16.409	1.00	74.81	TS20
ATOM	50992	CA	LYS	T	29	108.658	41.709	-16.873	1.00	74.81	TS20
ATOM	50993	CB	LYS	T	29	108.198	42.736	-15.836	1.00	80.39	TS20
ATOM	50994	CG	LYS	T	29	107.524	42.135	-14.614	1.00	80.39	TS20
ATOM	50995	CD	LYS	T	29	106.692	43.192	-13.899	1.00	80.39	TS20
ATOM	50996	CE	LYS	T	29	105.408	42.601	-13.311	1.00	80.39	TS20
ATOM	50997	NZ	LYS	T	29	104.265	43.589	-13.293	1.00	80.39	TS20
ATOM	50998	C	LYS	T	29	108.947	42.412	-18.190	1.00	74.81	TS20
ATOM	50999	O	LYS	T	29	108.083	42.491	-19.075	1.00	74.81	TS20
ATOM	51000	N	LYS	T	30	110.175	42.905	-18.320	1.00	89.81	TS20
ATOM	51001	CA	LYS	T	30	110.566	43.621	-19.519	1.00	89.81	TS20
ATOM	51002	CB	LYS	T	30	111.828	44.448	-19.250	1.00	75.77	TS20
ATOM	51003	CG	LYS	T	30	111.494	45.739	-18.510	1.00	75.77	TS20
ATOM	51004	CD	LYS	T	30	112.655	46.707	-18.395	1.00	75.77	TS20
ATOM	51005	CE	LYS	T	30	113.678	46.237	-17.365	1.00	75.77	TS20
ATOM	51006	NZ	LYS	T	30	114.725	47.279	-17.096	1.00	75.77	TS20
ATOM	51007	C	LYS	T	30	110.736	42.741	-20.741	1.00	89.81	TS20
ATOM	51008	O	LYS	T	30	110.279	43.100	-21.832	1.00	89.81	TS20
ATOM	51009	N	SER	T	31	111.368	41.586	-20.566	1.00	69.87	TS20
ATOM	51010	CA	SER	T	31	111.572	40.671	-21.686	1.00	69.87	TS20
ATOM	51011	CB	SER	T	31	112.220	39.386	-21.188	1.00	90.17	TS20
ATOM	51012	OG	SER	T	31	113.401	39.687	-20.471	1.00	90.17	TS20
ATOM	51013	C	SER	T	31	110.232	40.358	-22.355	1.00	69.87	TS20
ATOM	51014	O	SER	T	31	110.135	40.260	-23.581	1.00	69.87	TS20
ATOM	51015	N	ALA	T	32	109.202	40.209	-21.530	1.00	78.87	TS20
ATOM	51016	CA	ALA	T	32	107.861	39.925	-22.013	1.00	78.87	TS20
ATOM	51017	CB	ALA	T	32	106.898	39.867	-20.846	1.00	102.06	TS20
ATOM	51018	C	ALA	T	32	107.469	41.053	-22.947	1.00	78.87	TS20
ATOM	51019	O	ALA	T	32	107.090	40.834	-24.107	1.00	78.87	TS20
ATOM	51020	N	ILE	T	33	107.562	42.270	-22.428	1.00	63.87	TS20
ATOM	51021	CA	ILE	T	33	107.226	43.425	-23.227	1.00	63.87	TS20
ATOM	51022	CB	ILE	T	33	107.530	44.704	-22.489	1.00	63.78	TS20
ATOM	51023	CG2	ILE	T	33	107.405	45.882	-23.436	1.00	63.78	TS20
ATOM	51024	CG1	ILE	T	33	106.581	44.828	-21.301	1.00	63.78	TS20

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ATOM	51025	CD1	ILE	T	33	106.656	46.168	-20.568	1.00	63.78	TS20
ATOM	51026	C	ILE	T	33	108.009	43.416	-24.529	1.00	63.87	TS20
ATOM	51027	O	ILE	T	33	107.420	43.337	-25.606	1.00	63.87	TS20
ATOM	51028	N	LYS	T	34	109.334	43.481	-24.438	1.00	83.99	TS20
ATOM	51029	CA	LYS	T	34	110.153	43.492	-25.642	1.00	83.99	TS20
ATOM	51030	CB	LYS	T	34	111.638	43.361	-25.290	1.00	98.92	TS20
ATOM	51031	CG	LYS	T	34	112.159	44.553	-24.478	1.00	98.92	TS20
ATOM	51032	CD	LYS	T	34	113.656	44.470	-24.192	1.00	98.92	TS20
ATOM	51033	CE	LYS	T	34	114.092	45.543	-23.194	1.00	98.92	TS20
ATOM	51034	NZ	LYS	T	34	115.533	45.408	-22.804	1.00	98.92	TS20
ATOM	51035	C	LYS	T	34	109.728	42.400	-26.609	1.00	83.99	TS20
ATOM	51036	O	LYS	T	34	109.529	42.663	-27.794	1.00	83.99	TS20
ATOM	51037	N	THR	T	35	109.543	41.186	-26.103	1.00	66.03	TS20
ATOM	51038	CA	THR	T	35	109.138	40.076	-26.962	1.00	66.03	TS20
ATOM	51039	CB	THR	T	35	109.050	38.773	-26.175	1.00	86.81	TS20
ATOM	51040	OG1	THR	T	35	110.371	38.328	-25.850	1.00	86.81	TS20
ATOM	51041	CG2	THR	T	35	108.366	37.711	-26.999	1.00	86.81	TS20
ATOM	51042	C	THR	T	35	107.810	40.294	-27.677	1.00	66.03	TS20
ATOM	51043	O	THR	T	35	107.735	40.235	-28.909	1.00	66.03	TS20
ATOM	51044	N	LEU	T	36	106.764	40.531	-26.896	1.00	71.38	TS20
ATOM	51045	CA	LEU	T	36	105.442	40.764	-27.454	1.00	71.38	TS20
ATOM	51046	CB	LEU	T	36	104.427	40.934	-26.333	1.00	60.07	TS20
ATOM	51047	CG	LEU	T	36	104.080	39.691	-25.536	1.00	60.07	TS20
ATOM	51048	CD1	LEU	T	36	102.736	39.953	-24.860	1.00	60.07	TS20
ATOM	51049	CD2	LEU	T	36	103.987	38.472	-26.448	1.00	60.07	TS20
ATOM	51050	C	LEU	T	36	105.377	41.989	-28.366	1.00	71.38	TS20
ATOM	51051	O	LEU	T	36	104.479	42.112	-29.202	1.00	71.38	TS20
ATOM	51052	N	SER	T	37	106.317	42.905	-28.196	1.00	69.62	TS20
ATOM	51053	CA	SER	T	37	106.325	44.097	-29.013	1.00	69.62	TS20
ATOM	51054	CB	SER	T	37	107.189	45.155	-28.349	1.00	63.52	TS20
ATOM	51055	OG	SER	T	37	106.610	45.540	-27.116	1.00	63.52	TS20
ATOM	51056	C	SER	T	37	106.849	43.741	-30.398	1.00	69.62	TS20
ATOM	51057	O	SER	T	37	106.246	44.108	-31.415	1.00	69.62	TS20
ATOM	51058	N	LYS	T	38	107.965	43.017	-30.441	1.00	97.40	TS20
ATOM	51059	CA	LYS	T	38	108.524	42.598	-31.718	1.00	97.40	TS20
ATOM	51060	CB	LYS	T	38	109.865	41.918	-31.519	1.00	98.13	TS20
ATOM	51061	CG	LYS	T	38	110.901	42.804	-30.892	1.00	98.13	TS20
ATOM	51062	CD	LYS	T	38	112.126	41.984	-30.562	1.00	98.13	TS20
ATOM	51063	CE	LYS	T	38	113.106	42.748	-29.690	1.00	98.13	TS20
ATOM	51064	NZ	LYS	T	38	114.119	41.803	-29.125	1.00	98.13	TS20
ATOM	51065	C	LYS	T	38	107.545	41.612	-32.335	1.00	97.40	TS20
ATOM	51066	O	LYS	T	38	107.438	41.506	-33.556	1.00	97.40	TS20
ATOM	51067	N	LYS	T	39	106.837	40.889	-31.471	1.00	89.18	TS20
ATOM	51068	CA	LYS	T	39	105.837	39.913	-31.890	1.00	89.18	TS20
ATOM	51069	CB	LYS	T	39	105.235	39.241	-30.652	1.00	123.92	TS20
ATOM	51070	CG	LYS	T	39	105.120	37.723	-30.699	1.00	123.92	TS20
ATOM	51071	CD	LYS	T	39	103.929	37.260	-31.512	1.00	123.92	TS20
ATOM	51072	CE	LYS	T	39	103.599	35.790	-31.248	1.00	123.92	TS20
ATOM	51073	NZ	LYS	T	39	103.124	35.547	-29.852	1.00	123.92	TS20
ATOM	51074	C	LYS	T	39	104.753	40.675	-32.653	1.00	89.18	TS20
ATOM	51075	O	LYS	T	39	104.358	40.282	-33.748	1.00	89.18	TS20
ATOM	51076	N	ALA	T	40	104.293	41.779	-32.069	1.00	81.00	TS20
ATOM	51077	CA	ALA	T	40	103.252	42.599	-32.681	1.00	81.00	TS20
ATOM	51078	CB	ALA	T	40	102.697	43.604	-31.664	1.00	43.26	TS20
ATOM	51079	C	ALA	T	40	103.770	43.337	-33.908	1.00	81.00	TS20
ATOM	51080	O	ALA	T	40	103.263	43.147	-35.019	1.00	81.00	TS20
ATOM	51081	N	VAL	T	41	104.770	44.190	-33.697	1.00	87.23	TS20
ATOM	51082	CA	VAL	T	41	105.373	44.958	-34.782	1.00	87.23	TS20
ATOM	51083	CB	VAL	T	41	106.733	45.533	-34.362	1.00	70.67	TS20
ATOM	51084	CG1	VAL	T	41	107.615	45.709	-35.589	1.00	70.67	TS20
ATOM	51085	CG2	VAL	T	41	106.536	46.863	-33.645	1.00	70.67	TS20
ATOM	51086	C	VAL	T	41	105.580	44.065	-35.996	1.00	87.23	TS20
ATOM	51087	O	VAL	T	41	105.339	44.469	-37.129	1.00	87.23	TS20
ATOM	51088	N	GLN	T	42	106.046	42.851	-35.741	1.00	80.55	TS20
ATOM	51089	CA	GLN	T	42	106.269	41.880	-36.795	1.00	80.55	TS20
ATOM	51090	CB	GLN	T	42	106.714	40.548	-36.191	1.00	117.51	TS20
ATOM	51091	CG	GLN	T	42	108.183	40.246	-36.370	1.00	117.51	TS20
ATOM	51092	CD	GLN	T	42	108.556	40.070	-37.827	1.00	117.51	TS20
ATOM	51093	OE1	GLN	T	42	109.701	39.765	-38.149	1.00	117.51	TS20
ATOM	51094	NE2	GLN	T	42	107.588	40.261	-38.718	1.00	117.51	TS20
ATOM	51095	C	GLN	T	42	104.998	41.662	-37.610	1.00	80.55	TS20
ATOM	51096	O	GLN	T	42	104.874	42.156	-38.727	1.00	80.55	TS20
ATOM	51097	N	LEU	T	43	104.054	40.920	-37.043	1.00	89.55	TS20
ATOM	51098	CA	LEU	T	43	102.804	40.630	-37.730	1.00	89.55	TS20
ATOM	51099	CB	LEU	T	43	101.763	40.091	-36.748	1.00	103.34	TS20
ATOM	51100	CG	LEU	T	43	102.100	38.800	-35.999	1.00	103.34	TS20
ATOM	51101	CD1	LEU	T	43	100.800	38.198	-35.508	1.00	103.34	TS20

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ATOM	51102	CD2	LEU	T	43	102.829	37.807	-36.902	1.00103.34	TS20
ATOM	51103	C	LEU	T	43	102.227	41.832	-38.457	1.00 89.55	TS20
ATOM	51104	O	LEU	T	43	101.911	41.745	-39.642	1.00 89.55	TS20
ATOM	51105	N	ALA	T	44	102.083	42.946	-37.744	1.00 91.87	TS20
ATOM	51106	CA	ALA	T	44	101.537	44.176	-38.327	1.00 91.87	TS20
ATOM	51107	CB	ALA	T	44	101.668	45.333	-37.326	1.00104.66	TS20
ATOM	51108	C	ALA	T	44	102.272	44.518	-39.619	1.00 91.87	TS20
ATOM	51109	O	ALA	T	44	101.666	44.895	-40.627	1.00 91.87	TS20
ATOM	51110	N	GLN	T	45	103.589	44.374	-39.559	1.00 83.49	TS20
ATOM	51111	CA	GLN	T	45	104.483	44.642	-40.672	1.00 83.49	TS20
ATOM	51112	CB	GLN	T	45	105.927	44.547	-40.149	1.00107.64	TS20
ATOM	51113	CG	GLN	T	45	107.021	44.694	-41.161	1.00107.64	TS20
ATOM	51114	CD	GLN	T	45	107.067	43.508	-42.066	1.00107.64	TS20
ATOM	51115	OE1	GLN	T	45	107.048	42.367	-41.605	1.00107.64	TS20
ATOM	51116	NE2	GLN	T	45	107.116	43.757	-43.368	1.00107.64	TS20
ATOM	51117	C	GLN	T	45	104.207	43.674	-41.838	1.00 83.49	TS20
ATOM	51118	O	GLN	T	45	104.514	43.969	-42.988	1.00 83.49	TS20
ATOM	51119	N	GLU	T	46	103.608	42.528	-41.537	1.00 86.93	TS20
ATOM	51120	CA	GLU	T	46	103.272	41.543	-42.561	1.00 86.93	TS20
ATOM	51121	CB	GLU	T	46	103.576	40.135	-42.071	1.00123.69	TS20
ATOM	51122	CG	GLU	T	46	104.974	39.936	-41.584	1.00123.69	TS20
ATOM	51123	CD	GLU	T	46	105.062	38.740	-40.677	1.00123.69	TS20
ATOM	51124	OE1	GLU	T	46	104.726	37.628	-41.133	1.00123.69	TS20
ATOM	51125	OE2	GLU	T	46	105.454	38.914	-39.505	1.00123.69	TS20
ATOM	51126	C	GLU	T	46	101.782	41.628	-42.871	1.00 86.93	TS20
ATOM	51127	O	GLU	T	46	101.193	40.680	-43.399	1.00 86.93	TS20
ATOM	51128	N	GLY	T	47	101.172	42.755	-42.520	1.00 90.69	TS20
ATOM	51129	CA	GLY	T	47	99.753	42.940	-42.771	1.00 90.69	TS20
ATOM	51130	C	GLY	T	47	98.827	41.890	-42.173	1.00 90.69	TS20
ATOM	51131	O	GLY	T	47	97.776	41.571	-42.743	1.00 90.69	TS20
ATOM	51132	N	LYS	T	48	99.215	41.350	-41.022	1.00101.85	TS20
ATOM	51133	CA	LYS	T	48	98.415	40.344	-40.336	1.00101.85	TS20
ATOM	51134	CB	LYS	T	48	99.338	39.359	-39.622	1.00 96.66	TS20
ATOM	51135	CG	LYS	T	48	99.970	38.318	-40.546	1.00 96.66	TS20
ATOM	51136	CD	LYS	T	48	98.973	37.208	-40.868	1.00 96.66	TS20
ATOM	51137	CE	LYS	T	48	99.619	36.068	-41.647	1.00 96.66	TS20
ATOM	51138	NZ	LYS	T	48	100.816	35.502	-40.962	1.00 96.66	TS20
ATOM	51139	C	LYS	T	48	97.476	41.034	-39.347	1.00101.85	TS20
ATOM	51140	O	LYS	T	48	97.504	40.778	-38.145	1.00101.85	TS20
ATOM	51141	N	ALA	T	49	96.645	41.912	-39.897	1.00 88.33	TS20
ATOM	51142	CA	ALA	T	49	95.665	42.712	-39.162	1.00 88.33	TS20
ATOM	51143	CB	ALA	T	49	94.427	42.932	-40.048	1.00137.14	TS20
ATOM	51144	C	ALA	T	49	95.220	42.227	-37.782	1.00 88.33	TS20
ATOM	51145	O	ALA	T	49	95.692	42.720	-36.753	1.00 88.33	TS20
ATOM	51146	N	GLU	T	50	94.284	41.281	-37.778	1.00130.09	TS20
ATOM	51147	CA	GLU	T	50	93.740	40.745	-36.541	1.00130.09	TS20
ATOM	51148	CB	GLU	T	50	92.953	39.455	-36.803	1.00171.51	TS20
ATOM	51149	CG	GLU	T	50	91.436	39.623	-36.711	1.00171.51	TS20
ATOM	51150	CD	GLU	T	50	90.701	38.307	-36.479	1.00171.51	TS20
ATOM	51151	OE1	GLU	T	50	90.807	37.400	-37.332	1.00171.51	TS20
ATOM	51152	OE2	GLU	T	50	90.016	38.182	-35.439	1.00171.51	TS20
ATOM	51153	C	GLU	T	50	94.788	40.479	-35.481	1.00130.09	TS20
ATOM	51154	O	GLU	T	50	95.026	41.317	-34.612	1.00130.09	TS20
ATOM	51155	N	GLU	T	51	95.417	39.314	-35.561	1.00116.24	TS20
ATOM	51156	CA	GLU	T	51	96.414	38.926	-34.579	1.00116.24	TS20
ATOM	51157	CB	GLU	T	51	97.017	37.566	-34.951	1.00147.46	TS20
ATOM	51158	CG	GLU	T	51	97.576	37.464	-36.357	1.00147.46	TS20
ATOM	51159	CD	GLU	T	51	97.966	36.038	-36.715	1.00147.46	TS20
ATOM	51160	OE1	GLU	T	51	98.603	35.367	-35.874	1.00147.46	TS20
ATOM	51161	OE2	GLU	T	51	97.643	35.588	-37.837	1.00147.46	TS20
ATOM	51162	C	GLU	T	51	97.513	39.954	-34.317	1.00116.24	TS20
ATOM	51163	O	GLU	T	51	98.114	39.952	-33.240	1.00116.24	TS20
ATOM	51164	N	ALA	T	52	97.775	40.838	-35.277	1.00 88.74	TS20
ATOM	51165	CA	ALA	T	52	98.806	41.859	-35.078	1.00 88.74	TS20
ATOM	51166	CB	ALA	T	52	99.042	42.637	-36.361	1.00 55.21	TS20
ATOM	51167	C	ALA	T	52	98.363	42.801	-33.955	1.00 88.74	TS20
ATOM	51168	O	ALA	T	52	99.168	43.209	-33.119	1.00 88.74	TS20
ATOM	51169	N	LEU	T	53	97.078	43.138	-33.935	1.00 79.70	TS20
ATOM	51170	CA	LEU	T	53	96.550	44.001	-32.891	1.00 79.70	TS20
ATOM	51171	CB	LEU	T	53	95.217	44.607	-33.328	1.00 87.16	TS20
ATOM	51172	CG	LEU	T	53	95.429	45.718	-34.361	1.00 87.16	TS20
ATOM	51173	CD1	LEU	T	53	94.153	46.016	-35.102	1.00 87.16	TS20
ATOM	51174	CD2	LEU	T	53	95.935	46.956	-33.657	1.00 87.16	TS20
ATOM	51175	C	LEU	T	53	96.400	43.212	-31.593	1.00 79.70	TS20
ATOM	51176	O	LEU	T	53	96.877	43.661	-30.553	1.00 79.70	TS20
ATOM	51177	N	LYS	T	54	95.760	42.040	-31.648	1.00 99.71	TS20
ATOM	51178	CA	LYS	T	54	95.590	41.201	-30.452	1.00 99.71	TS20

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ATOM	51179	CB	LYS	T	54	95.277	39.750	-30.826	1.00140.52	TS20
ATOM	51180	CG	LYS	T	54	93.838	39.483	-31.211	1.00140.52	TS20
ATOM	51181	CD	LYS	T	54	93.638	38.039	-31.670	1.00140.52	TS20
ATOM	51182	CE	LYS	T	54	92.210	37.808	-32.146	1.00140.52	TS20
ATOM	51183	NZ	LYS	T	54	92.006	36.434	-32.665	1.00140.52	TS20
ATOM	51184	C	LYS	T	54	96.886	41.217	-29.662	1.00 99.71	TS20
ATOM	51185	O	LYS	T	54	96.926	41.646	-28.511	1.00 99.71	TS20
ATOM	51186	N	ILE	T	55	97.949	40.742	-30.297	1.00 68.38	TS20
ATOM	51187	CA	ILE	T	55	99.254	40.713	-29.671	1.00 68.38	TS20
ATOM	51188	CB	ILE	T	55	100.294	40.206	-30.657	1.00 77.55	TS20
ATOM	51189	CG2	ILE	T	55	101.695	40.286	-30.059	1.00 77.55	TS20
ATOM	51190	CG1	ILE	T	55	99.926	38.778	-31.038	1.00 77.55	TS20
ATOM	51191	CD1	ILE	T	55	100.901	38.114	-31.950	1.00 77.55	TS20
ATOM	51192	C	ILE	T	55	99.624	42.113	-29.219	1.00 68.38	TS20
ATOM	51193	O	ILE	T	55	100.148	42.318	-28.121	1.00 68.38	TS20
ATOM	51194	N	MET	T	56	99.337	43.084	-30.072	1.00 64.84	TS20
ATOM	51195	CA	MET	T	56	99.643	44.462	-29.751	1.00 64.84	TS20
ATOM	51196	CB	MET	T	56	99.150	45.377	-30.873	1.00 91.81	TS20
ATOM	51197	CG	MET	T	56	99.783	46.753	-30.873	1.00 91.81	TS20
ATOM	51198	SD	MET	T	56	98.586	48.040	-30.559	1.00 91.81	TS20
ATOM	51199	CE	MET	T	56	98.268	48.599	-32.223	1.00 91.81	TS20
ATOM	51200	C	MET	T	56	99.015	44.855	-28.411	1.00 64.84	TS20
ATOM	51201	O	MET	T	56	99.679	45.474	-27.577	1.00 64.84	TS20
ATOM	51202	N	ARG	T	57	97.750	44.486	-28.195	1.00 73.09	TS20
ATOM	51203	CA	ARG	T	57	97.080	44.819	-26.939	1.00 73.09	TS20
ATOM	51204	CB	ARG	T	57	95.608	44.397	-26.935	1.00110.67	TS20
ATOM	51205	CG	ARG	T	57	94.723	45.066	-27.952	1.00110.67	TS20
ATOM	51206	CD	ARG	T	57	94.580	44.175	-29.173	1.00110.67	TS20
ATOM	51207	NE	ARG	T	57	93.193	43.990	-29.587	1.00110.67	TS20
ATOM	51208	CZ	ARG	T	57	92.229	43.573	-28.775	1.00110.67	TS20
ATOM	51209	NH1	ARG	T	57	92.498	43.300	-27.502	1.00110.67	TS20
ATOM	51210	NH2	ARG	T	57	90.994	43.428	-29.235	1.00110.67	TS20
ATOM	51211	C	ARG	T	57	97.765	44.149	-25.754	1.00 73.09	TS20
ATOM	51212	O	ARG	T	57	97.976	44.781	-24.719	1.00 73.09	TS20
ATOM	51213	N	LYS	T	58	98.102	42.869	-25.885	1.00 73.55	TS20
ATOM	51214	CA	LYS	T	58	98.760	42.185	-24.774	1.00 73.55	TS20
ATOM	51215	CB	LYS	T	58	99.220	40.776	-25.179	1.00108.36	TS20
ATOM	51216	CG	LYS	T	58	98.056	39.809	-25.459	1.00108.36	TS20
ATOM	51217	CD	LYS	T	58	98.515	38.368	-25.707	1.00108.36	TS20
ATOM	51218	CE	LYS	T	58	97.327	37.433	-25.951	1.00108.36	TS20
ATOM	51219	NZ	LYS	T	58	97.738	36.003	-26.093	1.00108.36	TS20
ATOM	51220	C	LYS	T	58	99.942	43.047	-24.359	1.00 73.55	TS20
ATOM	51221	O	LYS	T	58	100.136	43.334	-23.171	1.00 73.55	TS20
ATOM	51222	N	ALA	T	59	100.708	43.482	-25.356	1.00 53.68	TS20
ATOM	51223	CA	ALA	T	59	101.852	44.340	-25.119	1.00 53.68	TS20
ATOM	51224	CB	ALA	T	59	102.460	44.769	-26.443	1.00 90.24	TS20
ATOM	51225	C	ALA	T	59	101.367	45.564	-24.342	1.00 53.68	TS20
ATOM	51226	O	ALA	T	59	101.841	45.840	-23.237	1.00 53.68	TS20
ATOM	51227	N	GLU	T	60	100.411	46.290	-24.916	1.00 72.54	TS20
ATOM	51228	CA	GLU	T	60	99.890	47.477	-24.257	1.00 72.54	TS20
ATOM	51229	CB	GLU	T	60	98.616	47.982	-24.931	1.00 87.65	TS20
ATOM	51230	CG	GLU	T	60	98.065	49.226	-24.243	1.00 87.65	TS20
ATOM	51231	CD	GLU	T	60	96.864	49.820	-24.942	1.00 87.65	TS20
ATOM	51232	OE1	GLU	T	60	96.418	50.911	-24.531	1.00 87.65	TS20
ATOM	51233	OE2	GLU	T	60	96.362	49.199	-25.898	1.00 87.65	TS20
ATOM	51234	C	GLU	T	60	99.592	47.184	-22.798	1.00 72.54	TS20
ATOM	51235	O	GLU	T	60	99.876	48.004	-21.922	1.00 72.54	TS20
ATOM	51236	N	SER	T	61	99.029	46.010	-22.531	1.00 71.48	TS20
ATOM	51237	CA	SER	T	61	98.707	45.652	-21.160	1.00 71.48	TS20
ATOM	51238	CB	SER	T	61	97.845	44.402	-21.124	1.00 83.50	TS20
ATOM	51239	OG	SER	T	61	97.652	44.000	-19.782	1.00 83.50	TS20
ATOM	51240	C	SER	T	61	99.941	45.433	-20.283	1.00 71.48	TS20
ATOM	51241	O	SER	T	61	100.171	46.176	-19.324	1.00 71.48	TS20
ATOM	51242	N	LEU	T	62	100.734	44.419	-20.609	1.00 70.12	TS20
ATOM	51243	CA	LEU	T	62	101.919	44.127	-19.811	1.00 70.12	TS20
ATOM	51244	CB	LEU	T	62	102.814	43.097	-20.502	1.00 81.78	TS20
ATOM	51245	CG	LEU	T	62	102.174	42.022	-21.384	1.00 81.78	TS20
ATOM	51246	CD1	LEU	T	62	103.226	40.952	-21.616	1.00 81.78	TS20
ATOM	51247	CD2	LEU	T	62	100.918	41.422	-20.754	1.00 81.78	TS20
ATOM	51248	C	LEU	T	62	102.721	45.392	-19.553	1.00 70.12	TS20
ATOM	51249	O	LEU	T	62	103.332	45.542	-18.491	1.00 70.12	TS20
ATOM	51250	N	ILE	T	63	102.718	46.302	-20.520	1.00 65.93	TS20
ATOM	51251	CA	ILE	T	63	103.448	47.545	-20.360	1.00 65.93	TS20
ATOM	51252	CB	ILE	T	63	103.480	48.338	-21.673	1.00 52.75	TS20
ATOM	51253	CG2	ILE	T	63	104.263	49.639	-21.492	1.00 52.75	TS20
ATOM	51254	CG1	ILE	T	63	104.157	47.505	-22.756	1.00 52.75	TS20
ATOM	51255	CD1	ILE	T	63	104.336	48.254	-24.070	1.00 52.75	TS20

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ATOM	51256	C	ILE	T	63	102.813	48.392	-19.252	1.00	65.93	TS20
ATOM	51257	O	ILE	T	63	103.453	48.673	-18.236	1.00	65.93	TS20
ATOM	51258	N	ASP	T	64	101.559	48.793	-19.437	1.00	69.07	TS20
ATOM	51259	CA	ASP	T	64	100.872	49.592	-18.421	1.00	69.07	TS20
ATOM	51260	CB	ASP	T	64	99.388	49.748	-18.775	1.00	127.66	TS20
ATOM	51261	CG	ASP	T	64	99.070	51.088	-19.420	1.00	127.66	TS20
ATOM	51262	OD1	ASP	T	64	99.379	52.140	-18.815	1.00	127.66	TS20
ATOM	51263	OD2	ASP	T	64	98.497	51.092	-20.529	1.00	127.66	TS20
ATOM	51264	C	ASP	T	64	100.991	48.963	-17.023	1.00	69.07	TS20
ATOM	51265	O	ASP	T	64	100.874	49.648	-16.001	1.00	69.07	TS20
ATOM	51266	N	LYS	T	65	101.212	47.652	-16.994	1.00	78.20	TS20
ATOM	51267	CA	LYS	T	65	101.341	46.917	-15.746	1.00	78.20	TS20
ATOM	51268	CB	LYS	T	65	101.045	45.443	-15.981	1.00	86.21	TS20
ATOM	51269	CG	LYS	T	65	99.629	45.203	-16.436	1.00	86.21	TS20
ATOM	51270	CD	LYS	T	65	99.232	43.771	-16.222	1.00	86.21	TS20
ATOM	51271	CE	LYS	T	65	97.729	43.644	-16.139	1.00	86.21	TS20
ATOM	51272	NZ	LYS	T	65	97.330	42.246	-15.813	1.00	86.21	TS20
ATOM	51273	C	LYS	T	65	102.728	47.074	-15.173	1.00	78.20	TS20
ATOM	51274	O	LYS	T	65	102.902	47.174	-13.964	1.00	78.20	TS20
ATOM	51275	N	ALA	T	66	103.723	47.074	-16.048	1.00	74.35	TS20
ATOM	51276	CA	ALA	T	66	105.091	47.255	-15.609	1.00	74.35	TS20
ATOM	51277	CB	ALA	T	66	106.020	47.204	-16.795	1.00	63.26	TS20
ATOM	51278	C	ALA	T	66	105.156	48.629	-14.946	1.00	74.35	TS20
ATOM	51279	O	ALA	T	66	105.922	48.848	-14.013	1.00	74.35	TS20
ATOM	51280	N	ALA	T	67	104.332	49.549	-15.436	1.00	84.93	TS20
ATOM	51281	CA	ALA	T	67	104.281	50.908	-14.900	1.00	84.93	TS20
ATOM	51282	CB	ALA	T	67	103.644	51.842	-15.899	1.00	68.90	TS20
ATOM	51283	C	ALA	T	67	103.505	50.965	-13.602	1.00	84.93	TS20
ATOM	51284	O	ALA	T	67	103.425	52.018	-12.968	1.00	84.93	TS20
ATOM	51285	N	LYS	T	68	102.911	49.834	-13.229	1.00	90.57	TS20
ATOM	51286	CA	LYS	T	68	102.147	49.738	-11.993	1.00	90.57	TS20
ATOM	51287	CB	LYS	T	68	101.304	48.455	-12.002	1.00	170.53	TS20
ATOM	51288	CG	LYS	T	68	99.978	48.570	-11.271	1.00	170.53	TS20
ATOM	51289	CD	LYS	T	68	99.143	49.702	-11.846	1.00	170.53	TS20
ATOM	51290	CE	LYS	T	68	97.935	50.009	-10.976	1.00	170.53	TS20
ATOM	51291	NZ	LYS	T	68	97.183	51.207	-11.461	1.00	170.53	TS20
ATOM	51292	C	LYS	T	68	103.210	49.697	-10.895	1.00	90.57	TS20
ATOM	51293	O	LYS	T	68	103.268	50.568	-10.020	1.00	90.57	TS20
ATOM	51294	N	GLY	T	69	104.064	48.682	-10.962	1.00	117.26	TS20
ATOM	51295	CA	GLY	T	69	105.136	48.571	-9.997	1.00	117.26	TS20
ATOM	51296	C	GLY	T	69	106.226	49.518	-10.455	1.00	117.26	TS20
ATOM	51297	O	GLY	T	69	106.071	50.195	-11.474	1.00	117.26	TS20
ATOM	51298	N	SER	T	70	107.334	49.568	-9.726	1.00	78.16	TS20
ATOM	51299	CA	SER	T	70	108.427	50.458	-10.094	1.00	78.16	TS20
ATOM	51300	CB	SER	T	70	109.281	50.779	-8.860	1.00	82.15	TS20
ATOM	51301	OG	SER	T	70	109.855	49.607	-8.294	1.00	82.15	TS20
ATOM	51302	C	SER	T	70	109.314	49.891	-11.205	1.00	78.16	TS20
ATOM	51303	O	SER	T	70	110.501	50.205	-11.270	1.00	78.16	TS20
ATOM	51304	N	THR	T	71	108.740	49.065	-12.076	1.00	76.48	TS20
ATOM	51305	CA	THR	T	71	109.494	48.465	-13.176	1.00	76.48	TS20
ATOM	51306	CB	THR	T	71	108.761	47.286	-13.799	1.00	66.89	TS20
ATOM	51307	OG1	THR	T	71	108.529	46.289	-12.798	1.00	66.89	TS20
ATOM	51308	CG2	THR	T	71	109.582	46.707	-14.951	1.00	66.89	TS20
ATOM	51309	C	THR	T	71	109.697	49.475	-14.276	1.00	76.48	TS20
ATOM	51310	O	THR	T	71	110.794	49.987	-14.462	1.00	76.48	TS20
ATOM	51311	N	LEU	T	72	108.631	49.737	-15.022	1.00	97.80	TS20
ATOM	51312	CA	LEU	T	72	108.679	50.704	-16.104	1.00	97.80	TS20
ATOM	51313	CB	LEU	T	72	107.575	50.452	-17.103	1.00	61.49	TS20
ATOM	51314	CG	LEU	T	72	108.033	49.710	-18.336	1.00	61.49	TS20
ATOM	51315	CD1	LEU	T	72	106.919	49.766	-19.384	1.00	61.49	TS20
ATOM	51316	CD2	LEU	T	72	109.313	50.344	-18.853	1.00	61.49	TS20
ATOM	51317	C	LEU	T	72	108.475	52.084	-15.549	1.00	97.80	TS20
ATOM	51318	O	LEU	T	72	109.304	52.976	-15.720	1.00	97.80	TS20
ATOM	51319	N	HIS	T	73	107.335	52.252	-14.898	1.00	77.27	TS20
ATOM	51320	CA	HIS	T	73	106.975	53.522	-14.297	1.00	77.27	TS20
ATOM	51321	CB	HIS	T	73	107.783	53.728	-13.008	1.00	121.84	TS20
ATOM	51322	CG	HIS	T	73	107.001	53.464	-11.759	1.00	121.84	TS20
ATOM	51323	CD2	HIS	T	73	107.244	53.794	-10.469	1.00	121.84	TS20
ATOM	51324	ND1	HIS	T	73	105.806	52.777	-11.761	1.00	121.84	TS20
ATOM	51325	CE1	HIS	T	73	105.344	52.697	-10.526	1.00	121.84	TS20
ATOM	51326	NE2	HIS	T	73	106.198	53.305	-9.723	1.00	121.84	TS20
ATOM	51327	C	HIS	T	73	107.091	54.769	-15.184	1.00	77.27	TS20
ATOM	51328	O	HIS	T	73	107.952	54.880	-16.056	1.00	77.27	TS20
ATOM	51329	N	LYS	T	74	106.179	55.699	-14.925	1.00	89.86	TS20
ATOM	51330	CA	LYS	T	74	106.130	56.974	-15.603	1.00	89.86	TS20
ATOM	51331	CB	LYS	T	74	107.523	57.644	-15.612	1.00	82.52	TS20
ATOM	51332	CG	LYS	T	74	108.415	57.378	-14.435	1.00	82.52	TS20

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ATOM	51333	CD	LYS	T	74	108.319	58.466	-13.406	1.00	82.52	TS20
ATOM	51334	CE	LYS	T	74	109.321	58.154	-12.295	1.00	82.52	TS20
ATOM	51335	NZ	LYS	T	74	109.352	59.090	-11.116	1.00	82.52	TS20
ATOM	51336	C	LYS	T	74	105.657	56.896	-17.039	1.00	89.86	TS20
ATOM	51337	O	LYS	T	74	104.772	56.124	-17.415	1.00	89.86	TS20
ATOM	51338	N	ASN	T	75	106.329	57.742	-17.811	1.00	100.18	TS20
ATOM	51339	CA	ASN	T	75	106.148	57.963	-19.226	1.00	100.18	TS20
ATOM	51340	CB	ASN	T	75	106.663	59.360	-19.539	1.00	86.37	TS20
ATOM	51341	CG	ASN	T	75	106.444	60.323	-18.373	1.00	86.37	TS20
ATOM	51342	OD1	ASN	T	75	105.310	60.549	-17.954	1.00	86.37	TS20
ATOM	51343	ND2	ASN	T	75	107.528	60.878	-17.838	1.00	86.37	TS20
ATOM	51344	C	ASN	T	75	106.928	56.920	-19.998	1.00	100.18	TS20
ATOM	51345	O	ASN	T	75	106.928	56.918	-21.228	1.00	100.18	TS20
ATOM	51346	N	ALA	T	76	107.620	56.048	-19.271	1.00	83.03	TS20
ATOM	51347	CA	ALA	T	76	108.368	54.979	-19.916	1.00	83.03	TS20
ATOM	51348	CB	ALA	T	76	109.057	54.112	-18.889	1.00	63.00	TS20
ATOM	51349	C	ALA	T	76	107.280	54.193	-20.619	1.00	83.03	TS20
ATOM	51350	O	ALA	T	76	107.378	53.920	-21.818	1.00	83.03	TS20
ATOM	51351	N	ALA	T	77	106.229	53.860	-19.861	1.00	70.65	TS20
ATOM	51352	CA	ALA	T	77	105.085	53.128	-20.390	1.00	70.65	TS20
ATOM	51353	CB	ALA	T	77	104.041	52.962	-19.311	1.00	113.81	TS20
ATOM	51354	C	ALA	T	77	104.514	53.929	-21.559	1.00	70.65	TS20
ATOM	51355	O	ALA	T	77	104.232	53.382	-22.638	1.00	70.65	TS20
ATOM	51356	N	ALA	T	78	104.360	55.234	-21.331	1.00	79.52	TS20
ATOM	51357	CA	ALA	T	78	103.840	56.153	-22.343	1.00	79.52	TS20
ATOM	51358	CB	ALA	T	78	103.949	57.599	-21.836	1.00	57.10	TS20
ATOM	51359	C	ALA	T	78	104.573	56.005	-23.683	1.00	79.52	TS20
ATOM	51360	O	ALA	T	78	103.944	55.759	-24.724	1.00	79.52	TS20
ATOM	51361	N	ARG	T	79	105.897	56.163	-23.653	1.00	67.53	TS20
ATOM	51362	CA	ARG	T	79	106.689	56.038	-24.864	1.00	67.53	TS20
ATOM	51363	CB	ARG	T	79	108.182	56.131	-24.571	1.00	82.51	TS20
ATOM	51364	CG	ARG	T	79	108.635	57.360	-23.833	1.00	82.51	TS20
ATOM	51365	CD	ARG	T	79	110.131	57.541	-24.029	1.00	82.51	TS20
ATOM	51366	NE	ARG	T	79	110.874	56.293	-23.848	1.00	82.51	TS20
ATOM	51367	CZ	ARG	T	79	111.492	55.939	-22.721	1.00	82.51	TS20
ATOM	51368	NH1	ARG	T	79	111.463	56.741	-21.656	1.00	82.51	TS20
ATOM	51369	NH2	ARG	T	79	112.156	54.782	-22.661	1.00	82.51	TS20
ATOM	51370	C	ARG	T	79	106.404	54.667	-25.436	1.00	67.53	TS20
ATOM	51371	O	ARG	T	79	105.833	54.537	-26.518	1.00	67.53	TS20
ATOM	51372	N	ARG	T	80	106.807	53.645	-24.690	1.00	86.38	TS20
ATOM	51373	CA	ARG	T	80	106.613	52.262	-25.097	1.00	86.38	TS20
ATOM	51374	CB	ARG	T	80	106.475	51.362	-23.875	1.00	103.09	TS20
ATOM	51375	CG	ARG	T	80	107.628	51.419	-22.910	1.00	103.09	TS20
ATOM	51376	CD	ARG	T	80	108.704	50.459	-23.282	1.00	103.09	TS20
ATOM	51377	NE	ARG	T	80	109.789	50.545	-22.324	1.00	103.09	TS20
ATOM	51378	CZ	ARG	T	80	110.854	49.758	-22.348	1.00	103.09	TS20
ATOM	51379	NH1	ARG	T	80	110.964	48.822	-23.287	1.00	103.09	TS20
ATOM	51380	NH2	ARG	T	80	111.814	49.914	-21.445	1.00	103.09	TS20
ATOM	51381	C	ARG	T	80	105.339	52.156	-25.899	1.00	86.38	TS20
ATOM	51382	O	ARG	T	80	105.356	51.748	-27.063	1.00	86.38	TS20
ATOM	51383	N	LYS	T	81	104.235	52.544	-25.267	1.00	73.54	TS20
ATOM	51384	CA	LYS	T	81	102.934	52.461	-25.908	1.00	73.54	TS20
ATOM	51385	CB	LYS	T	81	101.847	52.904	-24.936	1.00	78.98	TS20
ATOM	51386	CG	LYS	T	81	101.603	51.859	-23.865	1.00	78.98	TS20
ATOM	51387	CD	LYS	T	81	100.797	52.404	-22.715	1.00	78.98	TS20
ATOM	51388	CE	LYS	T	81	99.427	52.869	-23.162	1.00	78.98	TS20
ATOM	51389	NZ	LYS	T	81	98.647	53.415	-22.009	1.00	78.98	TS20
ATOM	51390	C	LYS	T	81	102.817	53.199	-27.226	1.00	73.54	TS20
ATOM	51391	O	LYS	T	81	102.435	52.598	-28.232	1.00	73.54	TS20
ATOM	51392	N	SER	T	82	103.154	54.483	-27.248	1.00	82.66	TS20
ATOM	51393	CA	SER	T	82	103.052	55.220	-28.501	1.00	82.66	TS20
ATOM	51394	CB	SER	T	82	103.332	56.704	-28.292	1.00	82.89	TS20
ATOM	51395	OG	SER	T	82	104.714	56.943	-28.198	1.00	82.89	TS20
ATOM	51396	C	SER	T	82	104.007	54.660	-29.557	1.00	82.66	TS20
ATOM	51397	O	SER	T	82	103.605	54.404	-30.684	1.00	82.66	TS20
ATOM	51398	N	ARG	T	83	105.270	54.467	-29.207	1.00	79.96	TS20
ATOM	51399	CA	ARG	T	83	106.211	53.924	-30.180	1.00	79.96	TS20
ATOM	51400	CB	ARG	T	83	107.582	53.700	-29.535	1.00	108.17	TS20
ATOM	51401	CG	ARG	T	83	108.423	54.951	-29.517	1.00	108.17	TS20
ATOM	51402	CD	ARG	T	83	109.639	54.830	-28.630	1.00	108.17	TS20
ATOM	51403	NE	ARG	T	83	110.416	56.068	-28.653	1.00	108.17	TS20
ATOM	51404	CZ	ARG	T	83	111.349	56.384	-27.762	1.00	108.17	TS20
ATOM	51405	NH1	ARG	T	83	111.628	55.551	-26.765	1.00	108.17	TS20
ATOM	51406	NH2	ARG	T	83	112.002	57.534	-27.867	1.00	108.17	TS20
ATOM	51407	C	ARG	T	83	105.679	52.614	-30.756	1.00	79.96	TS20
ATOM	51408	O	ARG	T	83	105.876	52.313	-31.939	1.00	79.96	TS20
ATOM	51409	N	LEU	T	84	104.988	51.846	-29.918	1.00	78.53	TS20

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ATOM	51410	CA	LEU	T	84	104.438	50.571	-30.342	1.00	78.53	TS20
ATOM	51411	CB	LEU	T	84	104.182	49.694	-29.110	1.00	63.32	TS20
ATOM	51412	CG	LEU	T	84	103.868	48.196	-29.264	1.00	63.32	TS20
ATOM	51413	CD1	LEU	T	84	102.382	47.998	-29.110	1.00	63.32	TS20
ATOM	51414	CD2	LEU	T	84	104.367	47.646	-30.607	1.00	63.32	TS20
ATOM	51415	C	LEU	T	84	103.160	50.776	-31.163	1.00	78.53	TS20
ATOM	51416	O	LEU	T	84	103.038	50.254	-32.272	1.00	78.53	TS20
ATOM	51417	N	MET	T	85	102.214	51.546	-30.635	1.00	103.13	TS20
ATOM	51418	CA	MET	T	85	100.973	51.798	-31.358	1.00	103.13	TS20
ATOM	51419	CB	MET	T	85	99.979	52.548	-30.479	1.00	93.34	TS20
ATOM	51420	CG	MET	T	85	99.280	51.674	-29.469	1.00	93.34	TS20
ATOM	51421	SD	MET	T	85	98.214	52.629	-28.389	1.00	93.34	TS20
ATOM	51422	CE	MET	T	85	96.912	53.005	-29.496	1.00	93.34	TS20
ATOM	51423	C	MET	T	85	101.230	52.606	-32.616	1.00	103.13	TS20
ATOM	51424	O	MET	T	85	100.400	52.642	-33.524	1.00	103.13	TS20
ATOM	51425	N	ARG	T	86	102.379	53.269	-32.664	1.00	91.38	TS20
ATOM	51426	CA	ARG	T	86	102.728	54.066	-33.826	1.00	91.38	TS20
ATOM	51427	CB	ARG	T	86	103.845	55.048	-33.478	1.00	112.41	TS20
ATOM	51428	CG	ARG	T	86	103.715	56.371	-34.194	1.00	112.41	TS20
ATOM	51429	CD	ARG	T	86	104.068	57.526	-33.289	1.00	112.41	TS20
ATOM	51430	NE	ARG	T	86	103.404	58.743	-33.743	1.00	112.41	TS20
ATOM	51431	CZ	ARG	T	86	103.399	59.894	-33.074	1.00	112.41	TS20
ATOM	51432	NH1	ARG	T	86	104.032	59.989	-31.912	1.00	112.41	TS20
ATOM	51433	NH2	ARG	T	86	102.751	60.949	-33.558	1.00	112.41	TS20
ATOM	51434	C	ARG	T	86	103.180	53.081	-34.888	1.00	91.38	TS20
ATOM	51435	O	ARG	T	86	102.541	52.946	-35.935	1.00	91.38	TS20
ATOM	51436	N	LYS	T	87	104.265	52.366	-34.605	1.00	71.11	TS20
ATOM	51437	CA	LYS	T	87	104.772	51.378	-35.548	1.00	71.11	TS20
ATOM	51438	CB	LYS	T	87	105.900	50.573	-34.916	1.00	115.01	TS20
ATOM	51439	CG	LYS	T	87	107.118	51.419	-34.658	1.00	115.01	TS20
ATOM	51440	CD	LYS	T	87	108.065	50.751	-33.698	1.00	115.01	TS20
ATOM	51441	CE	LYS	T	87	109.109	51.738	-33.202	1.00	115.01	TS20
ATOM	51442	NZ	LYS	T	87	109.897	51.143	-32.095	1.00	115.01	TS20
ATOM	51443	C	LYS	T	87	103.665	50.448	-36.023	1.00	71.11	TS20
ATOM	51444	O	LYS	T	87	103.432	50.328	-37.225	1.00	71.11	TS20
ATOM	51445	N	VAL	T	88	102.960	49.813	-35.091	1.00	82.44	TS20
ATOM	51446	CA	VAL	T	88	101.897	48.890	-35.477	1.00	82.44	TS20
ATOM	51447	CB	VAL	T	88	101.143	48.311	-34.260	1.00	90.62	TS20
ATOM	51448	CG1	VAL	T	88	100.033	47.381	-34.748	1.00	90.62	TS20
ATOM	51449	CG2	VAL	T	88	102.111	47.553	-33.346	1.00	90.62	TS20
ATOM	51450	C	VAL	T	88	100.866	49.489	-36.421	1.00	82.44	TS20
ATOM	51451	O	VAL	T	88	100.461	48.827	-37.380	1.00	82.44	TS20
ATOM	51452	N	ARG	T	89	100.431	50.721	-36.166	1.00	88.14	TS20
ATOM	51453	CA	ARG	T	89	99.441	51.312	-37.054	1.00	88.14	TS20
ATOM	51454	CB	ARG	T	89	98.777	52.546	-36.446	1.00	85.02	TS20
ATOM	51455	CG	ARG	T	89	97.814	53.173	-37.442	1.00	85.02	TS20
ATOM	51456	CD	ARG	T	89	97.170	54.442	-36.956	1.00	85.02	TS20
ATOM	51457	NE	ARG	T	89	96.019	54.202	-36.095	1.00	85.02	TS20
ATOM	51458	CZ	ARG	T	89	94.905	54.930	-36.130	1.00	85.02	TS20
ATOM	51459	NH1	ARG	T	89	94.795	55.935	-36.990	1.00	85.02	TS20
ATOM	51460	NH2	ARG	T	89	93.904	54.661	-35.303	1.00	85.02	TS20
ATOM	51461	C	ARG	T	89	100.056	51.692	-38.395	1.00	88.14	TS20
ATOM	51462	O	ARG	T	89	99.457	51.466	-39.455	1.00	88.14	TS20
ATOM	51463	N	GLN	T	90	101.248	52.274	-38.352	1.00	103.51	TS20
ATOM	51464	CA	GLN	T	90	101.914	52.660	-39.580	1.00	103.51	TS20
ATOM	51465	CB	GLN	T	90	103.242	53.337	-39.282	1.00	128.16	TS20
ATOM	51466	CG	GLN	T	90	103.086	54.740	-38.775	1.00	128.16	TS20
ATOM	51467	CD	GLN	T	90	104.417	55.397	-38.507	1.00	128.16	TS20
ATOM	51468	OE1	GLN	T	90	105.313	55.374	-39.356	1.00	128.16	TS20
ATOM	51469	NE2	GLN	T	90	104.557	55.997	-37.328	1.00	128.16	TS20
ATOM	51470	C	GLN	T	90	102.154	51.430	-40.430	1.00	103.51	TS20
ATOM	51471	O	GLN	T	90	101.743	51.380	-41.583	1.00	103.51	TS20
ATOM	51472	N	LEU	T	91	102.807	50.431	-39.852	1.00	74.43	TS20
ATOM	51473	CA	LEU	T	91	103.107	49.203	-40.574	1.00	74.43	TS20
ATOM	51474	CB	LEU	T	91	103.807	48.218	-39.650	1.00	78.78	TS20
ATOM	51475	CG	LEU	T	91	105.269	48.605	-39.451	1.00	78.78	TS20
ATOM	51476	CD1	LEU	T	91	105.717	48.257	-38.048	1.00	78.78	TS20
ATOM	51477	CD2	LEU	T	91	106.115	47.915	-40.514	1.00	78.78	TS20
ATOM	51478	C	LEU	T	91	101.885	48.558	-41.183	1.00	74.43	TS20
ATOM	51479	O	LEU	T	91	101.989	47.803	-42.153	1.00	74.43	TS20
ATOM	51480	N	LEU	T	92	100.721	48.853	-40.624	1.00	94.74	TS20
ATOM	51481	CA	LEU	T	92	99.510	48.276	-41.160	1.00	94.74	TS20
ATOM	51482	CB	LEU	T	92	98.412	48.287	-40.107	1.00	72.11	TS20
ATOM	51483	CG	LEU	T	92	98.589	47.086	-39.169	1.00	72.11	TS20
ATOM	51484	CD1	LEU	T	92	97.585	47.164	-38.022	1.00	72.11	TS20
ATOM	51485	CD2	LEU	T	92	98.429	45.775	-39.964	1.00	72.11	TS20
ATOM	51486	C	LEU	T	92	99.059	48.960	-42.440	1.00	94.74	TS20

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ATOM	51487	O	LEU	T	92	98.086	48.534	-43.062	1.00	94.74	TS20
ATOM	51488	N	GLU	T	93	99.769	50.018	-42.834	1.00	107.08	TS20
ATOM	51489	CA	GLU	T	93	99.464	50.732	-44.077	1.00	107.08	TS20
ATOM	51490	CB	GLU	T	93	100.074	52.140	-44.078	1.00	151.79	TS20
ATOM	51491	CG	GLU	T	93	99.633	53.035	-42.910	1.00	151.79	TS20
ATOM	51492	CD	GLU	T	93	98.122	53.247	-42.832	1.00	151.79	TS20
ATOM	51493	OE1	GLU	T	93	97.674	54.022	-41.956	1.00	151.79	TS20
ATOM	51494	OE2	GLU	T	93	97.384	52.643	-43.639	1.00	151.79	TS20
ATOM	51495	C	GLU	T	93	100.092	49.883	-45.177	1.00	107.08	TS20
ATOM	51496	O	GLU	T	93	101.204	50.134	-45.650	1.00	107.08	TS20
ATOM	51497	N	ALA	T	94	99.356	48.846	-45.543	1.00	110.24	TS20
ATOM	51498	CA	ALA	T	94	99.777	47.900	-46.549	1.00	110.24	TS20
ATOM	51499	CB	ALA	T	94	100.962	47.101	-46.029	1.00	74.62	TS20
ATOM	51500	C	ALA	T	94	98.576	46.988	-46.785	1.00	110.24	TS20
ATOM	51501	O	ALA	T	94	98.737	45.788	-47.016	1.00	110.24	TS20
ATOM	51502	N	ALA	T	95	97.381	47.587	-46.713	1.00	126.32	TS20
ATOM	51503	CA	ALA	T	95	96.077	46.922	-46.891	1.00	126.32	TS20
ATOM	51504	CB	ALA	T	95	96.189	45.718	-47.845	1.00	93.13	TS20
ATOM	51505	C	ALA	T	95	95.506	46.473	-45.544	1.00	126.32	TS20
ATOM	51506	O	ALA	T	95	94.565	45.674	-45.482	1.00	126.32	TS20
ATOM	51507	N	GLY	T	96	96.083	47.015	-44.475	1.00	87.92	TS20
ATOM	51508	CA	GLY	T	96	95.675	46.677	-43.126	1.00	87.92	TS20
ATOM	51509	C	GLY	T	96	94.186	46.580	-42.874	1.00	87.92	TS20
ATOM	51510	O	GLY	T	96	93.652	45.482	-42.673	1.00	87.92	TS20
ATOM	51511	N	ALA	T	97	93.504	47.718	-42.885	1.00	97.08	TS20
ATOM	51512	CA	ALA	T	97	92.080	47.705	-42.609	1.00	97.08	TS20
ATOM	51513	CB	ALA	T	97	91.358	46.860	-43.659	1.00	40.10	TS20
ATOM	51514	C	ALA	T	97	91.984	47.055	-41.223	1.00	97.08	TS20
ATOM	51515	O	ALA	T	97	91.470	45.943	-41.082	1.00	97.08	TS20
ATOM	51516	N	PRO	T	98	92.489	47.753	-40.181	1.00	137.45	TS20
ATOM	51517	CD	PRO	T	98	92.813	49.190	-40.230	1.00	94.58	TS20
ATOM	51518	CA	PRO	T	98	92.498	47.291	-38.788	1.00	137.45	TS20
ATOM	51519	CB	PRO	T	98	92.939	48.532	-38.007	1.00	94.58	TS20
ATOM	51520	CG	PRO	T	98	92.435	49.645	-38.831	1.00	94.58	TS20
ATOM	51521	C	PRO	T	98	91.191	46.719	-38.278	1.00	137.45	TS20
ATOM	51522	O	PRO	T	98	90.331	47.446	-37.782	1.00	137.45	TS20
ATOM	51523	N	LEU	T	99	91.063	45.403	-38.398	1.00	145.10	TS20
ATOM	51524	CA	LEU	T	99	89.873	44.701	-37.947	1.00	145.10	TS20
ATOM	51525	CB	LEU	T	99	90.020	43.202	-38.213	1.00	94.87	TS20
ATOM	51526	CG	LEU	T	99	90.365	42.841	-39.660	1.00	94.87	TS20
ATOM	51527	CD1	LEU	T	99	90.424	41.317	-39.815	1.00	94.87	TS20
ATOM	51528	CD2	LEU	T	99	89.323	43.462	-40.601	1.00	94.87	TS20
ATOM	51529	C	LEU	T	99	89.688	44.947	-36.457	1.00	145.10	TS20
ATOM	51530	O	LEU	T	99	89.051	45.919	-36.052	1.00	145.10	TS20
ATOM	51531	N	ILE	T	100	90.259	44.057	-35.651	1.00	120.06	TS20
ATOM	51532	CA	ILE	T	100	90.182	44.148	-34.195	1.00	120.06	TS20
ATOM	51533	CB	ILE	T	100	91.289	43.286	-33.542	1.00	189.24	TS20
ATOM	51534	CG2	ILE	T	100	91.282	43.468	-32.033	1.00	189.24	TS20
ATOM	51535	CG1	ILE	T	100	91.080	41.818	-33.914	1.00	189.24	TS20
ATOM	51536	CD1	ILE	T	100	92.188	40.915	-33.465	1.00	189.24	TS20
ATOM	51537	C	ILE	T	100	90.329	45.589	-33.711	1.00	120.06	TS20
ATOM	51538	O	ILE	T	100	89.672	46.006	-32.750	1.00	120.06	TS20
ATOM	51539	N	GLY	T	101	91.202	46.334	-34.384	1.00	198.84	TS20
ATOM	51540	CA	GLY	T	101	91.442	47.721	-34.034	1.00	198.84	TS20
ATOM	51541	C	GLY	T	101	91.478	47.960	-32.540	1.00	198.84	TS20
ATOM	51542	O	GLY	T	101	91.101	49.034	-32.076	1.00	198.84	TS20
ATOM	51543	N	GLY	T	102	91.923	46.959	-31.785	1.00	122.48	TS20
ATOM	51544	CA	GLY	T	102	91.990	47.108	-30.346	1.00	122.48	TS20
ATOM	51545	C	GLY	T	102	92.708	48.391	-29.965	1.00	122.48	TS20
ATOM	51546	O	GLY	T	102	92.110	49.470	-29.942	1.00	122.48	TS20
ATOM	51547	N	GLY	T	103	93.996	48.275	-29.657	1.00	182.75	TS20
ATOM	51548	CA	GLY	T	103	94.773	49.443	-29.294	1.00	182.75	TS20
ATOM	51549	C	GLY	T	103	94.927	50.344	-30.500	1.00	182.75	TS20
ATOM	51550	O	GLY	T	103	96.040	50.693	-30.891	1.00	182.75	TS20
ATOM	51551	N	LEU	T	104	93.798	50.706	-31.099	1.00	91.41	TS20
ATOM	51552	CA	LEU	T	104	93.776	51.571	-32.270	1.00	91.41	TS20
ATOM	51553	CB	LEU	T	104	94.080	50.793	-33.549	1.00	84.82	TS20
ATOM	51554	CG	LEU	T	104	95.552	50.501	-33.826	1.00	84.82	TS20
ATOM	51555	CD1	LEU	T	104	95.686	49.918	-35.223	1.00	84.82	TS20
ATOM	51556	CD2	LEU	T	104	96.369	51.779	-33.710	1.00	84.82	TS20
ATOM	51557	C	LEU	T	104	92.436	52.241	-32.428	1.00	91.41	TS20
ATOM	51558	O	LEU	T	104	91.437	51.605	-32.751	1.00	91.41	TS20
ATOM	51559	N	SER	T	105	92.432	53.541	-32.186	1.00	97.55	TS20
ATOM	51560	CA	SER	T	105	91.240	54.355	-32.308	1.00	97.55	TS20
ATOM	51561	CB	SER	T	105	91.435	55.644	-31.500	1.00	82.82	TS20
ATOM	51562	OG	SER	T	105	90.526	56.652	-31.870	1.00	82.82	TS20
ATOM	51563	C	SER	T	105	91.076	54.654	-33.790	1.00	97.55	TS20

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ATOM	51564	O	SER	T	105	91.709	55.565	-34.318	1.00	97.55	TS20
ATOM	51565	N	ALA	T	106	90.253	53.865	-34.471	1.00130.72		TS20
ATOM	51566	CA	ALA	T	106	90.037	54.080	-35.894	1.00130.72		TS20
ATOM	51567	CB	ALA	T	106	89.332	52.883	-36.525	1.00118.50		TS20
ATOM	51568	C	ALA	T	106	89.191	55.326	-36.046	1.00130.72		TS20
ATOM	51569	O	ALA	T	106	89.557	56.173	-36.889	1.00130.72		TS20
ATOM	51570	OXT	ALA	T	106	88.178	55.429	-35.314	1.00147.47		TS20
TER	51570		ALA	T	106						TS20
ATOM	51571	C	GLY	V	2	249.723	126.804	-1.742	1.00	94.23	VTHX
ATOM	51572	O	GLY	V	2	250.303	126.407	-0.728	1.00	94.23	VTHX
ATOM	51573	N	GLY	V	2	251.481	125.631	-3.043	1.00	94.23	VTHX
ATOM	51574	CA	GLY	V	2	250.405	126.679	-3.087	1.00	94.23	VTHX
ATOM	51575	N	LYS	V	3	248.503	127.343	-1.716	1.00	80.02	VTHX
ATOM	51576	CA	LYS	V	3	247.785	127.501	-0.452	1.00	80.02	VTHX
ATOM	51577	CB	LYS	V	3	246.288	127.729	-0.696	1.00	80.83	VTHX
ATOM	51578	CG	LYS	V	3	245.944	129.122	-1.206	1.00	80.83	VTHX
ATOM	51579	CD	LYS	V	3	244.463	129.240	-1.518	1.00	80.83	VTHX
ATOM	51580	CE	LYS	V	3	244.170	130.471	-2.368	1.00	80.83	VTHX
ATOM	51581	NZ	LYS	V	3	242.771	130.496	-2.923	1.00	80.83	VTHX
ATOM	51582	C	LYS	V	3	247.981	126.266	0.417	1.00	80.02	VTHX
ATOM	51583	O	LYS	V	3	247.985	126.342	1.644	1.00	80.02	VTHX
ATOM	51584	N	GLY	V	4	248.179	125.131	-0.235	1.00	60.44	VTHX
ATOM	51585	CA	GLY	V	4	248.353	123.895	0.490	1.00	60.44	VTHX
ATOM	51586	C	GLY	V	4	249.689	123.632	1.153	1.00	60.44	VTHX
ATOM	51587	O	GLY	V	4	249.717	122.913	2.142	1.00	60.44	VTHX
ATOM	51588	N	ASP	V	5	250.786	124.174	0.627	1.00	91.04	VTHX
ATOM	51589	CA	ASP	V	5	252.110	123.938	1.220	1.00	91.04	VTHX
ATOM	51590	CB	ASP	V	5	253.222	124.438	0.299	1.00128.39		VTHX
ATOM	51591	CG	ASP	V	5	254.598	123.987	0.758	1.00128.39		VTHX
ATOM	51592	OD1	ASP	V	5	254.846	123.976	1.985	1.00128.39		VTHX
ATOM	51593	OD2	ASP	V	5	255.433	123.649	-0.108	1.00128.39		VTHX
ATOM	51594	C	ASP	V	5	252.251	124.638	2.565	1.00	91.04	VTHX
ATOM	51595	O	ASP	V	5	252.518	125.841	2.618	1.00	91.04	VTHX
ATOM	51596	N	ARG	V	6	252.109	123.883	3.650	1.00129.54		VTHX
ATOM	51597	CA	ARG	V	6	252.186	124.489	4.963	1.00129.54		VTHX
ATOM	51598	CB	ARG	V	6	251.563	123.567	6.027	1.00134.60		VTHX
ATOM	51599	CG	ARG	V	6	252.439	122.446	6.541	1.00134.60		VTHX
ATOM	51600	CD	ARG	V	6	251.922	121.956	7.899	1.00134.60		VTHX
ATOM	51601	NE	ARG	V	6	252.882	121.126	8.633	1.00134.60		VTHX
ATOM	51602	CZ	ARG	V	6	252.800	120.837	9.934	1.00134.60		VTHX
ATOM	51603	NH1	ARG	V	6	251.795	121.310	10.668	1.00134.60		VTHX
ATOM	51604	NH2	ARG	V	6	253.730	120.079	10.507	1.00134.60		VTHX
ATOM	51605	C	ARG	V	6	253.579	124.946	5.391	1.00129.54		VTHX
ATOM	51606	O	ARG	V	6	253.819	125.149	6.575	1.00129.54		VTHX
ATOM	51607	N	ARG	V	7	254.499	125.118	4.444	1.00	83.40	VTHX
ATOM	51608	CA	ARG	V	7	255.832	125.601	4.801	1.00	83.40	VTHX
ATOM	51609	CB	ARG	V	7	256.818	124.442	5.034	1.00	87.18	VTHX
ATOM	51610	CG	ARG	V	7	257.324	123.764	3.787	1.00	87.18	VTHX
ATOM	51611	CD	ARG	V	7	258.714	123.167	4.006	1.00	87.18	VTHX
ATOM	51612	NE	ARG	V	7	258.681	121.802	4.524	1.00	87.18	VTHX
ATOM	51613	CZ	ARG	V	7	259.744	121.002	4.611	1.00	87.18	VTHX
ATOM	51614	NH1	ARG	V	7	260.944	121.427	4.219	1.00	87.18	VTHX
ATOM	51615	NH2	ARG	V	7	259.603	119.763	5.079	1.00	87.18	VTHX
ATOM	51616	C	ARG	V	7	256.397	126.588	3.774	1.00	83.40	VTHX
ATOM	51617	O	ARG	V	7	257.526	126.438	3.286	1.00	83.40	VTHX
ATOM	51618	N	THR	V	8	255.581	127.597	3.454	1.00	81.68	VTHX
ATOM	51619	CA	THR	V	8	255.934	128.686	2.530	1.00	81.68	VTHX
ATOM	51620	CB	THR	V	8	255.895	128.271	1.040	1.00	91.25	VTHX
ATOM	51621	OG1	THR	V	8	254.610	127.719	0.712	1.00	91.25	VTHX
ATOM	51622	CG2	THR	V	8	257.006	127.282	0.743	1.00	91.25	VTHX
ATOM	51623	C	THR	V	8	254.959	129.844	2.718	1.00	81.68	VTHX
ATOM	51624	O	THR	V	8	253.867	129.662	3.247	1.00	81.68	VTHX
ATOM	51625	N	ARG	V	9	255.360	131.028	2.271	1.00	88.83	VTHX
ATOM	51626	CA	ARG	V	9	254.549	132.235	2.405	1.00	88.83	VTHX
ATOM	51627	CB	ARG	V	9	254.869	133.200	1.259	1.00149.33		VTHX
ATOM	51628	CG	ARG	V	9	254.509	134.649	1.545	1.00149.33		VTHX
ATOM	51629	CD	ARG	V	9	255.270	135.166	2.751	1.00149.33		VTHX
ATOM	51630	NE	ARG	V	9	254.883	136.531	3.092	1.00149.33		VTHX
ATOM	51631	CZ	ARG	V	9	255.202	137.134	4.234	1.00149.33		VTHX
ATOM	51632	NH1	ARG	V	9	255.917	136.488	5.149	1.00149.33		VTHX
ATOM	51633	NH2	ARG	V	9	254.796	138.377	4.468	1.00149.33		VTHX
ATOM	51634	C	ARG	V	9	253.037	131.981	2.465	1.00	88.83	VTHX
ATOM	51635	O	ARG	V	9	252.432	132.067	3.541	1.00	88.83	VTHX
ATOM	51636	N	ARG	V	10	252.437	131.660	1.317	1.00	84.02	VTHX
ATOM	51637	CA	ARG	V	10	250.996	131.417	1.226	1.00	84.02	VTHX
ATOM	51638	CB	ARG	V	10	250.597	131.161	-0.226	1.00114.45		VTHX
ATOM	51639	CG	ARG	V	10	250.599	132.401	-1.083	1.00114.45		VTHX

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ATOM	51640	CD	ARG	V	10	250.254	132.047	-2.506	1.00114.45	VTHX
ATOM	51641	NE	ARG	V	10	250.206	133.218	-3.378	1.00114.45	VTHX
ATOM	51642	CZ	ARG	V	10	249.917	133.168	-4.678	1.00114.45	VTHX
ATOM	51643	NH1	ARG	V	10	249.652	132.001	-5.255	1.00114.45	VTHX
ATOM	51644	NH2	ARG	V	10	249.885	134.282	-5.402	1.00114.45	VTHX
ATOM	51645	C	ARG	V	10	250.482	130.283	2.103	1.00 84.02	VTHX
ATOM	51646	O	ARG	V	10	249.380	130.361	2.635	1.00 84.02	VTHX
ATOM	51647	N	GLY	V	11	251.270	129.226	2.250	1.00 82.18	VTHX
ATOM	51648	CA	GLY	V	11	250.838	128.119	3.084	1.00 82.18	VTHX
ATOM	51649	C	GLY	V	11	250.486	128.615	4.473	1.00 82.18	VTHX
ATOM	51650	O	GLY	V	11	249.397	128.363	4.989	1.00 82.18	VTHX
ATOM	51651	N	LYS	V	12	251.418	129.334	5.083	1.00 84.59	VTHX
ATOM	51652	CA	LYS	V	12	251.191	129.872	6.406	1.00 84.59	VTHX
ATOM	51653	CB	LYS	V	12	252.423	130.627	6.894	1.00 85.60	VTHX
ATOM	51654	CG	LYS	V	12	253.400	129.769	7.702	1.00 85.60	VTHX
ATOM	51655	CD	LYS	V	12	253.905	128.561	6.926	1.00 85.60	VTHX
ATOM	51656	CE	LYS	V	12	254.931	127.777	7.737	1.00 85.60	VTHX
ATOM	51657	NZ	LYS	V	12	254.390	127.240	9.024	1.00 85.60	VTHX
ATOM	51658	C	LYS	V	12	249.986	130.787	6.381	1.00 84.59	VTHX
ATOM	51659	O	LYS	V	12	249.075	130.606	7.177	1.00 84.59	VTHX
ATOM	51660	N	ILE	V	13	249.962	131.756	5.470	1.00 71.36	VTHX
ATOM	51661	CA	ILE	V	13	248.809	132.659	5.402	1.00 71.36	VTHX
ATOM	51662	CB	ILE	V	13	248.753	133.520	4.118	1.00 59.18	VTHX
ATOM	51663	CG2	ILE	V	13	247.567	134.476	4.214	1.00 59.18	VTHX
ATOM	51664	CG1	ILE	V	13	250.029	134.321	3.913	1.00 59.18	VTHX
ATOM	51665	CD1	ILE	V	13	249.960	135.200	2.676	1.00 59.18	VTHX
ATOM	51666	C	ILE	V	13	247.497	131.876	5.370	1.00 71.36	VTHX
ATOM	51667	O	ILE	V	13	246.589	132.101	6.176	1.00 71.36	VTHX
ATOM	51668	N	TRP	V	14	247.399	130.972	4.403	1.00 85.58	VTHX
ATOM	51669	CA	TRP	V	14	246.193	130.192	4.230	1.00 85.58	VTHX
ATOM	51670	CB	TRP	V	14	246.378	129.134	3.150	1.00 88.22	VTHX
ATOM	51671	CG	TRP	V	14	245.081	128.545	2.769	1.00 88.22	VTHX
ATOM	51672	CD2	TRP	V	14	244.533	127.318	3.248	1.00 88.22	VTHX
ATOM	51673	CE2	TRP	V	14	243.225	127.221	2.739	1.00 88.22	VTHX
ATOM	51674	CE3	TRP	V	14	245.020	126.292	4.064	1.00 88.22	VTHX
ATOM	51675	CD1	TRP	V	14	244.118	129.125	2.002	1.00 88.22	VTHX
ATOM	51676	NE1	TRP	V	14	242.998	128.338	1.979	1.00 88.22	VTHX
ATOM	51677	CZ2	TRP	V	14	242.392	126.138	3.020	1.00 88.22	VTHX
ATOM	51678	CZ3	TRP	V	14	244.194	125.216	4.343	1.00 88.22	VTHX
ATOM	51679	CH2	TRP	V	14	242.894	125.148	3.823	1.00 88.22	VTHX
ATOM	51680	C	TRP	V	14	245.803	129.527	5.521	1.00 85.58	VTHX
ATOM	51681	O	TRP	V	14	244.647	129.581	5.926	1.00 85.58	VTHX
ATOM	51682	N	ARG	V	15	246.768	128.891	6.168	1.00 83.96	VTHX
ATOM	51683	CA	ARG	V	15	246.488	128.231	7.428	1.00 83.96	VTHX
ATOM	51684	CB	ARG	V	15	247.484	127.112	7.677	1.00 84.69	VTHX
ATOM	51685	CG	ARG	V	15	247.033	125.778	7.158	1.00 84.69	VTHX
ATOM	51686	CD	ARG	V	15	248.030	124.778	7.609	1.00 84.69	VTHX
ATOM	51687	NE	ARG	V	15	247.584	123.399	7.498	1.00 84.69	VTHX
ATOM	51688	CZ	ARG	V	15	248.313	122.372	7.933	1.00 84.69	VTHX
ATOM	51689	NH1	ARG	V	15	249.500	122.593	8.492	1.00 84.69	VTHX
ATOM	51690	NH2	ARG	V	15	247.858	121.126	7.820	1.00 84.69	VTHX
ATOM	51691	C	ARG	V	15	246.521	129.222	8.581	1.00 83.96	VTHX
ATOM	51692	O	ARG	V	15	246.586	128.832	9.749	1.00 83.96	VTHX
ATOM	51693	N	GLY	V	16	246.469	130.504	8.241	1.00113.42	VTHX
ATOM	51694	CA	GLY	V	16	246.487	131.547	9.248	1.00113.42	VTHX
ATOM	51695	C	GLY	V	16	247.522	131.374	10.345	1.00113.42	VTHX
ATOM	51696	O	GLY	V	16	247.195	131.481	11.528	1.00113.42	VTHX
ATOM	51697	N	THR	V	17	248.765	131.088	9.972	1.00 75.00	VTHX
ATOM	51698	CA	THR	V	17	249.815	130.940	10.966	1.00 75.00	VTHX
ATOM	51699	CB	THR	V	17	250.267	129.468	11.173	1.00 76.10	VTHX
ATOM	51700	OG1	THR	V	17	250.863	128.972	9.972	1.00 76.10	VTHX
ATOM	51701	CG2	THR	V	17	249.103	128.594	11.560	1.00 76.10	VTHX
ATOM	51702	C	THR	V	17	251.042	131.729	10.558	1.00 75.00	VTHX
ATOM	51703	O	THR	V	17	251.094	132.340	9.487	1.00 75.00	VTHX
ATOM	51704	N	TYR	V	18	252.023	131.708	11.450	1.00 89.76	VTHX
ATOM	51705	CA	TYR	V	18	253.295	132.369	11.253	1.00 89.76	VTHX
ATOM	51706	CB	TYR	V	18	253.423	133.594	12.151	1.00 91.31	VTHX
ATOM	51707	CG	TYR	V	18	252.434	134.693	11.874	1.00 91.31	VTHX
ATOM	51708	CD1	TYR	V	18	251.189	134.701	12.491	1.00 91.31	VTHX
ATOM	51709	CE1	TYR	V	18	250.292	135.752	12.284	1.00 91.31	VTHX
ATOM	51710	CD2	TYR	V	18	252.765	135.757	11.030	1.00 91.31	VTHX
ATOM	51711	CE2	TYR	V	18	251.880	136.811	10.811	1.00 91.31	VTHX
ATOM	51712	CZ	TYR	V	18	250.643	136.807	11.446	1.00 91.31	VTHX
ATOM	51713	OH	TYR	V	18	249.768	137.865	11.275	1.00 91.31	VTHX
ATOM	51714	C	TYR	V	18	254.346	131.357	11.663	1.00 89.76	VTHX
ATOM	51715	O	TYR	V	18	254.112	130.528	12.546	1.00 89.76	VTHX
ATOM	51716	N	GLY	V	19	255.504	131.423	11.026	1.00 93.77	VTHX

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ATOM	51717	CA	GLY	V	19	256.570	130.502	11.356	1.00	93.77	VTHX
ATOM	51718	C	GLY	V	19	257.836	131.001	10.709	1.00	93.77	VTHX
ATOM	51719	O	GLY	V	19	257.982	132.200	10.460	1.00	93.77	VTHX
ATOM	51720	N	LYS	V	20	258.760	130.094	10.434	1.00105.16		VTHX
ATOM	51721	CA	LYS	V	20	259.980	130.522	9.797	1.00105.16		VTHX
ATOM	51722	CB	LYS	V	20	260.972	129.370	9.669	1.00	75.00	VTHX
ATOM	51723	CG	LYS	V	20	262.255	129.782	8.945	1.00	75.00	VTHX
ATOM	51724	CD	LYS	V	20	263.362	128.751	9.073	1.00	75.00	VTHX
ATOM	51725	CE	LYS	V	20	263.036	127.471	8.339	1.00	75.00	VTHX
ATOM	51726	NZ	LYS	V	20	264.089	126.474	8.630	1.00	75.00	VTHX
ATOM	51727	C	LYS	V	20	259.637	131.046	8.415	1.00105.16		VTHX
ATOM	51728	O	LYS	V	20	260.170	132.068	7.981	1.00105.16		VTHX
ATOM	51729	N	TYR	V	21	258.726	130.361	7.733	1.00	96.01	VTHX
ATOM	51730	CA	TYR	V	21	258.359	130.762	6.386	1.00	96.01	VTHX
ATOM	51731	CB	TYR	V	21	257.777	129.557	5.644	1.00	97.42	VTHX
ATOM	51732	CG	TYR	V	21	258.781	128.425	5.507	1.00	97.42	VTHX
ATOM	51733	CD1	TYR	V	21	258.931	127.466	6.520	1.00	97.42	VTHX
ATOM	51734	CE1	TYR	V	21	259.914	126.462	6.440	1.00	97.42	VTHX
ATOM	51735	CD2	TYR	V	21	259.635	128.354	4.401	1.00	97.42	VTHX
ATOM	51736	CE2	TYR	V	21	260.625	127.360	4.311	1.00	97.42	VTHX
ATOM	51737	CZ	TYR	V	21	260.764	126.418	5.335	1.00	97.42	VTHX
ATOM	51738	OH	TYR	V	21	261.766	125.466	5.263	1.00	97.42	VTHX
ATOM	51739	C	TYR	V	21	257.447	131.990	6.282	1.00	96.01	VTHX
ATOM	51740	O	TYR	V	21	257.258	132.550	5.200	1.00	96.01	VTHX
ATOM	51741	N	ARG	V	22	256.897	132.420	7.409	1.00130.15		VTHX
ATOM	51742	CA	ARG	V	22	256.049	133.607	7.444	1.00130.15		VTHX
ATOM	51743	CB	ARG	V	22	254.582	133.257	7.224	1.00	84.99	VTHX
ATOM	51744	CG	ARG	V	22	253.669	134.476	7.224	1.00	84.99	VTHX
ATOM	51745	CD	ARG	V	22	252.218	134.090	7.500	1.00	84.99	VTHX
ATOM	51746	NE	ARG	V	22	251.321	135.235	7.382	1.00	84.99	VTHX
ATOM	51747	CZ	ARG	V	22	250.050	135.241	7.774	1.00	84.99	VTHX
ATOM	51748	NH1	ARG	V	22	249.508	134.154	8.322	1.00	84.99	VTHX
ATOM	51749	NH2	ARG	V	22	249.321	136.339	7.609	1.00	84.99	VTHX
ATOM	51750	C	ARG	V	22	256.228	134.179	8.834	1.00130.15		VTHX
ATOM	51751	O	ARG	V	22	255.456	133.891	9.747	1.00130.15		VTHX
ATOM	51752	N	PRO	V	23	257.265	134.995	9.013	1.00118.19		VTHX
ATOM	51753	CD	PRO	V	23	258.206	135.393	7.957	1.00109.35		VTHX
ATOM	51754	CA	PRO	V	23	257.605	135.636	10.287	1.00118.19		VTHX
ATOM	51755	CB	PRO	V	23	258.950	136.295	9.991	1.00109.35		VTHX
ATOM	51756	CG	PRO	V	23	259.454	135.567	8.736	1.00109.35		VTHX
ATOM	51757	C	PRO	V	23	256.564	136.658	10.720	1.00118.19		VTHX
ATOM	51758	O	PRO	V	23	255.648	136.974	9.963	1.00118.19		VTHX
ATOM	51759	N	ARG	V	24	256.703	137.169	11.939	1.00	94.56	VTHX
ATOM	51760	CA	ARG	V	24	255.783	138.186	12.436	1.00	94.56	VTHX
ATOM	51761	CB	ARG	V	24	255.763	138.200	13.963	1.00115.67		VTHX
ATOM	51762	CG	ARG	V	24	255.015	137.049	14.579	1.00115.67		VTHX
ATOM	51763	CD	ARG	V	24	253.571	137.039	14.122	1.00115.67		VTHX
ATOM	51764	NE	ARG	V	24	252.862	135.900	14.691	1.00115.67		VTHX
ATOM	51765	CZ	ARG	V	24	252.302	135.894	15.895	1.00115.67		VTHX
ATOM	51766	NH1	ARG	V	24	252.360	136.982	16.653	1.00115.67		VTHX
ATOM	51767	NH2	ARG	V	24	251.711	134.793	16.348	1.00115.67		VTHX
ATOM	51768	C	ARG	V	24	256.214	139.557	11.919	1.00	94.56	VTHX
ATOM	51769	O	ARG	V	24	255.377	140.440	11.730	1.00	94.56	VTHX
ATOM	51770	N	LYS	V	25	257.526	139.706	11.704	1.00148.03		VTHX
ATOM	51771	CA	LYS	V	25	258.187	140.921	11.192	1.00148.03		VTHX
ATOM	51772	CB	LYS	V	25	257.268	142.149	11.232	1.00138.54		VTHX
ATOM	51773	CG	LYS	V	25	256.506	142.389	9.935	1.00138.54		VTHX
ATOM	51774	CD	LYS	V	25	255.796	143.733	9.946	1.00138.54		VTHX
ATOM	51775	CE	LYS	V	25	255.122	144.008	8.611	1.00138.54		VTHX
ATOM	51776	NZ	LYS	V	25	254.507	145.366	8.564	1.00138.54		VTHX
ATOM	51777	C	LYS	V	25	259.475	141.255	11.939	1.00148.03		VTHX
ATOM	51778	O	LYS	V	25	259.838	140.498	12.865	1.00148.03		VTHX
ATOM	51779	OXT	LYS	V	25	260.106	142.273	11.580	1.00167.47		VTHX
TER	51779		LYS	V	25						VTHX
ATOM	51780	C1	HYG	W	1	196.630	92.479	-14.468	1.00	41.78	WHYG
ATOM	51781	C2	HYG	W	1	195.640	91.453	-15.126	1.00	41.78	WHYG
ATOM	51782	C3	HYG	W	1	194.633	90.921	-14.041	1.00	41.78	WHYG
ATOM	51783	C4	HYG	W	1	195.397	90.236	-12.846	1.00	41.78	WHYG
ATOM	51784	C5	HYG	W	1	196.409	91.225	-12.211	1.00	41.78	WHYG
ATOM	51785	C6	HYG	W	1	197.419	91.736	-13.282	1.00	41.78	WHYG
ATOM	51786	N7	HYG	W	1	194.878	92.098	-16.236	1.00	41.78	WHYG
ATOM	51787	O8	HYG	W	1	197.570	92.997	-15.460	1.00	41.78	WHYG
ATOM	51788	N9	HYG	W	1	194.404	89.710	-11.785	1.00	41.78	WHYG
ATOM	51789	C10	HYG	W	1	194.017	90.663	-10.650	1.00	41.78	WHYG
ATOM	51790	O11	HYG	W	1	197.102	90.562	-11.140	1.00	41.78	WHYG
ATOM	51791	C12	HYG	W	1	199.042	94.802	-13.200	1.00	41.78	WHYG
ATOM	51792	C13	HYG	W	1	198.145	93.971	-12.309	1.00	41.78	WHYG

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ATOM	51793	O14	HYG	W	1	196.756	94.347	-12.596	1.00	41.78	WHYG
ATOM	51794	C15	HYG	W	1	196.383	95.762	-12.392	1.00	41.78	WHYG
ATOM	51795	C16	HYG	W	1	197.432	96.613	-13.198	1.00	41.78	WHYG
ATOM	51796	C17	HYG	W	1	198.905	96.287	-12.942	1.00	41.78	WHYG
ATOM	51797	O18	HYG	W	1	198.445	92.568	-12.626	1.00	41.78	WHYG
ATOM	51798	C19	HYG	W	1	194.920	95.977	-12.972	1.00	41.78	WHYG
ATOM	51799	O20	HYG	W	1	194.699	95.130	-14.172	1.00	41.78	WHYG
ATOM	51800	O21	HYG	W	1	197.048	97.529	-14.245	1.00	41.78	WHYG
ATOM	51801	O22	HYG	W	1	199.855	96.818	-13.871	1.00	41.78	WHYG
ATOM	51802	C23	HYG	W	1	200.827	95.689	-13.981	1.00	41.78	WHYG
ATOM	51803	C24	HYG	W	1	200.771	95.228	-15.570	1.00	41.78	WHYG
ATOM	51804	C25	HYG	W	1	201.785	94.057	-15.843	1.00	41.78	WHYG
ATOM	51805	C26	HYG	W	1	203.238	94.627	-15.502	1.00	41.78	WHYG
ATOM	51806	C27	HYG	W	1	203.369	95.279	-14.031	1.00	41.78	WHYG
ATOM	51807	O28	HYG	W	1	202.198	96.104	-13.569	1.00	41.78	WHYG
ATOM	51808	O29	HYG	W	1	200.400	94.628	-13.063	1.00	41.78	WHYG
ATOM	51809	O30	HYG	W	1	199.384	94.813	-15.921	1.00	41.78	WHYG
ATOM	51810	O31	HYG	W	1	201.448	92.945	-14.974	1.00	41.78	WHYG
ATOM	51811	O32	HYG	W	1	203.529	95.692	-16.446	1.00	41.78	WHYG
ATOM	51812	C33	HYG	W	1	203.881	94.181	-12.973	1.00	41.78	WHYG
ATOM	51813	C34	HYG	W	1	203.071	94.133	-11.649	1.00	41.78	WHYG
ATOM	51814	O35	HYG	W	1	201.999	93.211	-11.804	1.00	41.78	WHYG
ATOM	51815	N36	HYG	W	1	205.327	94.458	-12.629	1.00	41.78	WHYG
TER	51815		HYG	W	1						WHYG
HETATM51816	MG	MG	U	10		189.577	87.778	18.602	0.76	58.16	UION
HETATM51817	MG	MG	U	23		236.540	114.033	-7.148	1.28	58.16	UION
HETATM51818	MG	MG	U	24		229.332	112.064	13.245	1.33	58.16	UION
HETATM51819	MG	MG	U	27		165.489	106.065	-5.218	1.07	58.16	UION
HETATM51820	MG	MG	U	32		158.547	113.727	-63.651	0.81	58.16	UION
HETATM51821	MG	MG	U	34		173.664	113.625	-2.110	0.62	58.16	UION
HETATM51822	MG	MG	U	42		114.877	64.835	18.490	1.18	58.16	UION
HETATM51823	MG	MG	U	45		134.099	123.949	-57.717	0.92	58.16	UION
HETATM51824	MG	MG	U	48		171.599	94.525	-49.302	1.68	58.16	UION
HETATM51825	MG	MG	U	49		178.439	94.604	-52.414	1.43	58.16	UION
HETATM51826	MG	MG	U	50		180.656	86.950	-56.162	1.29	58.16	UION
HETATM51827	MG	MG	U	53		199.590	97.954	-53.727	0.76	58.16	UION
HETATM51828	MG	MG	U	54		163.169	106.153	-38.152	1.72	58.16	UION
HETATM51829	MG	MG	U	55		159.996	128.026	-44.801	1.32	58.16	UION
HETATM51830	MG	MG	U	59		167.306	109.695	17.127	1.45	58.16	UION
HETATM51831	MG	MG	U	60		150.928	100.141	-8.988	1.16	58.16	UION
HETATM51832	MG	MG	U	61		180.698	108.972	-2.019	1.21	58.16	UION
HETATM51833	MG	MG	U	63		159.733	106.205	-16.169	1.61	58.16	UION
HETATM51834	MG	MG	U	65		118.220	102.297	-26.008	1.30	58.16	UION
HETATM51835	MG	MG	U	68		166.480	127.165	-31.524	1.06	58.16	UION
HETATM51836	MG	MG	U	70		158.202	115.993	-15.729	1.05	58.16	UION
HETATM51837	MG	MG	U	71		161.597	131.763	-22.823	1.08	58.16	UION
HETATM51838	MG	MG	U	73		169.054	90.698	-12.301	1.25	58.16	UION
HETATM51839	MG	MG	U	75		223.519	127.032	-21.050	1.49	58.16	UION
HETATM51840	MG	MG	U	76		218.110	137.013	-12.773	1.25	58.16	UION
HETATM51841	MG	MG	U	77		220.693	132.081	-11.620	0.38	58.16	UION
HETATM51842	MG	MG	U	78		219.931	125.759	-13.500	0.88	58.16	UION
HETATM51843	MG	MG	U	79		233.443	139.647	-2.803	1.28	58.16	UION
HETATM51844	MG	MG	U	81		167.180	131.934	-7.239	1.00	58.16	UION
HETATM51845	MG	MG	U	82		125.309	96.949	26.544	1.43	58.16	UION
HETATM51846	MG	MG	U	86		130.614	111.973	-36.467	1.38	58.16	UION
HETATM51847	MG	MG	U	87		126.558	118.849	-56.013	0.79	58.16	UION
HETATM51848	MG	MG	U	90		210.149	110.730	10.489	1.51	58.16	UION
HETATM51849	MG	MG	U	91		231.823	110.734	24.835	0.85	58.16	UION
HETATM51850	MG	MG	U	92		234.146	122.636	26.291	1.18	58.16	UION
HETATM51851	MG	MG	U	95		202.959	116.217	9.976	1.31	58.16	UION
HETATM51852	MG	MG	U	96		204.008	111.744	7.902	1.34	58.16	UION
HETATM51853	MG	MG	U	113		148.191	102.994	-3.929	1.50	58.16	UION
HETATM51854	MG	MG	U	114		114.771	51.728	-12.000	1.15	58.16	UION
HETATM51855	MG	MG	U	115		192.387	107.546	-8.427	0.69	58.16	UION
HETATM51856	MG	MG	U	116		195.626	106.188	-7.186	0.54	58.16	UION
HETATM51857	MG	MG	U	117		187.627	101.595	22.358	1.01	58.16	UION
HETATM51858	MG	MG	U	118		169.311	104.796	-25.512	1.66	58.16	UION
HETATM51859	MG	MG	U	126		168.855	74.752	-42.885	0.60	58.16	UION
HETATM51860	MG	MG	U	130		205.243	144.161	0.122	1.34	58.16	UION
HETATM51861	MG	MG	U	132		171.629	125.267	-16.254	1.04	58.16	UION
HETATM51862	MG	MG	U	133		197.993	137.147	-14.415	1.25	58.16	UION
HETATM51863	MG	MG	U	134		194.919	144.841	-5.924	1.01	58.16	UION
HETATM51864	MG	MG	U	136		144.984	73.309	-19.620	0.90	58.16	UION
HETATM51865	MG	MG	U	149		187.191	103.690	-42.523	1.09	58.16	UION
HETATM51866	MG	MG	U	150		185.975	96.812	-38.858	1.04	58.16	UION
HETATM51867	MG	MG	U	151		193.188	101.889	-30.966	1.36	58.16	UION
HETATM51868	MG	MG	U	152		197.089	103.016	-26.511	1.55	58.16	UION

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